



POWER
ELECTRONICS
CAPACITORS

LNK
SERIES

DC Applications
Metallized Polypropylene Film
Self Healing

Company profile

OUR MISSION:

“Develop and supply high-quality capacitors, providing all the customers with full assistance from the design through the delivery.

We will take care to any particular needs that the customer may have.”

Established in 1946, ICAR has rapidly reached, and since then maintained, a leadership position in the research and development of new capacitors and components of which capacitors are key parts.

In the early 60's, first in the world, ICAR started the production of metallized polypropylene film capacitors, by developing the film metallization by its own.

ICAR group nowadays controls all the manufacturing phases of the capacitor: from the polypropylene film extrusion through its metallization, to the production of the finished capacitor.

The know-how accrued in almost 70 years of metallized film production, has enabled ICAR to bring to the market innovative products.

Today ICAR Group is a leader in the production of capacitors, both for power electronics applications and for low and medium voltage power factor correction.

ICAR Group today offers a wide range of products, all manufactured at its 6 plants located in Europe, that includes:

- Power electronics and special capacitors
- Lighting capacitors
- Motor run capacitors
- Power Factor Correction capacitors and Systems
- L.V. and M.V. voltage stabilizers
- Transformers and chokes.

ICAR: products and solutions

For details of the individual families, download the full catalogs on the web site, www.icar.com. Here are all the equipment and the solutions ICAR proposes.



Bank for power factor correction



Capacitors and MT power factor correction systems



Power electronics capacitors



Active filters



LV voltage stabilizers



EMI RFI filters



Motor run capacitors



Capacitors for energy storage and rapid discharge



Lighting capacitors



Reactors and LV/LV special transformers

Quality policy

ICAR, a synonym for capacitor since 1946, has always considered the quality and the effectiveness of its internal processes as a key-factor in the company strategy.

The compliance with International Standards has always been kept as a fundamental reference for offering products and processes which completely match customers' requirements and expectations. ICAR Quality System is certified according to EN ISO 9001:2008 standard and for the products used in railways applications according to IRIS standard.

ICAR representatives are members of the most important international standard committees, in charge for issuing the reference standards for the capacitor industry.

In order to comply with the international regulations and with the most severe customers acceptance criteria, products are submitted to tests both in the internal laboratories and in the most important internationally recognized laboratories.



Selection rules and definitions

SELECTION RULES

VOLTAGE

Select a capacitor with surge peak voltage (U_S), rated voltage (U_N) and max ripple voltage (U_{rms}) higher than the operating ones.

Consider that:

- Rated DC voltage of the capacitor (U_N) shall be higher than the sum of operating dc voltage + operating ripple peak voltage
- Rms ripple voltage shall be lower than 10% of the rated voltage U_N , and it shall not exceed 150V_{rms}

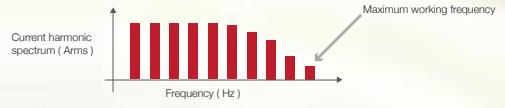
It is possible, within certain limits, to work above the rated voltage but this reduces the expected life of the capacitor.

CURRENT

Select a capacitor with maximum current I_{max} , higher than the operating current I_{rms}

Consider that:

- A thermal check shall be performed (see below) in order to verify that the chosen capacitor does not exceed the max operating temperature at operating I_{rms}
- For each series the I_{max} has been calculated considering a well defined $\theta_h - \theta_0$. The dielectric losses ($Q \tan \delta_0$) have been considered negligible and the harmonic spectrum is supposed to be made of different frequency components ending up to the specified maximum working frequency. I_{max} should not be considered totally concentrated at the maximum working frequency.



THERMAL CHECK

Double check the expected working temperature of the capacitor in your application.

Consider that:

the hot spot temperature can be estimated as follows:

$$\theta_h = R_{th} * P + \theta_0$$

the total dissipated power can be calculated as follows:

$$P = Q \tan \delta_0 + R_s I_{rms}^2$$

During stationary operation θ_h must not exceed the maximum hot spot temperature given in this catalogue for each families of capacitors.

WARNING

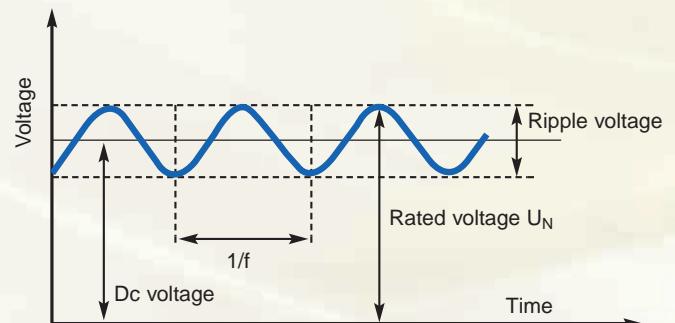
The thermal check is based on the hypothesis that the heat generated into the capacitor is transmitted to the environment through the case surface. Possible localised overheating (poor connections, hot components in the nearby as other capacitors, operation with high harmonics frequency etc.) would bring the capacitor to a dramatic failure or to a reduction of the expected life.

Special tests by means of thermocouples should be performed to be sure that the maximum hot spot temperature is not exceeded even under the most critical ambient circumstances. Capacitors with thermocouples can be supplied on request.

DEFINITIONS

| | | | |
|--------------------------|---|-----------------------|--|
| C_N | Rated Capacitance measured at 20°C | R_{th} | Thermal resistance between the hot-spot in the winding and the environment (natural cooling), so that: $P=(\vartheta_h - \vartheta_0)/R_{th}$ |
| U_N | Maximum operating peak voltage of either polarity of a non reversing type waveform for which the capacitor has been designed for continuous operation | | In case of forced air cooling the thermal resistance will be reduced of 20%. |
| U_{rms} | Rated rms ripple voltage = $0.1 \times U_N$ max (max 150 V _{rms}) | | R _{th} is a global parameter that doesn't consider localized overheating due to high frequency current |
| U_s | Surge (not repetitive) peak voltage | ϑ_h | Hottest point in the capacitor winding $= R_{th} \times P + \vartheta_0$ |
| U_i | Rated insulation voltage. Rms value of the AC voltage for which the terminal to case insulation has been designed and tested | ϑ₀ | Operating ambient temperature. It is the air temperature measured under steady conditions at 0,1m from the capacitor case and at two-thirds of the height from its base |
| I_{MAX} | Maximum rms current value for continuous operation | T_c | Temperature coefficient of capacitance. The coefficient is equal to -260 ppm/°C |
| Clearance | Shortest distance in air between terminals conducting parts or between terminal and case | L_n | Expected life at rated voltage U _N and hot-spot temperature of 70°C |
| Creepage | Shortest distance along an insulated surface between terminals conducting parts or between terminal and case | L | Expected life at the actual working conditions |
| Q | Reactive power = $2 \times \pi \times f \times C \times U_{rms}^2$ | L_s | Self inductance of the capacitor. It is due to the internal connections, terminals, winding characteristics and physical dimensions |
| f | Frequency of the ripple voltage | λ | Failure rate (FIT) = $10^9 \times \text{failures/component} \times \text{hour}$ |
| R_s | Series resistance representing the sum of all ohmic resistances in the capacitor. Rs is a typical estimated value based on average film metallization parameters | | |
| ESR | Equivalent Series Resistance defined as $ESR = R_s + \tan \delta_0 / (2 \times \pi \times f \times C)$ | | |
| tan δ₀ | Dielectric dissipation factor. It can be considered constant in the normal working frequency range. Typical value for polypropylene is 2×10^{-4} | | |
| tan δ | Dissipation factor calculated as follows: $\tan \delta_0 + 2 \times \pi \times f \times C \times R_s$ | | |
| dv/dt | Maximum slope of the voltage waveform | | |
| I_{PK} | Peak current $I_{PK} = C \frac{dv}{dt}$ | | |
| P | Active power (losses)= $Q \times \tan \delta_0 + R_s \times I_{rms}^2$ | | |

Graphical meaning of rated voltage U_N and peak to peak ripple voltage



The maximum allowed rms ripple voltage has to be lower than 10% of the rated voltage U_N (max 150V_{rms})

Technical Information

Ratings

Capacitance tolerance: $\pm 10\%$, $\pm 5\%$ on request
Useful life: 100.000 hrs at 70°C hot-spot and U_N

Application

Expressly designed for operation with direct voltage

Environmental conditions

Operating temperature

ϑ_{min} = -25°C or -40°C depending on the capacitors model
 ϑ_{max} = 70°C or 80°C depending on the capacitors model

ϑ_{max} temperature of the hottest point on the case at which the capacitor may operate

ϑ_{min} minimum operating ambient temperature at which the capacitor may operate

Storage temperature

ϑ_{smin} = -40°C, ϑ_{smax} = +85°C

ϑ_{smax} maximum ambient temperature at which the capacitor may be continuously maintained non-operating

ϑ_{smin} minimum ambient temperature at which the capacitor may be continuously maintained non-operating

Humidity class

Class F Max relative humidity: 75% annual on average, 95% 30 days per year, condensation not permitted

Design

The capacitor consists of metalized polypropylene windings filled with dry resin.

This technology gives many advantages:

- High DC voltage load capability
- High specific ratio capacitance to volume
- High capability to withstand surge currents
- Very good self healing characteristics

Case material and resin

- Self extinguishing in accordance to UL 94 V0

UL Approval

Capacitors families identified with simbol  are UL approved:
UL file E191589



Environmental Compatibility

LNK series do not contain PCB and is manufactured in accordance to RoHS restrictions

Protection against accidental contact

All the capacitors are NOT protected against accidental contact

Discharge

All the capacitors are NOT provided with internal/external discharge device

Type of protection

Unprotected: no presence of overpressure disconnector/detector

Assembly/Cooling

The useful life of a capacitor can be dramatically reduced if exposed to excessive heat. In general, an increase in the ambient temperature of 7°C will halve the expected lifetime. Capacitors must be allowed to cool and should be shielded from external heat sources. Special tests by means of thermocouples should be conducted to be sure that the maximum hot spot temperature is not exceeded even under the most critical ambient circumstances. Capacitors shall not be placed near to heat source and a minimum clearance of 20mm between the capacitors shall be maintained

Overvoltages according to IEC 61071

| Overvoltage | Maximum duration |
|-------------------|--|
| $1,1 \times U_N$ | 30% of on load duration |
| $1,15 \times U_N$ | 30 min / day |
| $1,2 \times U_N$ | 5 min / day |
| $1,3 \times U_N$ | 1 min /day |
| $1,5 \times U_N$ | 30 ms, no more than 1000 times in the lifetime |

Mounting position

LNK capacitors shown in this catalogue can operate in any position without restrictions

Failure criteria

Capacitors are considered failed when one of the following conditions happens:

- a. short circuit
- b. open circuit
- c. capacitance reduction higher than 5% of the initial value
- d. $\tan \delta$ increase over 3 times the initial value

Please contact ICAR Tech. Dept. in case of doubt

Routine dielectric tests

The performed tests before delivery are the following:

- capacitance and $\tan \delta$ measurement
- D.C. voltage test between terminals ($1.5 U_N$ for 10s)
- A.C. voltage test between terminals and case
 $1.414 \times U_N + 1000V$ for 10s but not less than 2000 V

Risk of Explosion and Fire

Capacitors consist mainly of polypropylene film.

The film may ignite as a result of internal fault or external overload. Appropriate measures should be ensured to avoid any risk of hazard in the event of failure.

FIRE LOAD: 46MJ/kg

EXTINGUISH WITH: solid extinguish agent, CO₂, foam

Reference standard

IEC 61071

Storage and handling

We suggest not to keep the capacitors stored for more than 6 years.

After 1 years of storage, we recommend before energizing a preliminary measurement of capacitance and dissipation factor.

Polypropylene film capacitors do not need to be energized before using (polypropylene film capacitor do not need reforming process as for electrolytic one).

Storage condition to be respected are the following:

- Relative humidity: 75% annual on average
- Maximum relative humidity: 95%, 30 days per year
- Condensation: not permitted
- Minimum storage temperature: -40°C
- Maximum storage temperature: +85°C

Capacitors shall be stored indoors packed.

Do not store capacitors in corrosive atmosphere (as example it is not allowed the presence of chloride and sulphide gas, acid, alkali, salt or equivalent substances).

Move packed capacitors with care, especially when using a fork lift truck. Do not strain connectors.

The theoretical expected life time curves given in "Operating Life pag.7" are not applicable after 2 years storage

Maintenance

Before any operation, disconnect the capacitor or the bank, wait 5 minutes, short-circuit and earth the terminals.

Do not touch any capacitor terminal if not previously short circuited and earthed.

Periodical checks and inspections are required to ensure reliable operations: disregarding the following basic maintenance rules may result in severe operation, bursting and fire.

Two weeks after installation

- current measurement in the capacitors and comparison with the nominal one. In case of difference from the nominal value, check the capacitors and the application where they are installed
- check the tightness of the connection and terminals. This operation is always required before the start up.

Periodically* (at least every year)

- visual inspection in order to check mechanical deformation;
- clean the bushings and terminal boards to avoid short circuit due to dust or contaminants
- check the temperature in the cabinet where the capacitors are installed. An increase of temperature could be an indication of reduced efficiency of the cooling systems due to dust and other contaminants
- current measurement in the capacitors and comparison with the nominal one. In case of difference from the nominal value, check the application where they are installed
- check the surface temperature of energized capacitors. In case of excessive temperature is recommended to replace the capacitor. This could be due to an increase of loss angle which is an indication of reached end of life
- check the tightness of the connection and terminals
- perform a C and $\tan \delta$ measurement. In case of capacitance reduction higher than 3% of the initial value or in case of $\tan \delta$ increase over 3 times the initial value, capacitors shall be replaced.

* maintenance schedule has to be established according to the specific operating conditions (for instance, in a polluted environment cleaning should be more frequent) and to the total safety requirement of the whole equipment where they are installed.

