

PPS

Metallized polypropylene film capacitor

MKP - Switching / Snubber - High current



Main applications

Snubber, energy conversion and control in power semiconductor circuits, industrial and motor speed controls, SMPS, induction heaters, high voltage, high current and medium-high pulse applications

Dielectric

Polypropylene

Electrodes

Vacuum deposited metal layers

Coating

UL 510 / CSA TIL I-26 polyester tape wrapping; UL 94 V-0 resin end fill (flame retardant execution)

Construction

Extended metallized film with internal series connection (refer to general technical information)

Terminals

Tinned copper wire (lead free)

Degree of protection

IP00

Installation

Whatever position assuring correct heat dissipation. Arrangement of many components with surfaces in contact not admitted; suggested minimum distance between side by side elements $\geq 1/12$ of the diameter size

Reference standard

IEC 61071, IEC 60068, RoHS compliant

Climatic category

40/85/56 (IEC 60068/1), GPD (DIN40040)

Operating temperature range (case)

-40°...+85°C

Max. permissible ambient temperature

+70°C (operation at rated power, current, voltage and natural cooling)

Rated capacitance (Cr)

0,0068µF to 10µF. Refer to article table

Capacitance tolerance (at 1kHz)

$\pm 10\%$ (code=K), $\pm 5\%$ (code=J) and $\pm 20\%$ (code=M). Other tolerances upon request

Capacitance temperature coefficient

Refer to graphs in general technical information

Long term stability (at 1 kHz)

Capacitance variation $\leq \pm 1\%$ after a period of 2 years at standard environmental conditions

Rated voltage (Ur)

700, 850, 1000, 1200, 1500, 2000, 2500, 3000 Vdc

Non recurrent surge voltage (Upk)

1100, 1300, 1550, 1750, 2200, 2600, 3300, 4000 Vdc

Self inductance

≤ 1 nH/mm of capacitor and leads length used for connection

Maximum pulse rise time

Refer to article table

Maximum peak current (Ipeak)

Refer to article table. Max. non repetitive $I_{pk} = 1,5 \times I_{peak}$

Dissipation factor (DF), max.

$Tg\delta \times 10^{-4}$, measured at $25 \pm 5^\circ\text{C}$, 1kHz

| | |
|--------------------------|-----------------------|
| $Cr \leq 1,5\mu\text{F}$ | $Cr > 1,5\mu\text{F}$ |
| 5 | 7 |

Insulation resistance (IR)

$\geq 30'000$ s but need not exceed $30\text{G}\Omega$ (typical value), after 1 minute of electrification at 100Vdc ($25 \pm 5^\circ\text{C}$)

Test voltage between terminals (Ut)

$1,6 \times U_r$ (DC) applied for 10s / $2 \times U_r$ (DC) applied for 2s, at $25 \pm 5^\circ\text{C}$

Test voltage between terminals and case (Utc)

3kV 50=60Hz applied for 60s at