Operating Life

The lifetime of a capacitor depends on the hot spot temperature and on the field strength in its dielectric during operation. The capacitors have been designed for an average probable service life of 100.000hrs at rated duty (voltage, temperature and frequency).

Lifetime is a statistical value calculated on the basis of experience and on theoretical evaluations.

It does not have an absolute value and it is not possible to transfer automatically data coming from a limited quantity of capacitors to a whole population or even to a single batch of capacitors.

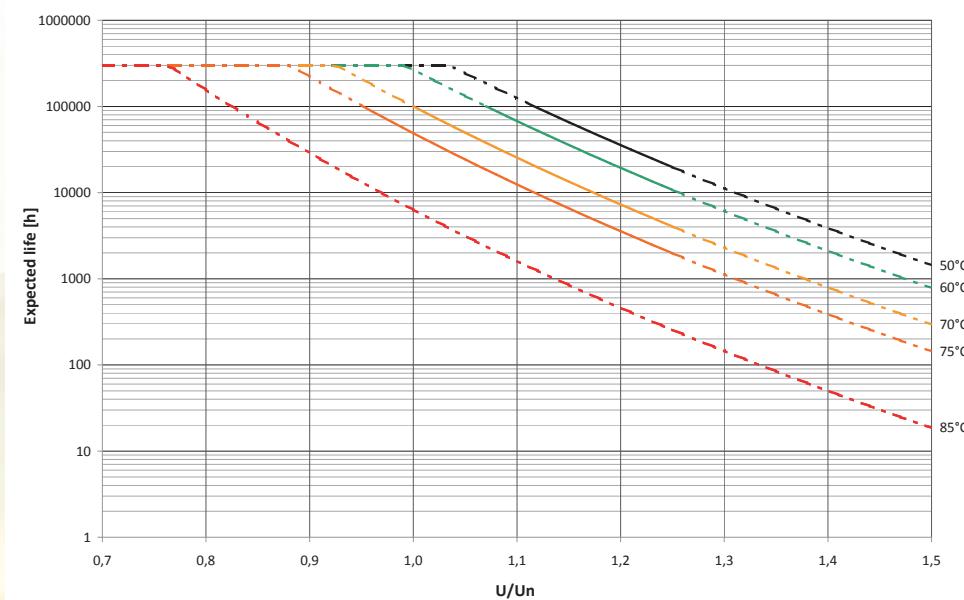
The following diagrams show the correlation between useful life, hot spot temperature and operating voltage.

The diagrams should be considered only as a theoretical reference.

In the lifetime graphic, statements for more than 300.000hrs are cut off as they are technically unreasonable.

Dashed lines underline an high degree of uncertainty in case of voltage and hot temperature far from the rated ones, whose effect is a wide scattering in the experimental data. Please consult our technical department in case of working condition different from the rated ones.

Theoretical expected life time vs voltage and hot spot temperature



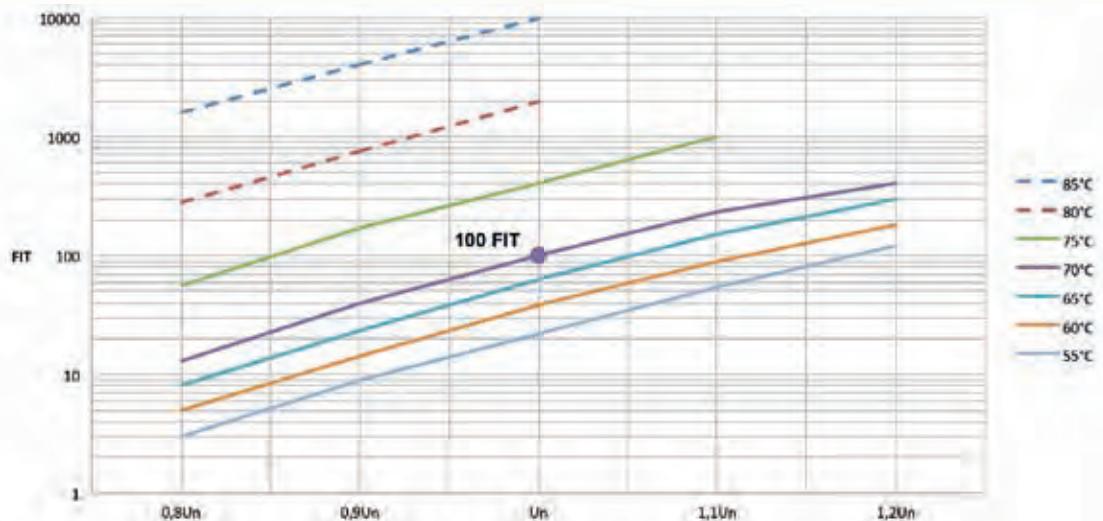
FIT Rate

Failure probability of a component is a statistical value described by a log normal distribution. It is related to an operating lifetime of 100.000hrs with hot spot temperature of 70°C. Failure considered are short circuits, interruptions, capacitance drifts exceeding 5% out of the rated tollerance limit and tan δ increase over 3 times the initial value.

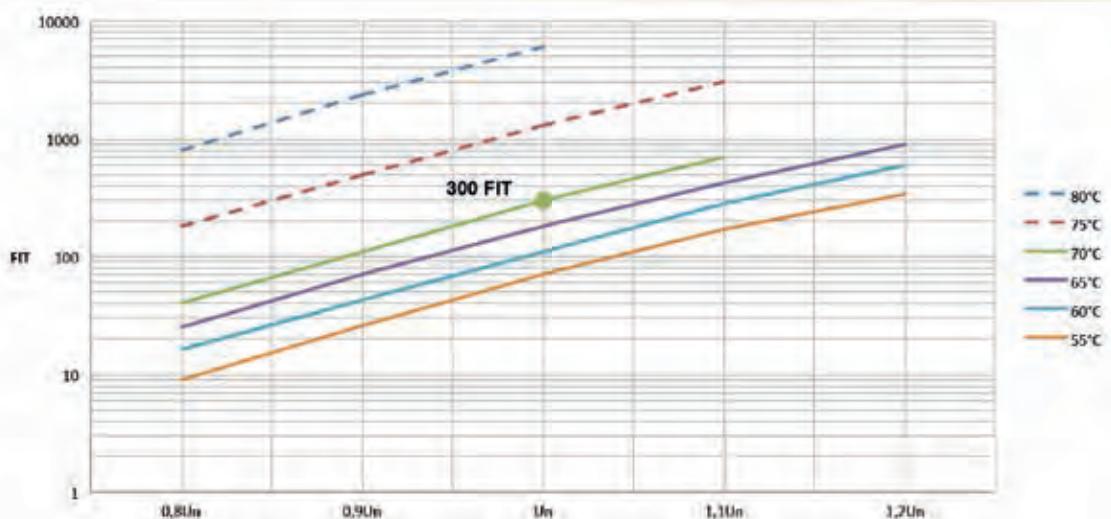
FIT is a statistical parameter coming from the empirical experience and should be considered as an approximate information about the effect of voltage and temperature conditions. It is not possible to automatically transfer the data coming from a limited quantity to a whole population or even to a batch of capacitors.

A simultaneous operation of capacitors at highest permissible voltage and operating temperature should be avoided otherwise, failure rate may increase.

Applicable for LNK-P1, LNK-P2, LNK-P3, LNK-P4, LNK-P5, LNK-P6 LNK-P7 LNK-P8 and LNK-M3 series.

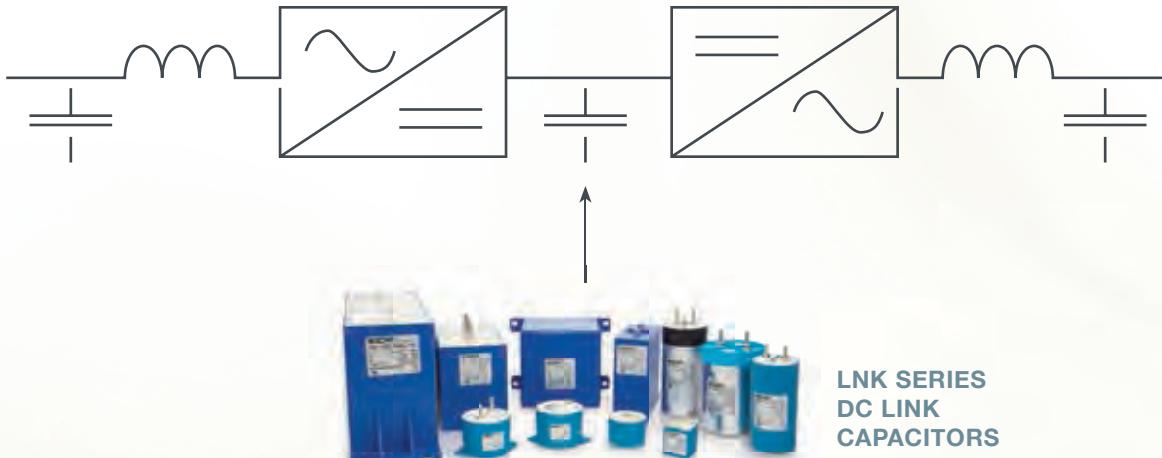


Applicable for LNK-P9 series.



LNK Series

THE EFFECTIVE WAY TO REPLACE ELECTROLYTIC CAPACITORS



KEY POINTS

- COMPACT DESIGN
- LOW LOSSES
- HIGH RIPPLE CURRENT
- DRY TECHNOLOGY I.E. NO LEAKAGE PROBLEMS
- SELF EXTINGUISHING RESINS AND PLASTICS ACCORDING TO UL94
- ON REQUEST, TECHNICAL DESIGN WITH DIFFERENT REQUIREMENTS AND HAZARD LEVELS ACCORDING TO EN 45545

ADVANTAGES OF LNK CAPACITORS AGAINST ELECTROLYTIC CAPACITORS

A typical industrial converter basically consists of an AC/DC section (to convert the AC voltage of the grid into a DC voltage) and a DC/AC section either at variable frequency (motor drive) or fixed frequency (generators or UPS).

These two parts are connected through a DC bus (link circuit) where capacitors are required in order to filter the high frequency components (DC Link Capacitors).

Most important requirements for these capacitors are:

- capability to withstand high currents at frequencies above 1000 Hz
- high energy density (Joule/dm³)

Electrolytic Capacitors banks are used up to a voltage of 2000V, but their limits are:

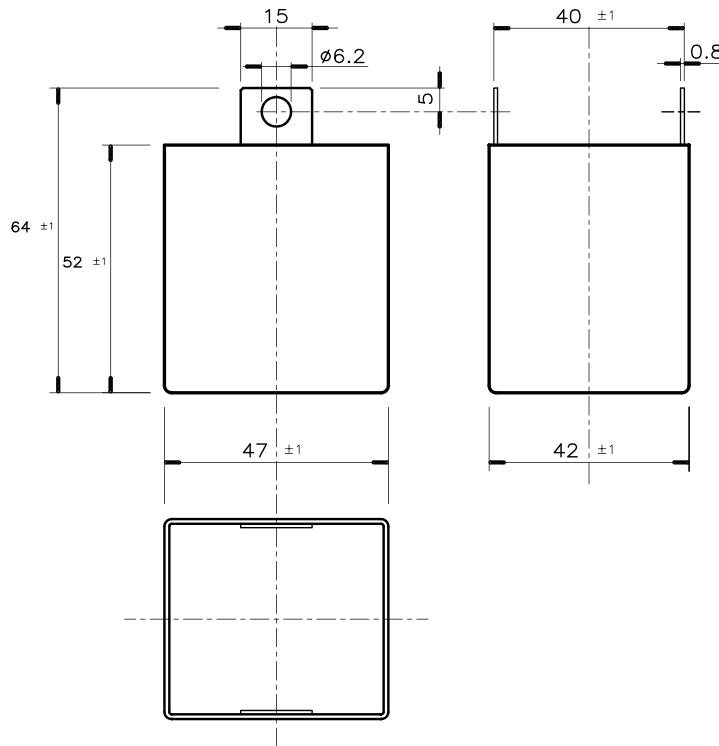
- maximum working voltage across each capacitor limited to about 450÷500V
- maximum current, especially at high frequency, limited by the high ESR (Equivalent Series Resistance) typical of this technology.

For these reasons, in general, Electrolytic Capacitors have to be connected in series/parallel to form banks able to withstand the voltages and the currents required by the application.

Polypropylene film capacitors are able to overcome these limits and **in most cases they are able to replace favourably electrolytic capacitors** in applications where the voltage is above 500Vdc.

Main advantages of Metallized Film Capacitor are:

- High current per capacitance (A/ μ F)
- High voltage per element
- High capability to withstand overvoltages up to 2 times the rated voltage
- More than 10 years estimated lifetime
- Easy connections and low equivalent inductance
- Non polar dielectric
- No leakage of dangerous or poisonous electrolytes.



LNK - P1X

- VERY LOW INDUCTANCE
- SMALL SIZE
- RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

Failure rate: 100 FIT
Operating Temperature -40°C / +70°C
Maximum hot spot 85°C

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance with natural cooling R _{thn} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Weight (kg) | Box quantity (pcs) |
|-----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|-------------|--------------------|
| LNK-P1X-45-70 | 45 | 700 | 1400 | 40 | 1500 | 15 | 1,40 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-30-90 | 30 | 900 | 1800 | 35 | 1300 | 15 | 1,70 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-25-100 | 25 | 1000 | 2000 | 35 | 1300 | 15 | 1,80 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-22-110 | 22 | 1100 | 2200 | 35 | 1200 | 15 | 1,90 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-16-125 | 16 | 1250 | 2500 | 30 | 1000 | 15 | 2,28 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-10-145 | 10 | 1450 | 2900 | 25 | 700 | 15 | 3,00 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |
| LNK-P1X-7,5-180 | 7,5 | 1800 | 3600 | 20 | 700 | 15 | 3,25 | 12,8 | 40 | 36 | 36 | 0,15 | 49 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Routine dielectric test: DC voltage test between terminals = 1.5 UN x 10 s
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 30°C (for more details see "Selections rules and definitions").

New version at 450V, 600V 2000V and 2200V

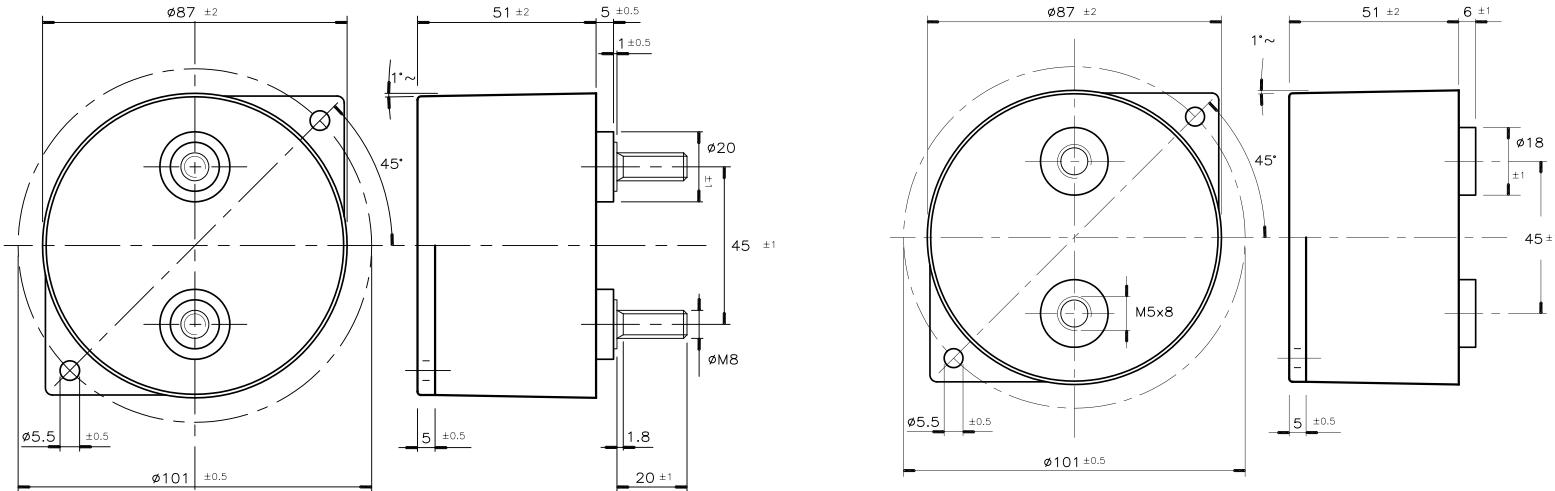


LNK - P2X

MALE TERMINALS

LNK - P2Z

FEMALE TERMINALS



ULfile: E191589 In accordance to EN45545

- HIGH CURRENT
- OPTIMIZED FOR HEATSINK MOUNTING
- RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

Failure rate: 100 FIT

Operating temperature -40°C / +70°C
Max hot spot 85°C (70°C for 450V and 600V)

| MODEL | Capacitance C(μF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms Current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Tightening torque (Nm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P2X-250-45 | 250 | 450 | 900 | 80 | 6,8 | <30 | 0,36 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-200-60 | 200 | 600 | 1200 | 80 | 6,5 | <30 | 0,38 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-150-70 | 150 | 700 | 1400 | 85 | 5,3 | <30 | 0,4 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-100-90 | 100 | 900 | 1800 | 75 | 4,5 | <30 | 0,55 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-80-100 | 80 | 1000 | 2000 | 70 | 4 | <30 | 0,6 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-70-110 | 70 | 1100 | 2200 | 70 | 3,8 | <30 | 0,65 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-50-125 | 50 | 1250 | 2500 | 65 | 3,2 | <30 | 0,75 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-40-145 | 40 | 1450 | 2900 | 60 | 2,9 | <30 | 0,8 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-25-180 | 25 | 1800 | 3600 | 55 | 2,3 | <30 | 1 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-20-200 | 20 | 2000 | 4000 | 50 | 2 | <30 | 1,2 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |
| LNK-P2X-16-220 | 16 | 2200 | 4400 | 45 | 1,7 | <30 | 1,3 | 10 | 10 | 28 | 28 | 10 | 2 | 0,45 | 16 |

- In order to decrease the thermal resistance, the capacitor should be installed on a heatsink through an heat conductive paste.
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convention)
- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 30°C (for more details see "Selections rules and definitions").

New version at 450V, 600V 2000V and 2200V

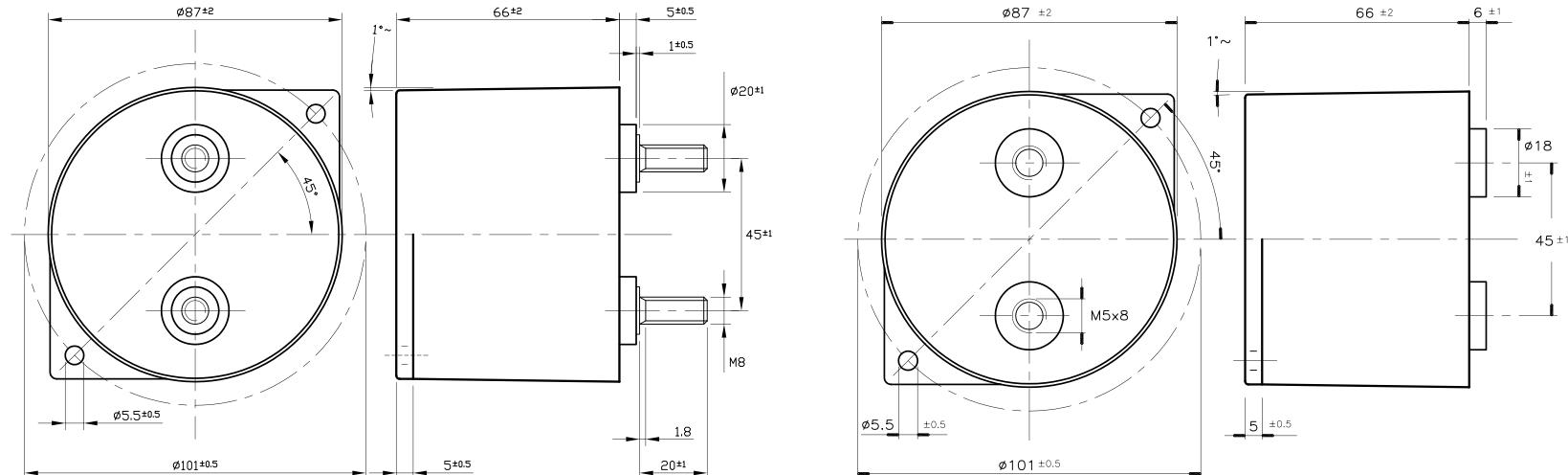
new

LNK - P2L

MALE TERMINALS

LNK - P2T

FEMALE TERMINALS



ULfile: E191589

- HIGH CURRENT
- OPTIMIZED FOR HEATSINK MOUNTING
- RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

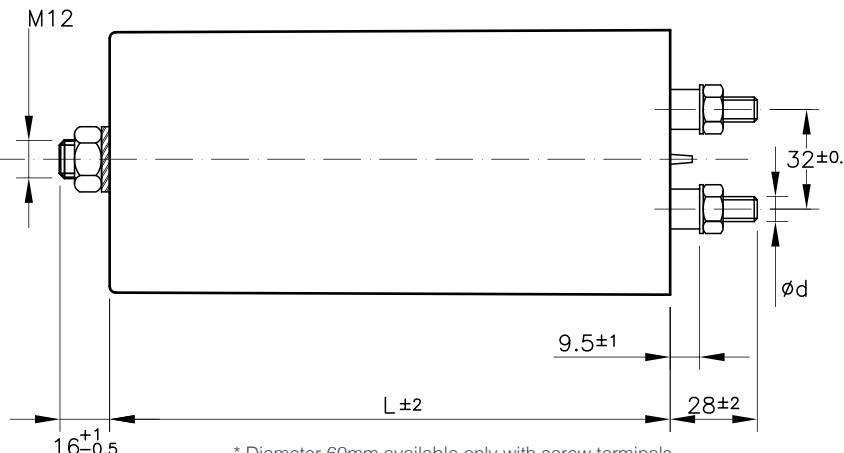
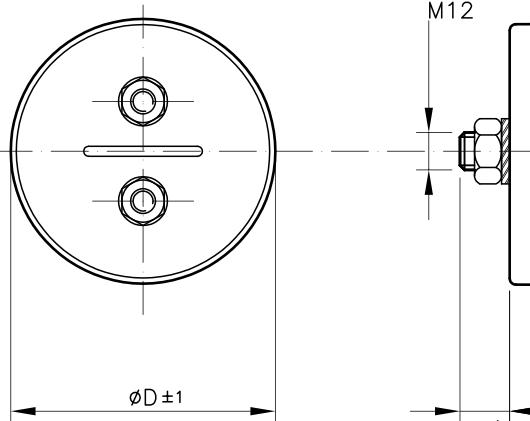
Failure rate: 100 FIT
Operating temperature -40°C / +70°C
Max hot spot 85°C (70°C for 450V and 600V)

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{Pk} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Tightening Torque (Nm) | Fixing feet tightening torque (Nm) | Weight (Kg) | Box quantity (pcs) |
|-----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P2L-350-45 | 350 | 450 | 900 | 60 | 6,5 | 40 | 0,65 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-280-60 | 280 | 600 | 1200 | 60 | 6 | 40 | 0,7 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-240-70 | 240 | 700 | 1400 | 60 | 5,6 | 40 | 1 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-150-90 | 150 | 900 | 1800 | 55 | 4,4 | 40 | 1,1 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-100-110 | 100 | 1100 | 2200 | 50 | 3,6 | 40 | 1,3 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-75-125 | 75 | 1250 | 2500 | 45 | 3,1 | 40 | 1,5 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-50-145 | 50 | 1450 | 2900 | 45 | 2,4 | 40 | 1,6 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-35-180 | 35 | 1800 | 3600 | 40 | 2,1 | 40 | 2 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-30-200 | 30 | 2000 | 4000 | 40 | 2 | 40 | 2,1 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |
| LNK-P2L-25-220 | 25 | 2200 | 4400 | 35 | 1,8 | 40 | 2,2 | 8,75 | 10 | 28 | 28 | 10 | 2 | 0,55 | 16 |

- In order to decrease the thermal resistance, the capacitor should be installed on a heatsink through an heat conductive paste.
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 30°C (for more details see "Selections rules and definitions").

new

LNK - P3Y



ULfile: E191589

- MECHANICAL LAYOUT OPTIMIZED TO EASY REPLACE ELECTROLYTIC CAPACITORS
- ALSO AVAILABLE WITH THREADED HOLE TERMINALS, ON REQUEST
- RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

| D (mm) | Creepage (mm) | Clearance (mm) | Screw terminals d | Tightening fixing stud (Nm) | Torque terminals (Nm) |
|-----------|------------------|-------------------|----------------------|-----------------------------------|-----------------------------|
| 60 | 30 | 19,5 | M6 | 10 | 6 |
| 75 | 30 | 19,5 | M6 | 10 | 6 |
| 85 | 30 | 19,5 | M8 | 10 | 6 |
| 100 | 30 | 19,5 | M8 | 10 | 10 |

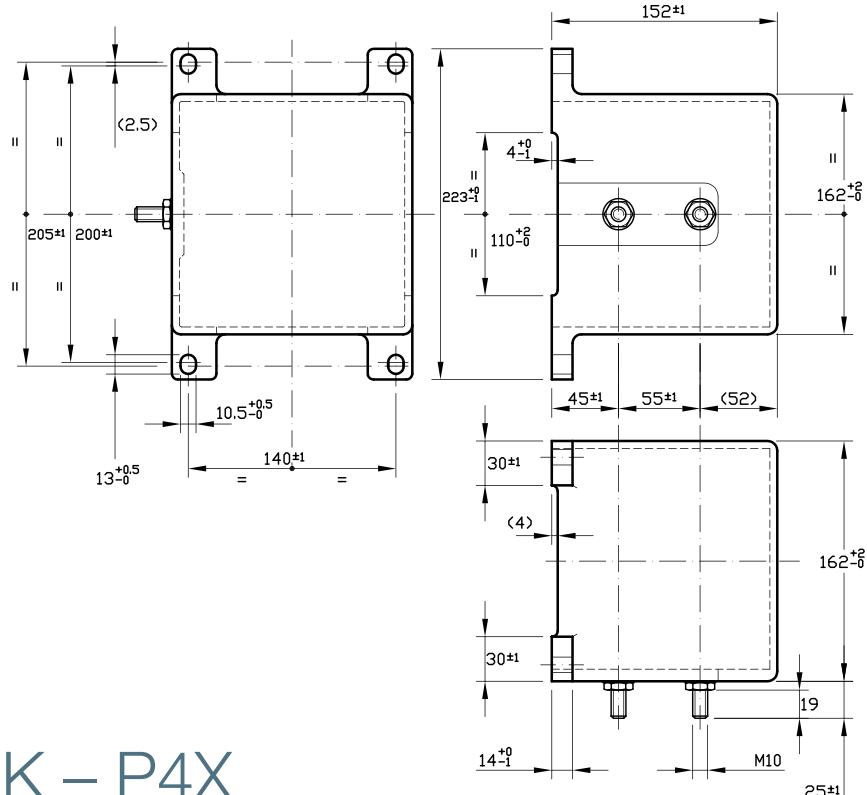
Failure rate: 100 FIT

Operating temperature -40°C / +70°C
Max hot spot 85°C (70°C for 450V and 600V)

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|-----------------|----------------------|---|------------------------------------|--|--|---|---|---|--|----------------|------------------|----------------|--------------------------|
| LNK-P3Y-350-45 | 350 | 450 | 680 | 25 | 1,4 | 65 | 4,8 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-630-45 | 630 | 450 | 680 | 35 | 2,5 | 65 | 2,9 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-720-45 | 720 | 450 | 680 | 33 | 2,5 | 75 | 3,2 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-850-45 | 850 | 450 | 680 | 40 | 3,3 | 65 | 2,3 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-1300-45 | 1300 | 450 | 680 | 45 | 4,4 | 75 | 2,1 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-260-60 | 260 | 600 | 900 | 25 | 1,2 | 65 | 5,3 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-470-60 | 470 | 600 | 900 | 35 | 2,1 | 65 | 3,2 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-540-60 | 540 | 600 | 900 | 33 | 2,1 | 75 | 3,5 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-640-60 | 640 | 600 | 900 | 40 | 2,9 | 65 | 2,6 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-1000-60 | 1000 | 600 | 900 | 45 | 4 | 75 | 2,3 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _S (nH) | Series resistance R _S (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|-----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| LNK-P3Y-220-80 | 220 | 800 | 1200 | 25 | 1,1 | 65 | 5,7 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-400-80 | 400 | 800 | 1200 | 35 | 2 | 65 | 3,4 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-460-80 | 460 | 800 | 1200 | 30 | 2 | 75 | 3,7 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-540-80 | 540 | 800 | 1200 | 40 | 2,7 | 65 | 2,7 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-870-80 | 870 | 800 | 1200 | 40 | 3,8 | 75 | 2,4 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-160-110 | 160 | 1100 | 1650 | 25 | 0,9 | 65 | 6,5 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-285-110 | 285 | 1100 | 1650 | 30 | 1,7 | 65 | 3,9 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-320-110 | 320 | 1100 | 1650 | 30 | 1,6 | 75 | 4,4 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-380-110 | 380 | 1100 | 1650 | 35 | 2,2 | 65 | 3,1 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-620-110 | 620 | 1100 | 1650 | 40 | 3,2 | 75 | 2,6 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-105-130 | 105 | 1300 | 1950 | 20 | 0,8 | 65 | 7,8 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-190-130 | 190 | 1300 | 1950 | 30 | 1,4 | 65 | 4,6 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-210-130 | 210 | 1300 | 1950 | 25 | 1,3 | 75 | 5,2 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-260-130 | 260 | 1300 | 1950 | 30 | 1,9 | 65 | 3,6 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-420-130 | 420 | 1300 | 1950 | 35 | 2,6 | 75 | 3 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-65-165 | 65 | 1650 | 2475 | 18 | 0,6 | 65 | 9,9 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-120-165 | 120 | 1650 | 2475 | 25 | 1,1 | 65 | 5,6 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-140-165 | 140 | 1650 | 2475 | 25 | 1,1 | 75 | 6,2 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-160-165 | 160 | 1650 | 2475 | 30 | 1,4 | 65 | 4,4 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-270-165 | 270 | 1650 | 2475 | 30 | 2,1 | 75 | 3,6 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-50-185 | 50 | 1850 | 2775 | 18 | 0,5 | 65 | 11,1 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-90-185 | 90 | 1850 | 2775 | 25 | 0,9 | 65 | 6,4 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-100-185 | 100 | 1850 | 2775 | 20 | 0,9 | 75 | 7,4 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-125-185 | 125 | 1850 | 2775 | 25 | 1,3 | 65 | 4,9 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-200-185 | 200 | 1850 | 2775 | 30 | 1,8 | 75 | 4,1 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-40-200 | 40 | 2000 | 3000 | 15 | 0,5 | 65 | 12,2 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-70-200 | 70 | 2000 | 3000 | 20 | 0,8 | 65 | 7,2 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-80-200 | 80 | 2000 | 3000 | 20 | 0,8 | 75 | 8,1 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-100-200 | 100 | 2000 | 3000 | 25 | 1,1 | 65 | 5,3 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-160-200 | 160 | 2000 | 3000 | 30 | 1,6 | 75 | 4,4 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |
| LNK-P3Y-33-220 | 33 | 2200 | 3300 | 15 | 0,4 | 65 | 13,2 | 6,1 | 5 | 0,5 | 60 | 140 | 36 |
| LNK-P3Y-60-220 | 60 | 2200 | 3300 | 20 | 0,8 | 65 | 7,5 | 5,9 | 5 | 0,75 | 75 | 140 | 16 |
| LNK-P3Y-65-220 | 65 | 2200 | 3300 | 20 | 0,7 | 75 | 8,9 | 5,9 | 5 | 0,8 | 75 | 155 | 16 |
| LNK-P3Y-80-220 | 80 | 2200 | 3300 | 25 | 1 | 65 | 5,8 | 5,7 | 5 | 0,9 | 85 | 140 | 16 |
| LNK-P3Y-125-220 | 125 | 2200 | 3300 | 25 | 1,4 | 75 | 5 | 5,5 | 5 | 1,4 | 100 | 155 | 9 |

- In order to decrease the thermal resistance, the capacitor should be installed on a heatsink through an heat conductive paste.
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convention)
- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and fixing stud = 1.414U_N + 1000 x10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 30°C (for more details see "Selections rules and definitions").



LNK - P4X

ULfile: E191589

- HEAVY DUTY CONSTRUCTION
- EXTERNAL RESIN AND CASE COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

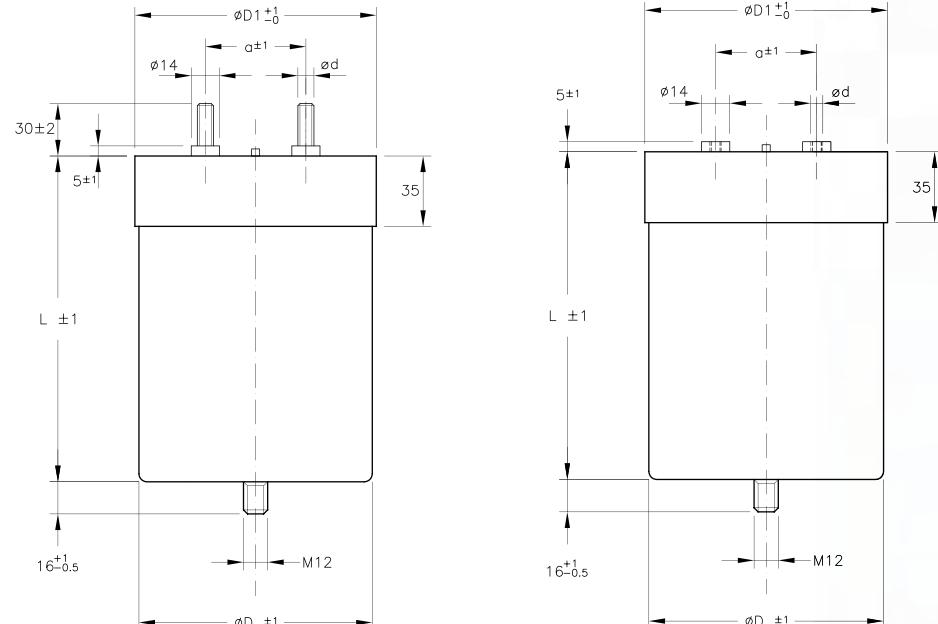
Failure rate: 100 FIT
Operating temperature -40°C / +80°C
Max hot spot 85°C (70°C for 650V)

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance with natural cooling R _{thn} (°C/W) | Full current Max Working Frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Tightening torque (Nm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|-----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P4X-2750-65 | 2750 | 650 | 975 | 120 | 10500 | <30 | 0,62 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-2000-70 | 2000 | 700 | 1400 | 120 | 8800 | <30 | 0,5 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-2350-80 | 2350 | 800 | 1200 | 120 | 10000 | <30 | 0,65 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-1300-90 | 1300 | 900 | 1800 | 120 | 7200 | <30 | 0,6 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Maximum hot spot temperature: 85°C
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 30°C (for more details see "Selections rules and definitions").

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance with natural cooling R _{thn} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearance (mm) | Tightening torque (Nm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|------------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P4X-1500-90 | 1500 | 900 | 1350 | 110 | 8000 | <30 | 0,80 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-900-110 | 900 | 1100 | 2200 | 120 | 6000 | <30 | 0,7 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-1150-110 | 1150 | 1100 | 1650 | 105 | 7000 | <30 | 0,90 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-650-125 | 650 | 1250 | 2500 | 115 | 5200 | <30 | 0,8 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-1000-125 | 1000 | 1250 | 1875 | 100 | 6500 | <30 | 0,95 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-500-145 | 500 | 1450 | 2900 | 100 | 8800 | <30 | 0,9 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-730-145 | 730 | 1450 | 2175 | 95 | 5500 | <30 | 1,10 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-350-180 | 350 | 1800 | 3600 | 100 | 7600 | <30 | 1,1 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-430-180 | 430 | 1800 | 2700 | 85 | 4000 | <30 | 1,40 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-220-220 | 220 | 2200 | 4400 | 120 | 8400 | <30 | 0,7 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-265-220 | 265 | 2200 | 3300 | 105 | 6800 | <30 | 0,90 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-170-280 | 170 | 2800 | 4200 | 95 | 5400 | <30 | 1,10 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-55-400 | 55 | 4000 | 8000 | 60 | 4200 | <30 | 2,85 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-75-400 | 75 | 4000 | 6000 | 55 | 3400 | <30 | 3,25 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-20-500 | 20 | 5000 | 10000 | 50 | 2300 | <30 | 4,5 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |
| LNK-P4X-50-500 | 50 | 5000 | 7500 | 50 | 2600 | <30 | 4,05 | 2,75 | 15 | 47 | 35 | 20 | 8 | 5,2 | 4 |

- In order to decrease the thermal resistance, the capacitor should be installed on a heatsink through an heat conductive paste.
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 30°C (for more details see "Selections rules and definitions").

new

LNK - M3

ULfile: E191589

- MECHANICAL LAYOUT OPTIMIZED TO EASY REPLACE ELECTROLYTIC CAPACITORS
- AVAILABLE BOTH WITH SCREW AND THREADED HOLES TERMINALS
- RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

| Terminals selection | |
|---------------------|---------------------------|
| M3R | M6 threaded holes |
| M3S | M8 threaded holes |
| M3T | M6 screw terminals |
| M3U | M8 screw terminals |

| D (mm) | D1 (mm) | a (mm) | Creepage between terminals (mm) | Clearence (mm) | Terminal screw or threaded hole | Torque fixing stud M12 (Nm) | Torque terminals M6/M8 (Nm) |
|--------|---------|--------|---------------------------------|----------------|---------------------------------|-----------------------------|-----------------------------|
| 85 | 89 | 32 | 36 | 20 | M6/M8 | 10 | 6/8 |
| 100 | 104 | 32 | 36 | 18 | M6/M8 | 10 | 6/8 |
| 116 | 120 | 50 | 45 | 36 | M6/M8 | 10 | 6/8 |
| 136 | 140 | 50 | 48 | 36 | M6/M8 | 10 | 6/8 |



Failure rate: 100 FIT

Operating temperature -40°C / +75°C
Maximum hot spot 85°C (70°C for 550V and 700V)

*M2 version (lower diameter) available on request.

LNK - M3...1 HIGH CURRENT

| MODEL | U _N : 550V | | U _S : 820V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-750-55 | 750 | 70 | 6,2 | 40 | 0,62 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-900-55 | 900 | 70 | 6,2 | 45 | 0,75 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-1100-55 | 1100 | 70 | 6,2 | 50 | 0,85 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-1500-55 | 1500 | 70 | 6,2 | 60 | 1,25 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-1000-55 | 1000 | 90 | 8,5 | 40 | 0,53 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-1250-55 | 1250 | 90 | 8,5 | 45 | 0,53 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-1500-55 | 1500 | 90 | 8,5 | 50 | 0,68 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-2000-55 | 2000 | 80 | 8,5 | 60 | 0,95 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-2300-55 | 2300 | 85 | 8,5 | 60 | 0,95 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-2600-55 | 2600 | 90 | 8,5 | 60 | 0,95 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-1500-55 | 1500 | 100 | 13 | 40 | 0,38 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-1900-55 | 1900 | 100 | 13 | 45 | 0,42 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-2300-55 | 2300 | 100 | 13 | 50 | 0,48 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-3200-55 | 3200 | 100 | 13 | 60 | 0,65 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-3500-55 | 3500 | 100 | 13 | 60 | 0,7 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-3200-55 | 3200 | 100 | 18 | 60 | 0,48 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-4000-55 | 4000 | 100 | 13 | 60 | 0,7 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-4500-55 | 4500 | 100 | 18 | 70 | 0,57 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-4700-55 * | 4700 | 120 | 25 | 60 | 0,42 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-5600-55 * | 5600 | 120 | 18 | 60 | 0,58 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-6400-55 * | 6400 | 120 | 25 | 70 | 0,52 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...1 HIGH CURRENT

| MODEL | U _N : 700V | | U _S : 1050V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-560-70 | 560 | 70 | 6 | 40 | 0,65 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-710-70 | 710 | 70 | 6 | 45 | 0,75 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-770-70 | 770 | 90 | 8 | 40 | 0,55 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-870-70 | 870 | 70 | 6 | 50 | 0,9 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-950-70 | 950 | 90 | 8 | 45 | 0,55 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-1100-70 | 1100 | 100 | 12 | 40 | 0,4 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-1180-70 | 1180 | 70 | 6 | 60 | 1,3 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-1200-70 | 1200 | 90 | 8 | 50 | 0,7 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-1450-70 | 1450 | 100 | 12 | 45 | 0,45 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-1600-70 | 1600 | 80 | 8 | 60 | 1 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-1750-70 | 1750 | 100 | 12 | 50 | 0,5 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-1800-70 | 1800 | 85 | 8 | 60 | 1 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-2000-70 | 2000 | 90 | 8 | 60 | 1 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-2400-70 | 2400 | 100 | 12 | 60 | 0,7 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-2400-70 | 2400 | 100 | 16 | 60 | 0,5 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-2650-70 | 2650 | 100 | 12 | 60 | 0,75 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-3000-70 | 3000 | 100 | 12 | 60 | 0,75 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-3300-70 | 3300 | 100 | 16 | 70 | 0,6 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-3500-70 * | 3500 | 120 | 23 | 60 | 0,45 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-4200-70 * | 4200 | 120 | 16 | 60 | 0,6 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-4700-70 * | 4700 | 120 | 23 | 70 | 0,55 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...1

HIGH CURRENT

| MODEL | U _N : 900V | | U _S : 1350V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-470-90 | 470 | 70 | 5,5 | 40 | 0,7 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-605-90 | 605 | 70 | 5,5 | 45 | 0,8 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-660-90 | 660 | 90 | 7,3 | 40 | 0,55 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-740-90 | 740 | 70 | 5,5 | 50 | 0,95 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-830-90 | 830 | 90 | 7,3 | 45 | 0,6 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-950-90 | 950 | 100 | 11 | 40 | 0,4 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-1000-90 | 1000 | 70 | 5,5 | 60 | 1,4 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-1000-90 | 1000 | 85 | 7,3 | 50 | 0,75 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-1220-90 | 1220 | 100 | 11 | 45 | 0,45 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-1350-90 | 1350 | 80 | 7,3 | 60 | 1,1 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-1500-90 | 1500 | 85 | 7,3 | 60 | 1,05 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-1500-90 | 1500 | 100 | 11 | 50 | 0,55 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-1700-90 | 1700 | 90 | 7,3 | 60 | 1,05 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-2000-90 | 2000 | 100 | 14 | 60 | 0,5 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-2030-90 | 2030 | 100 | 11 | 60 | 0,75 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-2250-90 | 2250 | 100 | 11 | 60 | 0,78 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-2570-90 | 2570 | 100 | 11 | 60 | 0,78 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-2800-90 | 2800 | 100 | 14 | 70 | 0,65 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-3000-90 * | 3000 | 120 | 21 | 60 | 0,45 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-3500-90 * | 3500 | 120 | 14 | 60 | 0,65 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-4000-90 * | 4000 | 120 | 21 | 70 | 0,55 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...1 HIGH CURRENT

| MODEL | U _N : 1100V | | U _S : 1650V | | | | | | | | |
|---------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-335-110 | 335 | 70 | 4,7 | 40 | 0,75 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-430-110 | 430 | 70 | 4,7 | 45 | 0,9 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-470-110 | 470 | 85 | 6,1 | 40 | 0,6 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-530-110 | 530 | 70 | 4,7 | 50 | 1,05 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-580-110 | 580 | 90 | 6,1 | 45 | 0,6 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-680-110 | 680 | 100 | 9,4 | 40 | 0,45 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-720-110 | 720 | 65 | 4,7 | 60 | 1,55 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-730-110 | 730 | 85 | 6,1 | 50 | 0,8 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-870-110 | 870 | 100 | 9,4 | 45 | 0,5 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-950-110 | 950 | 80 | 6,1 | 60 | 1,2 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-1065-110 | 1065 | 100 | 9,4 | 50 | 0,58 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-1100-110 | 1100 | 80 | 6,1 | 60 | 1,2 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-1250-110 | 1250 | 90 | 6,1 | 60 | 1,15 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-1450-110 | 1450 | 100 | 9,4 | 60 | 0,85 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-1450-110 | 1450 | 100 | 12 | 60 | 0,55 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-1600-110 | 1600 | 100 | 9,4 | 60 | 0,85 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-1850-110 | 1850 | 100 | 9,4 | 60 | 0,85 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-2000-110 | 2000 | 100 | 12 | 70 | 0,7 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-2100-110 * | 2100 | 120 | 18 | 60 | 0,5 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-2500-110 * | 2500 | 120 | 12 | 60 | 0,7 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-2900-110 * | 2900 | 120 | 18 | 70 | 0,6 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...1 HIGH CURRENT

| MODEL | $U_N: 1300V$ | | $U_S: 1950V$ | | Series resistance R_s (mΩ) | Thermal resistance R_{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|---------------------|-------------------|-------------------------------|---------------------------|----------------------------|---------------------------------|---------------------------------------|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I_{max} (A) | Peak current I_{PK} (A) | Self inductance L_s (nH) | | | | | | | |
| LNK-M3_1-225-130 | 225 | 65 | 3,8 | 40 | 0,85 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-290-130 | 290 | 65 | 3,8 | 45 | 1,05 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-310-130 | 310 | 80 | 5,1 | 40 | 0,7 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-350-130 | 350 | 65 | 3,8 | 50 | 1,25 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-400-130 | 400 | 85 | 5,1 | 45 | 0,7 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-455-130 | 455 | 100 | 7,7 | 40 | 0,5 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-480-130 | 480 | 60 | 3,8 | 60 | 1,8 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-480-130 | 480 | 75 | 5,1 | 50 | 0,95 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-585-130 | 585 | 100 | 7,7 | 45 | 0,55 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-650-130 | 650 | 75 | 5,1 | 60 | 1,35 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-710-130 | 710 | 100 | 7,7 | 50 | 0,65 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-720-130 | 720 | 75 | 5,1 | 60 | 1,4 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-810-130 | 810 | 80 | 5,1 | 60 | 1,4 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-970-130 | 970 | 100 | 7,7 | 60 | 0,95 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-980-130 | 980 | 100 | 10,5 | 60 | 0,6 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-1070-130 | 1070 | 100 | 7,7 | 60 | 1 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-1230-130 | 1230 | 100 | 7,7 | 60 | 1 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-1350-130 | 1350 | 100 | 10,5 | 70 | 0,8 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-1400-130 * | 1400 | 120 | 15 | 60 | 0,55 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-1700-130 * | 1700 | 120 | 10,5 | 60 | 0,8 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-1900-130 * | 1900 | 120 | 15 | 70 | 0,65 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise $\vartheta_h - \vartheta_0$ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...1 HIGH CURRENT

| | U_N: 1650V | U_S: 2475V | | | | | | | | | |
|---------------------|-----------------------------|--|--|--|---|---|---|--------------------|----------------------|--------------------|---------------------------|
| MODEL | Capacitance C(µF) | Max rms current I_{max} (A) | Peak current I_{PK} (A) | Self inductance L_s(nH) | Series resistance R_s (mΩ) | Thermal resistance R_{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-145-165 | 145 | 60 | 3,1 | 40 | 1 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-190-165 | 190 | 60 | 3,1 | 45 | 1,2 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-200-165 | 200 | 75 | 4,1 | 40 | 0,8 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-230-165 | 230 | 60 | 3,1 | 50 | 1,45 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-260-165 | 260 | 80 | 4,1 | 45 | 0,8 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-300-165 | 300 | 100 | 6,2 | 40 | 0,55 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-310-165 | 310 | 70 | 4,1 | 50 | 1,1 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-315-165 | 315 | 55 | 3,1 | 60 | 2,15 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-380-165 | 380 | 100 | 6,2 | 45 | 0,65 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-420-165 | 420 | 65 | 4,1 | 60 | 1,6 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-465-165 | 465 | 100 | 6,2 | 50 | 0,75 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-470-165 | 470 | 70 | 4,1 | 60 | 1,65 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-550-165 | 550 | 75 | 4,1 | 60 | 1,6 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-635-165 | 635 | 90 | 6,2 | 60 | 1,1 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-640-165 | 640 | 100 | 8,5 | 60 | 0,65 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-700-165 | 700 | 90 | 6,2 | 60 | 1,15 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-800-165 | 800 | 95 | 6,2 | 60 | 1,15 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-880-165 | 880 | 100 | 8,5 | 70 | 0,9 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-920-165 * | 920 | 120 | 12 | 60 | 0,6 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-1100-165 * | 1100 | 100 | 8,5 | 60 | 0,95 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-1250-165 * | 1250 | 120 | 12 | 70 | 0,75 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...1 HIGH CURRENT

| MODEL | U _N : 1850V | | U _S : 2780V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-112-185 | 112 | 60 | 2,7 | 40 | 1,1 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-145-185 | 145 | 60 | 2,7 | 45 | 1,35 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-150-185 | 150 | 70 | 3,5 | 40 | 0,9 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-175-185 | 175 | 55 | 2,7 | 50 | 1,6 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-200-185 | 200 | 75 | 3,5 | 45 | 0,9 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-225-185 | 225 | 95 | 5,5 | 40 | 0,6 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-240-185 | 240 | 50 | 2,7 | 60 | 2,4 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-240-185 | 240 | 70 | 3,5 | 50 | 1,2 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-290-185 | 290 | 95 | 5,5 | 45 | 0,75 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-330-185 | 330 | 65 | 3,5 | 60 | 1,75 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-350-185 | 350 | 65 | 3,5 | 60 | 1,95 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-355-185 | 355 | 95 | 5,5 | 50 | 0,85 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-410-185 | 410 | 70 | 3,5 | 60 | 1,8 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-480-185 | 480 | 100 | 7,3 | 60 | 0,75 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-485-185 | 485 | 85 | 5,5 | 60 | 1,25 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-535-185 | 535 | 85 | 5,5 | 60 | 1,3 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-610-185 | 610 | 90 | 5,5 | 60 | 1,3 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-670-185 | 670 | 100 | 7,3 | 70 | 1 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-700-185 * | 700 | 120 | 10 | 60 | 0,6 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-850-185 * | 850 | 100 | 7,3 | 60 | 1 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-950-185 * | 950 | 120 | 10 | 70 | 0,8 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...1 HIGH CURRENT

| MODEL | U _N : 2000V | | U _S : 3000V | | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|--|--|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | | | | | | | |
| LNK-M3_1-85-200 | 85 | 55 | 2,2 | 40 | 1,25 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-110-200 | 110 | 55 | 2,2 | 45 | 1,45 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-120-200 | 120 | 70 | 3,1 | 40 | 0,95 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-135-200 | 135 | 50 | 2,2 | 50 | 1,8 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-150-200 | 150 | 75 | 3,1 | 45 | 1 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-170-200 | 170 | 85 | 4,6 | 40 | 0,7 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-180-200 | 180 | 45 | 2,2 | 60 | 2,75 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-190-200 | 190 | 65 | 3,1 | 50 | 1,35 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-220-200 | 220 | 90 | 4,6 | 45 | 0,8 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-250-200 | 250 | 60 | 3,1 | 60 | 2 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-280-200 | 280 | 60 | 3,1 | 60 | 2,1 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-280-200 | 280 | 85 | 4,6 | 50 | 0,95 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-320-200 | 320 | 65 | 3,1 | 60 | 2 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-380-200 | 380 | 80 | 4,6 | 60 | 1,35 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-380-200 | 380 | 100 | 6,5 | 60 | 0,8 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-410-200 | 410 | 80 | 4,6 | 60 | 1,5 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-470-200 | 470 | 80 | 4,6 | 60 | 1,45 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-520-200 | 520 | 100 | 6,5 | 70 | 1,1 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-550-200 * | 550 | 120 | 9,4 | 60 | 0,65 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-670-200 * | 670 | 100 | 6,5 | 60 | 1,1 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-750-200 * | 750 | 120 | 9,4 | 70 | 0,85 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...1 HIGH CURRENT

| MODEL | U _N : 2200V | | U _S : 3300V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|---|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max workingfrequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_1-70-220 | 70 | 55 | 2,1 | 40 | 1,3 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-90-220 | 90 | 50 | 2,1 | 45 | 1,55 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-100-220 | 100 | 65 | 2,8 | 40 | 1 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-110-220 | 110 | 50 | 2,1 | 50 | 1,95 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-125-220 | 125 | 70 | 2,8 | 45 | 1,05 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-140-220 | 140 | 85 | 4,2 | 40 | 0,75 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-150-220 | 150 | 45 | 2,1 | 60 | 2,95 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-150-220 | 150 | 60 | 2,8 | 50 | 1,5 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-180-220 | 180 | 85 | 4,2 | 45 | 0,85 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-210-220 | 210 | 60 | 2,8 | 60 | 2,1 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-220-220 | 220 | 80 | 4,2 | 50 | 1,05 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-230-220 | 230 | 60 | 2,8 | 60 | 2,3 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-260-220 | 260 | 60 | 2,8 | 60 | 2,2 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-300-220 | 300 | 75 | 4,2 | 60 | 1,55 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-310-220 | 310 | 100 | 5,9 | 60 | 0,85 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-330-220 | 330 | 75 | 4,2 | 60 | 1,6 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-380-220 | 380 | 80 | 4,2 | 60 | 1,6 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-420-220 | 420 | 100 | 5,9 | 70 | 1,2 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-450-220 * | 450 | 120 | 8,4 | 60 | 0,7 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-530-220 * | 530 | 100 | 5,9 | 60 | 1,2 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-600-220 * | 600 | 120 | 8,4 | 70 | 0,95 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...1 HIGH CURRENT

| MODEL | U _N : 2600V | | U _S : 3900V | | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|--|--|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | | | | | | | |
| LNK-M3_1-45-260 | 45 | 55 | 3,5 | 40 | 1,1 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-55-260 | 55 | 60 | 3,5 | 45 | 1,05 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-60-260 | 60 | 70 | 4,8 | 40 | 0,9 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-70-260 | 70 | 60 | 3,5 | 50 | 1,4 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-80-260 | 80 | 85 | 4,8 | 45 | 0,7 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-90-260 | 90 | 95 | 6,9 | 40 | 0,6 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-95-260 | 95 | 70 | 4,8 | 50 | 1,1 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-100-260 | 100 | 50 | 3,5 | 60 | 2,15 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-110-260 | 110 | 100 | 6,9 | 45 | 0,6 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-140-260 | 140 | 70 | 4,8 | 60 | 1,55 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-140-260 | 140 | 95 | 6,9 | 50 | 0,8 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-155-260 | 155 | 60 | 4,8 | 60 | 1,85 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-180-260 | 180 | 75 | 4,8 | 60 | 1,45 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-200-260 | 200 | 85 | 6,9 | 60 | 1,15 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-200-260 | 200 | 100 | 9,8 | 60 | 0,6 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-220-260 | 220 | 85 | 6,9 | 60 | 1,35 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-260-260 | 260 | 95 | 6,9 | 60 | 1,05 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-280-260 | 280 | 100 | 9,8 | 70 | 0,9 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-280-260 * | 280 | 120 | 14 | 60 | 0,55 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-360-260 * | 360 | 120 | 9,8 | 60 | 0,85 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-410-260 * | 410 | 120 | 14 | 70 | 0,75 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...1 HIGH CURRENT

| MODEL | U _N : 3000V | | U _S : 4500V | | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|--|--|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(μF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | | | | | | | |
| LNK-M3_1-32-300 | 32 | 55 | 2,9 | 40 | 1,25 | 6,2 | 10 | 0,9 | 85 | 133 | 16 |
| LNK-M3_1-40-300 | 40 | 60 | 2,9 | 45 | 1,2 | 5,3 | 10 | 1,1 | 85 | 158 | 16 |
| LNK-M3_1-45-300 | 45 | 65 | 4 | 40 | 1 | 5,2 | 10 | 1,3 | 100 | 133 | 9 |
| LNK-M3_1-50-300 | 50 | 55 | 2,9 | 50 | 1,65 | 4,6 | 10 | 1,2 | 85 | 182 | 16 |
| LNK-M3_1-55-300 | 55 | 80 | 4 | 45 | 0,8 | 4,4 | 10 | 1,5 | 100 | 158 | 9 |
| LNK-M3_1-65-300 | 65 | 90 | 5,9 | 40 | 0,7 | 4,3 | 10 | 1,6 | 116 | 133 | 9 |
| LNK-M3_1-70-300 | 70 | 50 | 2,9 | 60 | 2,55 | 3,7 | 10 | 1,5 | 85 | 233 | 4 |
| LNK-M3_1-70-300 | 70 | 70 | 4 | 50 | 1,2 | 4 | 10 | 1,7 | 100 | 182 | 9 |
| LNK-M3_1-80-300 | 80 | 95 | 5,9 | 45 | 0,65 | 3,7 | 10 | 1,9 | 116 | 158 | 9 |
| LNK-M3_1-100-300 | 100 | 65 | 4 | 60 | 1,8 | 3,2 | 10 | 2 | 100 | 233 | 3 |
| LNK-M3_1-100-300 | 100 | 90 | 5,9 | 50 | 0,9 | 3,3 | 10 | 2,2 | 116 | 182 | 9 |
| LNK-M3_1-110-300 | 110 | 60 | 4 | 60 | 2,2 | 3 | 10 | 2,1 | 100 | 253 | 3 |
| LNK-M3_1-130-300 | 130 | 75 | 4 | 60 | 1,65 | 2,6 | 10 | 2,4 | 100 | 283 | 3 |
| LNK-M3_1-145-300 | 145 | 100 | 8,5 | 60 | 0,65 | 2,3 | 10 | 3,1 | 116 | 270 | 3 |
| LNK-M3_1-150-300 | 150 | 85 | 5,9 | 60 | 1,25 | 2,7 | 10 | 2,7 | 116 | 233 | 3 |
| LNK-M3_1-160-300 | 160 | 80 | 5,9 | 60 | 1,55 | 2,5 | 10 | 2,9 | 116 | 253 | 3 |
| LNK-M3_1-190-300 | 190 | 95 | 59 | 60 | 1,2 | 2,2 | 10 | 3,2 | 116 | 283 | 3 |
| LNK-M3_1-210-300 | 210 | 100 | 8,5 | 70 | 1 | 1,9 | 10 | 3,9 | 116 | 345 | 3 |
| LNK-M3_1-210-300 * | 210 | 120 | 12 | 60 | 0,55 | 1,9 | 10 | 4,3 | 136 | 270 | 2 |
| LNK-M3_1-260-300 * | 260 | 100 | 8,3 | 60 | 0,95 | 1,8 | 10 | 4,4 | 136 | 283 | 2 |
| LNK-M3_1-300-300 * | 300 | 120 | 12 | 70 | 0,8 | 1,6 | 10 | 5,4 | 136 | 345 | 2 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...2 HIGH SPECIFIC CAPACITANCE

| MODEL | U _N : 550V | | U _S : 820V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-600-55 | 600 | 45 | 3,5 | 45 | 1,3 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-820-55 | 820 | 45 | 3,5 | 45 | 1,8 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-900-55 | 900 | 45 | 3,5 | 45 | 1,9 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-1000-55 | 1000 | 45 | 3,5 | 50 | 1,9 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-800-55 | 800 | 60 | 4,7 | 45 | 1,1 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-1100-55 | 1100 | 55 | 4,7 | 45 | 1,4 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-1200-55 | 1200 | 55 | 4,7 | 45 | 1,5 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-1400-55 | 1400 | 60 | 4,7 | 50 | 1,4 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-1600-55 | 1600 | 70 | 6,8 | 45 | 1 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-1800-55 | 1800 | 70 | 6,8 | 45 | 1,05 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-2000-55 | 2000 | 75 | 6,8 | 50 | 1,1 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-2800-55 * | 2800 | 90 | 9 | 50 | 0,85 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

| MODEL | U _N : 700V | | U _S : 1050V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-445-70 | 445 | 45 | 3,1 | 45 | 1,45 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-610-70 | 610 | 45 | 3,1 | 45 | 2,05 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-670-70 | 670 | 45 | 3,1 | 45 | 2,15 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-770-70 | 770 | 45 | 3,1 | 50 | 2,1 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-600-70 | 600 | 55 | 4 | 45 | 1,2 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-800-70 | 800 | 55 | 4 | 45 | 1,6 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-900-70 | 900 | 55 | 4 | 45 | 1,7 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-1000-70 | 1000 | 55 | 4 | 50 | 1,65 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-1220-70 | 1220 | 70 | 6,2 | 45 | 1,1 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-1350-70 | 1350 | 70 | 6,2 | 45 | 1,15 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-1550-70 | 1550 | 75 | 6,2 | 50 | 1,15 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-2000-70 * | 2000 | 85 | 7,9 | 50 | 1 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10 s or 2000 V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...2

HIGH SPECIFIC CAPACITANCE

| MODEL | U _N : 900V | | U _S : 1350V | | | | | | | | |
|--------------------|-----------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-380-90 | 380 | 45 | 2,9 | 45 | 1,65 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-520-90 | 520 | 40 | 2,9 | 45 | 2,2 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-570-90 | 570 | 40 | 2,9 | 45 | 2,3 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-655-90 | 655 | 45 | 2,9 | 50 | 2,25 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-500-90 | 500 | 55 | 3,7 | 45 | 1,3 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-680-90 | 680 | 50 | 3,7 | 45 | 1,7 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-750-90 | 750 | 50 | 3,7 | 45 | 1,8 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-850-90 | 850 | 55 | 3,7 | 50 | 1,75 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-1040-90 | 1040 | 65 | 5,7 | 45 | 1,15 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-1150-90 | 1150 | 70 | 5,7 | 45 | 1,25 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-1320-90 | 1320 | 70 | 5,7 | 50 | 1,25 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-1700-90 * | 1700 | 85 | 7,3 | 50 | 1,05 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

| MODEL | U _N : 1100V | | U _S : 1650V | | | | | | | | |
|---------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-270-110 | 270 | 40 | 2,4 | 45 | 1,95 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-370-110 | 370 | 40 | 2,4 | 45 | 2,55 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-420-110 | 420 | 40 | 2,4 | 45 | 2,6 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-470-110 | 470 | 40 | 2,4 | 50 | 2,6 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-350-110 | 350 | 50 | 3,1 | 45 | 1,45 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-480-110 | 480 | 45 | 3,1 | 45 | 2 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-540-110 | 540 | 45 | 3,1 | 45 | 2,1 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-620-110 | 620 | 50 | 3,1 | 50 | 2 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-740-110 | 740 | 60 | 4,8 | 45 | 1,35 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-820-110 | 820 | 65 | 4,8 | 45 | 1,45 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-940-110 | 940 | 65 | 4,8 | 50 | 1,4 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-1200-110 * | 1200 | 80 | 6,1 | 50 | 1,2 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

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- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...2 HIGH SPECIFIC CAPACITANCE

| MODEL | U _N : 1300V | | U _S : 1950V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-180-130 | 180 | 40 | 2 | 45 | 2,2 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-245-130 | 245 | 35 | 2 | 45 | 3,05 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-275-130 | 275 | 35 | 2 | 45 | 3,2 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-310-130 | 310 | 35 | 2 | 50 | 3,1 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-240-130 | 240 | 45 | 2,5 | 45 | 1,7 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-330-130 | 330 | 45 | 2,5 | 45 | 2,3 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-350-130 | 350 | 40 | 2,5 | 45 | 2,6 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-420-130 | 420 | 45 | 2,5 | 50 | 2,35 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-495-130 | 495 | 60 | 4 | 45 | 1,6 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-550-130 | 550 | 60 | 4 | 45 | 1,7 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-625-130 | 625 | 60 | 4 | 50 | 1,65 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-800-130 * | 800 | 70 | 5 | 50 | 1,4 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

| MODEL | U _N : 1650V | | U _S : 2475V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-118-165 | 118 | 35 | 1,6 | 45 | 2,65 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-160-165 | 160 | 30 | 1,6 | 45 | 3,65 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-180-165 | 180 | 30 | 1,6 | 45 | 3,85 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-205-165 | 205 | 35 | 1,6 | 50 | 3,75 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-150-165 | 150 | 40 | 2 | 45 | 2,1 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-210-165 | 210 | 40 | 2 | 45 | 2,9 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-240-165 | 240 | 40 | 2 | 45 | 3 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-270-165 | 270 | 40 | 2 | 50 | 2,9 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-325-165 | 325 | 50 | 3,2 | 45 | 1,95 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-360-165 | 360 | 50 | 3,2 | 45 | 2,05 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-410-165 | 410 | 55 | 3,2 | 50 | 1,95 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-550-165 * | 550 | 65 | 4,2 | 50 | 1,6 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

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- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...2

HIGH SPECIFIC CAPACITANCE

U_N: 1850VU_S: 2780V**MODEL**

| Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) | |
|--------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|----|
| LNK-M3_2-90-185 | 90 | 35 | 1,4 | 45 | 3 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-122-185 | 122 | 30 | 1,4 | 45 | 4,15 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-135-185 | 135 | 30 | 1,4 | 45 | 4,4 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-155-185 | 155 | 30 | 1,4 | 50 | 4,25 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-120-185 | 120 | 40 | 1,8 | 45 | 2,25 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-160-185 | 160 | 35 | 1,8 | 45 | 3,25 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-180-185 | 180 | 35 | 1,8 | 45 | 3,45 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-200-185 | 200 | 40 | 1,8 | 50 | 3,3 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-245-185 | 245 | 50 | 2,8 | 45 | 2,15 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-270-185 | 270 | 50 | 2,8 | 45 | 2,3 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-310-185 | 310 | 50 | 2,8 | 50 | 2,25 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-420-185 * | 420 | 65 | 3,7 | 50 | 1,8 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

U_N: 2000VU_S: 3000V**MODEL**

| Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) | |
|-------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|----|
| LNK-M3_2-70-200 | 70 | 30 | 1,2 | 45 | 3,3 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-95-200 | 95 | 30 | 1,2 | 45 | 4,8 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-100-200 | 100 | 25 | 1,2 | 45 | 5,4 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-120-200 | 120 | 30 | 1,2 | 50 | 4,85 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-90-200 | 90 | 40 | 1,5 | 45 | 2,6 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-125-200 | 125 | 35 | 1,5 | 45 | 3,65 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-140-200 | 140 | 35 | 1,5 | 45 | 3,9 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-160-200 | 160 | 35 | 1,5 | 50 | 3,65 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-190-200 | 190 | 45 | 2,4 | 45 | 2,45 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-210-200 | 210 | 45 | 2,4 | 45 | 2,7 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-240-200 | 240 | 50 | 2,4 | 50 | 2,5 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-330-200 | 330 | 60 | 3,3 | 50 | 2 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414 U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – M3...2

HIGH SPECIFIC CAPACITANCE

| MODEL | U _N : 2200V | | U _S : 3300V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-55-220 | 55 | 30 | 1 | 45 | 3,7 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-75-220 | 75 | 25 | 1 | 45 | 5,4 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-85-220 | 85 | 25 | 1 | 45 | 5,7 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-100-220 | 100 | 30 | 1 | 50 | 5,2 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-75-220 | 75 | 35 | 1,4 | 45 | 2,8 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-100-220 | 100 | 30 | 1,4 | 45 | 4,1 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-110-220 | 110 | 30 | 1,4 | 45 | 4,4 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-130-220 | 130 | 35 | 1,4 | 50 | 4 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-150-220 | 150 | 45 | 2,1 | 45 | 2,8 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-170-220 | 170 | 45 | 2,1 | 45 | 3 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-190-220 | 190 | 45 | 2,1 | 50 | 2,8 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-260-220 * | 260 | 55 | 2,9 | 50 | 2,2 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

| MODEL | U _N : 2600V | | U _S : 3900V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-35-260 | 35 | 35 | 1,7 | 45 | 2,6 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-50-260 | 50 | 30 | 1,7 | 45 | 3,8 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-55-260 | 55 | 30 | 1,7 | 45 | 4,8 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-66-260 | 66 | 35 | 1,7 | 50 | 3,4 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-47-260 | 47 | 45 | 2,3 | 45 | 2 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-66-260 | 66 | 40 | 2,3 | 45 | 2,9 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-75-260 | 75 | 35 | 2,3 | 45 | 3,6 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-90-260 | 90 | 45 | 2,3 | 50 | 2,5 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-100-260 | 100 | 50 | 3,5 | 45 | 2 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-115-260 | 115 | 50 | 3,5 | 45 | 2,4 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-130-260 | 130 | 55 | 3,5 | 50 | 1,8 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-180-260 * | 180 | 70 | 4,9 | 50 | 1,45 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK - M3...2

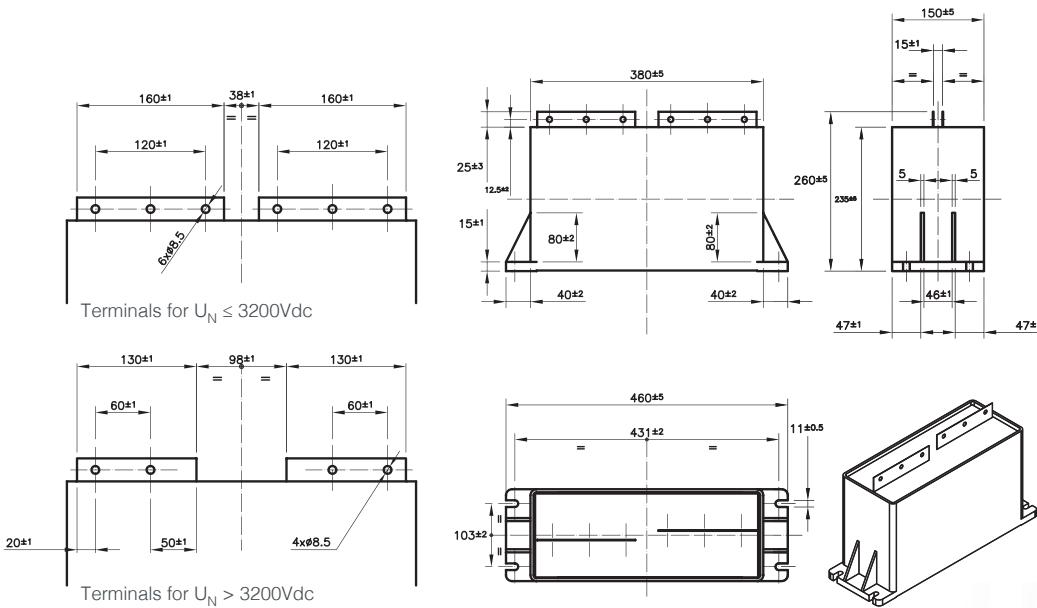
HIGH SPECIFIC CAPACITANCE

| MODEL | U _N : 3000V | | U _S : 4500V | | | | | | | | |
|--------------------|------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-------------|---------------|-------------|--------------------|
| | Capacitance C(µF) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Weight (kg) | Diameter (mm) | Length (mm) | Box quantity (pcs) |
| LNK-M3_2-25-300 | 25 | 30 | 1,5 | 45 | 3,1 | 7,7 | 10 | 0,7 | 85 | 102 | 16 |
| LNK-M3_2-35-300 | 35 | 30 | 1,5 | 45 | 4,6 | 6,4 | 10 | 0,8 | 85 | 127 | 16 |
| LNK-M3_2-40-300 | 40 | 25 | 1,5 | 45 | 5,6 | 6 | 10 | 0,9 | 85 | 137 | 16 |
| LNK-M3_2-47-300 | 47 | 30 | 1,5 | 50 | 4 | 5,5 | 10 | 1 | 85 | 152 | 16 |
| LNK-M3_2-35-300 | 35 | 40 | 2 | 45 | 2,3 | 6,2 | 10 | 1 | 100 | 102 | 9 |
| LNK-M3_2-50-300 | 50 | 35 | 2 | 45 | 3,2 | 5,3 | 10 | 1,1 | 100 | 127 | 9 |
| LNK-M3_2-55-300 | 55 | 35 | 2 | 45 | 4,1 | 5 | 10 | 1,2 | 100 | 137 | 9 |
| LNK-M3_2-65-300 | 65 | 40 | 2 | 50 | 2,9 | 4,6 | 10 | 1,4 | 100 | 152 | 9 |
| LNK-M3_2-75-300 | 75 | 50 | 3 | 45 | 2,2 | 4,5 | 10 | 1,5 | 116 | 127 | 9 |
| LNK-M3_2-85-300 | 85 | 45 | 3 | 45 | 2,7 | 4,2 | 10 | 1,6 | 116 | 137 | 9 |
| LNK-M3_2-90-300 | 90 | 55 | 3 | 50 | 2,2 | 3,8 | 10 | 1,8 | 116 | 152 | 9 |
| LNK-M3_2-130-300 * | 130 | 65 | 4,2 | 50 | 1,65 | 3,1 | 10 | 2,5 | 136 | 152 | 4 |

* Not UL approved

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection).
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and case = 1.414U_N + 1000 x 10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 25°C (for more details see "Selections rules and definitions").

new



LNK – P5Y

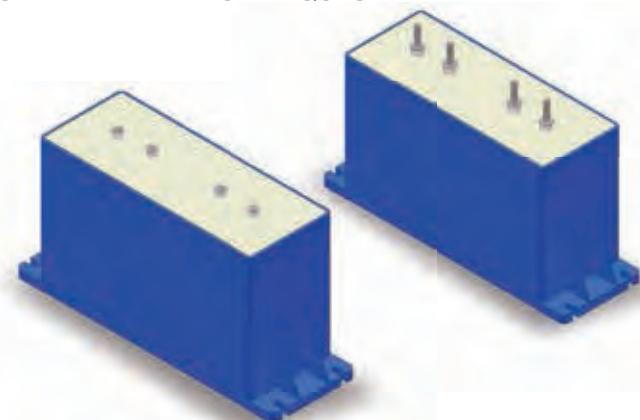
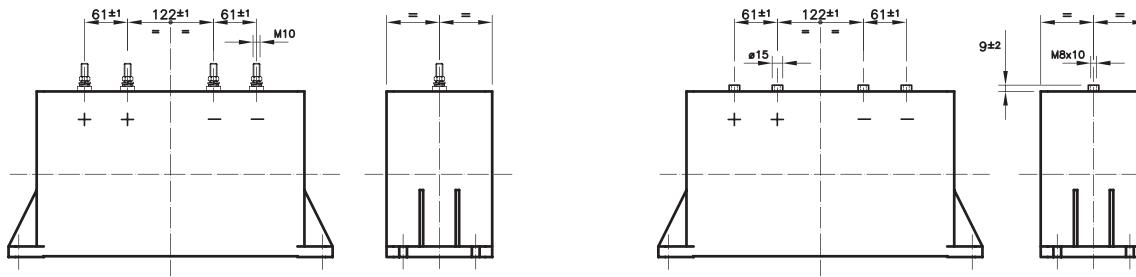
ULfile: E191589

- HIGH CAPACITANCE
- LOW INDUCTANCE CONNECTIONS
- STANDARD CONFIGURATION
- EXTERNAL RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

Failure rate: 100 FIT

Operating temperature -25°C / +70°C
Maximum hot spot 85°C (70°C for 450V and 600V)

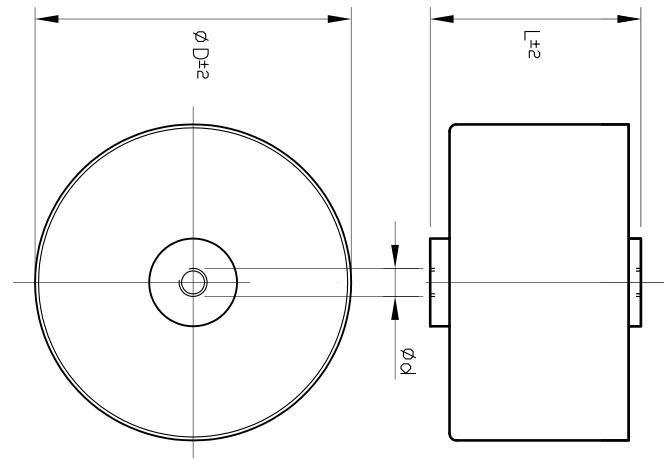
CUSTOM VERSIONS WITH SCREWS OR THREADED HOLES TERMINALS ARE AVAILABLE ON REQUEST



| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|------------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------------------|-------------|--------------------|
| LNK-P5Y-12000-45 | 10000 | 450 | 680 | 300 | 40 | <30 | 0,19 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-10000-60 | 10000 | 600 | 900 | 300 | 39 | <30 | 0,2 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-8000-80 | 8000 | 800 | 1200 | 250 | 34 | <30 | 0,22 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-5500-110 | 5500 | 1100 | 1650 | 250 | 28 | <30 | 0,25 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-5000-130 | 5000 | 1300 | 1950 | 250 | 27 | <30 | 0,26 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-2700-165 | 2700 | 1650 | 2475 | 220 | 21 | <30 | 0,35 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-2000-185 | 2000 | 1850 | 2775 | 200 | 17,5 | <30 | 0,38 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-1600-200 | 1600 | 2000 | 3000 | 200 | 16 | <30 | 0,4 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-1300-220 | 1300 | 2200 | 3300 | 200 | 14,5 | <30 | 0,45 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-900-260 | 900 | 2600 | 3900 | 220 | 24,5 | <30 | 0,28 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-650-300 | 650 | 3000 | 4500 | 220 | 21 | <30 | 0,32 | 1,45 | 20 | 40 | 40 | 8 | 16 | 1 |
| LNK-P5Y-500-340 | 500 | 3400 | 5100 | 200 | 18 | <30 | 0,36 | 1,45 | 20 | 95 | 95 | 8 | 16 | 1 |
| LNK-P5Y-300-400 | 300 | 4000 | 6000 | 180 | 14 | <30 | 0,45 | 1,45 | 20 | 95 | 95 | 8 | 16 | 1 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convention)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h - θ₀ within about 30°C (for more details see "Selections rules and definitions").

New version at 450V, 600V 2000V and 2200V



LNK – P6X

- VERY LOW INDUCTANCE
- 🔥 RESIN COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

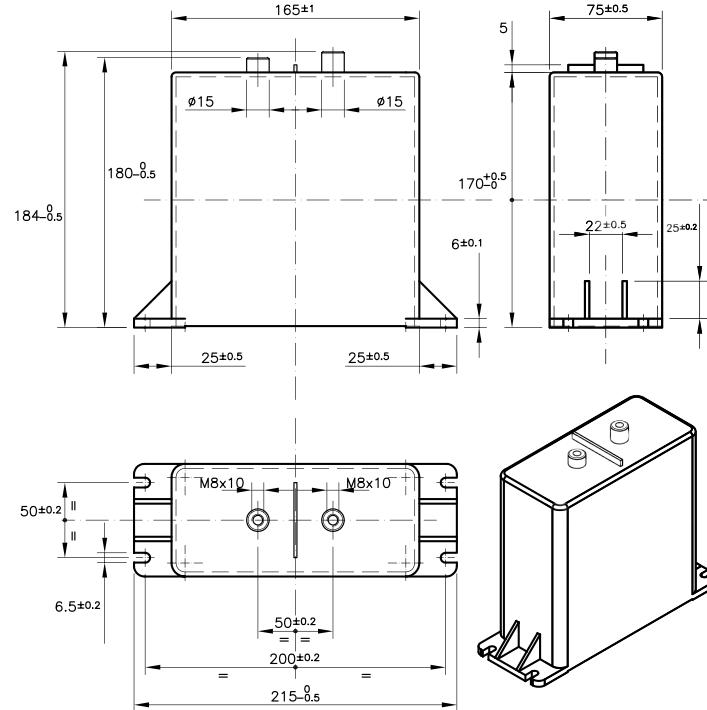
Failure rate: 100 FIT
Operating temperature -25°C / +70°C
Maximum hot spot 85°C (70°C for 450V and 600V)

| MODEL | Capacitance C(μF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Tightening torque (Nm) | Weight (kg) | Terminals | Diameter d | Length (mm) | Box quantity (pcs) |
|----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|------------------------|-------------|-----------|------------|-------------|--------------------|
| LNK-P6X-140-45 | 140 | 450 | 900 | 80 | 3,9 | 15 | 0,6 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-190-45 | 190 | 450 | 900 | 80 | 5,3 | 15 | 0,45 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-230-45 | 230 | 450 | 900 | 90 | 6,4 | 15 | 0,33 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-110-60 | 110 | 600 | 1200 | 80 | 3,5 | 15 | 0,65 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-140-60 | 140 | 600 | 1200 | 80 | 4,5 | 15 | 0,5 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-175-60 | 175 | 600 | 1200 | 90 | 5,7 | 15 | 0,37 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-90-70 | 90 | 700 | 1400 | 80 | 3,1 | 15 | 0,7 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-125-70 | 125 | 700 | 1400 | 80 | 4,4 | 15 | 0,5 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-150-70 | 150 | 700 | 1400 | 80 | 5,3 | 15 | 0,4 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Tightening torque (Nm) | Weight (kg) | Terminals d | Diameter (mm) | Length (mm) | Box quantity (pcs) |
|----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|------------------------|-------------|-------------|---------------|-------------|--------------------|
| LNK-P6X-50-90 | 50 | 900 | 1800 | 55 | 2,2 | 15 | 1 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-75-90 | 75 | 900 | 1800 | 70 | 3,4 | 15 | 0,7 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-100-90 | 100 | 900 | 1800 | 80 | 4,4 | 15 | 0,5 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-33-110 | 33 | 1100 | 2200 | 50 | 1,7 | 15 | 1,3 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-50-110 | 50 | 1100 | 2200 | 60 | 2,7 | 15 | 0,9 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-66-110 | 66 | 1100 | 2200 | 75 | 3,5 | 15 | 0,6 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-30-125 | 30 | 1250 | 2500 | 50 | 1,9 | 15 | 1,6 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-40-125 | 40 | 1250 | 2500 | 55 | 2,5 | 15 | 1,1 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-50-125 | 50 | 1250 | 2500 | 65 | 3,1 | 15 | 0,8 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-20-145 | 20 | 1450 | 2900 | 45 | 1,4 | 15 | 1,6 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-30-145 | 30 | 1450 | 2900 | 55 | 2,1 | 15 | 1,1 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-40-145 | 40 | 1450 | 2900 | 65 | 2,9 | 15 | 0,8 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-15-180 | 15 | 1800 | 3600 | 40 | 1,3 | 15 | 1,7 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-20-180 | 20 | 1800 | 3600 | 50 | 1,8 | 15 | 1,3 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-25-180 | 25 | 1800 | 3600 | 60 | 2,3 | 15 | 1 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-10-200 | 10 | 2000 | 4000 | 40 | 1 | 15 | 1,8 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-15-200 | 15 | 2000 | 4000 | 45 | 1,5 | 15 | 1,6 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-18-200 | 18 | 2000 | 4000 | 50 | 1,8 | 15 | 1,3 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |
| LNK-P6X-9-220 | 9 | 2200 | 4400 | 35 | 0,9 | 15 | 1,9 | 7,3 | 20 | 6 | 0,27 | M6 | 70 | 59 | 25 |
| LNK-P6X-12-220 | 12 | 2200 | 4400 | 40 | 1,3 | 15 | 1,8 | 7 | 20 | 10 | 0,41 | M8 | 80 | 60 | 16 |
| LNK-P6X-15-220 | 15 | 2200 | 4400 | 45 | 1,6 | 15 | 1,4 | 6,7 | 20 | 10 | 0,47 | M8 | 90 | 60 | 16 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convention)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 35°C (for more details see "Selections rules and definitions").

new



LNK - P7Y

ULfile: E191589

- HIGH CURRENT
- DESIGNED FOR BUSBARS CONNECTIONS
- RESIN AND CASE COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545

Failure rate: 100 FIT
Operating temperature -25°C / +80°C
Maximum hot spot 85°C (70°C for 450V and 600V)

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Tightening torque (Nm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|-----------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P7Y-2000-45 | 2000 | 450 | 680 | 150 | 14 | 30 | 0,25 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-1450-60 | 1450 | 600 | 900 | 150 | 12 | 30 | 0,29 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-1200-80 | 1200 | 800 | 1200 | 140 | 11 | 30 | 0,32 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-850-110 | 850 | 1100 | 1650 | 130 | 9,1 | 30 | 0,37 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-600-130 | 600 | 1300 | 1950 | 120 | 7,9 | 30 | 0,42 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-400-165 | 400 | 1650 | 2475 | 110 | 6,5 | 30 | 0,5 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-290-185 | 290 | 1850 | 2775 | 100 | 5,4 | 30 | 0,6 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-220-200 | 220 | 2000 | 3000 | 90 | 4,6 | 30 | 0,7 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |
| LNK-P7Y-180-220 | 180 | 2200 | 3300 | 90 | 4,2 | 30 | 0,75 | 4,1 | 15 | 45 | 35 | 12 | 6 | 2,8 | 8 |

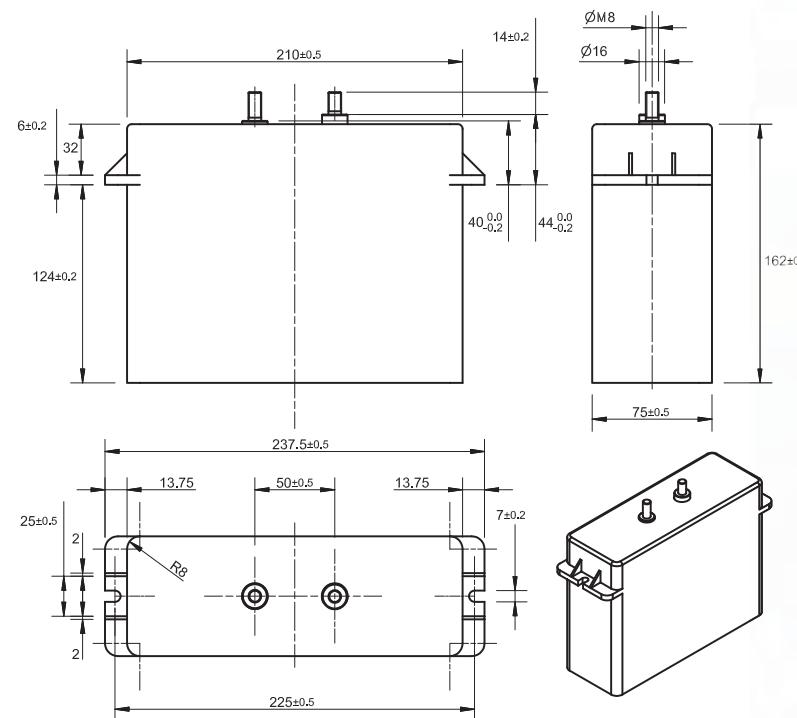
- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 30°C (for more details see "Selections rules and definitions").

new

LNK – P8Y

 ULfile: E191589

- HEAVY DUTY CONSTRUCTION
- DESIGNED FOR BUSBARS CONNECTIONS
- LOW INDUCTANCE
- EXTERNAL RESIN AND CASE COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545



Failure rate: 100 FIT

Operating temperature -25°C / +80°C

Maximum hot spot 85°C (70°C for 450V and 600V)

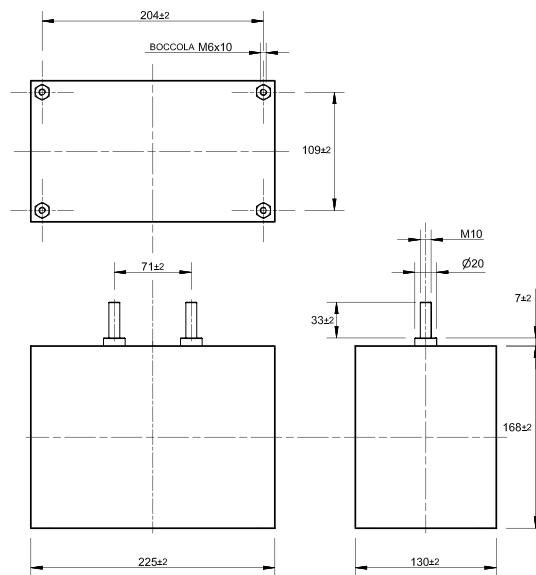
| MODEL | Capacitance C(μF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance R _{th} (°C/W) | Full current Max Working Frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Tightening torque (Nm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|------------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------|------------------------------------|-------------|--------------------|
| LNK-P8Y-2200-45 | 2200 | 450 | 680 | 150 | 15 | 30 | 0,24 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-1700-60 | 1700 | 600 | 900 | 150 | 14 | 30 | 0,26 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-1500-80 | 1500 | 800 | 1200 | 150 | 13,5 | 30 | 0,27 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-1000-110 | 1000 | 1100 | 1650 | 140 | 10,7 | 30 | 0,33 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-680-130 | 680 | 1300 | 1950 | 130 | 9 | 30 | 0,39 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-430-165 | 430 | 1650 | 2475 | 115 | 7 | 30 | 0,48 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-330-185 | 330 | 1850 | 2775 | 110 | 6,1 | 30 | 0,53 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-250-200 | 250 | 2000 | 3000 | 100 | 5,2 | 30 | 0,62 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |
| LNK-P8Y-200-220 | 200 | 2200 | 3300 | 95 | 4,7 | 30 | 0,68 | 3,4 | 15 | 34 | 34 | 12 | 6 | 3,8 | 6 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 25°C (for more details see "Selections rules and definitions").

LNK – P9X

 ULfile: E191589

- HIGH CURRENT
- LOW INDUCTANCE
- DESIGNED FOR BUSBARS CONNECTIONS
- EXTERNAL RESIN AND CASE COMPLIES WITH REQUIREMENT R22, HL2 ACCORDING TO EN 45545



Failure rate: 300 FIT
Operating temperature -25°C / +80°C
Maximum hot spot 85°C

| MODEL | Capacitance C(µF) | Rated DC voltage U _N (V) | Peak voltage U _S (V) | Max rms current I _{max} (A) | Peak current I _{PK} (A) | Self inductance L _s (nH) | Series resistance R _s (mΩ) | Thermal resistance with natural cooling R _{thn} (°C/W) | Full current max working frequency (KHz) | Creepage between terminals (mm) | Clearence (mm) | Fixing feet tightening torque (Nm) | Weight (kg) | Box quantity (pcs) |
|------------------|-------------------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|---------------------------------|----------------|------------------------------------|-------------|--------------------|
| LNK-P9X-3000-80 | 3000 | 800 | 1400 | 150 | 14500 | <30 | 0,32 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-1750-100 | 1750 | 1000 | 2000 | 150 | 11000 | <30 | 0,41 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-1350-110 | 1350 | 1100 | 2200 | 150 | 9500 | <30 | 0,46 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-1250-120 | 1250 | 1200 | 2400 | 150 | 9500 | <30 | 0,46 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-850-140 | 850 | 1400 | 2800 | 140 | 7500 | <30 | 0,56 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-650-160 | 650 | 1600 | 3200 | 135 | 6500 | <30 | 0,63 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-500-180 | 500 | 1800 | 3600 | 125 | 11000 | <30 | 0,71 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-400-200 | 400 | 2000 | 4000 | 120 | 10000 | <30 | 0,79 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-330-220 | 330 | 2200 | 4400 | 150 | 13500 | <30 | 0,27 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-300-240 | 300 | 2400 | 4800 | 150 | 13000 | <30 | 0,28 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-220-270 | 220 | 2700 | 5400 | 150 | 11000 | <30 | 0,30 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-200-280 | 200 | 2800 | 5600 | 150 | 10000 | <30 | 0,38 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-150-320 | 150 | 3200 | 6400 | 150 | 8500 | <30 | 0,38 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |
| LNK-P9X-120-350 | 120 | 3500 | 7000 | 150 | 8000 | <30 | 0,41 | 2,75 | 10 | 51 | 51 | 6 | 6,5 | 4 |

- In case of doubt regarding the full current maximum working frequency, please contact ICAR Tech. Dept. for de-rating according to current spectrum
- The thermal resistance is estimated considering the capacitor alone, not fixed and in free air condition (natural convection)
- Routine dielectric test: DC voltage test between terminals = 1.5 U_N x 10 s, AC voltage test between terminals and fixing bolts = 1.414U_N + 1000 x10s or 2000V whichever is the highest value
- I_{max} has been calculated for a thermal rise θ_h – θ₀ within about 35°C (for more details see "Selections rules and definitions").

Custom DC link capacitors

Beside the standard products shown in this catalogue, ICAR produces also a wide range of custom capacitors. ICAR technical department is ready to support customers in developing capacitors based on their requests and specifications.

Custom capacitors for DC link are grouped as follows:

- **LNK-P** series are the capacitors based on the same technology as standard products: metallised polypropylene film, plastic case, dry type resin filled. Customization is mostly related to connections, capacitance value and other special characteristics; the cases are the same used in the standard series.
- **LNK-M** series are metallised polypropylene film, metal cases (aluminium or steel) capacitors, dry type resin filled. Beside the personalization of the P series, the metal case allows our designers to follow mechanical requirements of the customer without any investment related to the plastic case mould.
- **BIOENERGY-D65** series are metallised polypropylene film, metal case (aluminium or steel) capacitors, oil filled. This solution is generally suggested for higher voltage applications

The range of our customized products is extremely wide and covers most of the possible requirements in the railway and traction equipments, industrial drives, wind and solar inverters, special industrial plants.

For any further information please contact our sales department: sales@icar.com.



Warning

DO NOT MISAPPLY CAPACITORS FOR POWER ELECTRONICS

Icar is not responsible for any kind of possible damages to persons or things, derived from the improper installation and application of Power Electronics capacitors

MOST COMMON MISAPPLICATION FORMS:

- Ripple current and peak current beyond specification or not according the maximum power that can be dissipated.
- Surge or working voltage beyond specified value.
- Hot spot or storage temperature beyond the specified limits or not according the maximum power that can be dissipated.
- Incorrect mounting or wrong installation
 - installation nearby hot components or heat sources
 - not suitable connections (not adequate cable or busbars cross section)
 - nuts and washers material, shape or size not suitable for the application
 - tightening torque not according to the specification
- Unusual service conditions as:
 - mechanical shock and vibrations
 - corrosive or abrasive conductive parts in cooling air
 - oil or water vapour or corrosive substances
 - explosive gas or dust
 - radioactivity
 - excessive and fast variations of ambient conditions
 - areas higher than 2000 m above sea level

Periodic check of the connection conditions and tightening torque is strongly recommended.

In case of doubt in the right capacitor **Icar technical service MUST be contacted.**

DISCLAIMER

All the information and data shown in this catalogue are not binding and can be modified without notice.
Contact ICAR sales department to get updated specifications.
Reliability data by ICAR are based on statistical evaluations, and does not guarantee performances of each single component.

All the products described in the catalogue shall be used within the limits stated in the technical specifications, nevertheless it is that a failure or an abnormal operation, even when capacitors are working within the specified limits, cannot be completely excluded or foreseen at the current state of the art of technology.

Capacitors may become hazardous.
Most common risks are related to combustible gas generation, explosion, fire, electrocution or abnormal operation of the capacitor. In order to reduce the risk of explosion, capacitors shall not be mounted in hermetically sealed enclosure with no air exchange. Not all the possible risks and safety measures are mentioned in this catalogue, further information are available on request. It is on customer responsibility to select and take all the necessary safety measures in order to avoid any possible personal injury or property damage related to the use of capacitors.
This is particularly valid in for applications in which a failure or an abnormal operation of the capacitors could put at risk human life or health.

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ICAR reserves the right to discontinue the production of any item without notice. All orders are subject to ICAR General Conditions of Sales – latest revision.

NOTES



amelec Electronic GmbH
Brunnwiesenstrasse 6A
CH-8157 Dielsdorf

Tel.: +41 44 862 00 62
Fax: +41 44 862 00 63
E-Mail: info@amelec.ch
www.amelec.ch



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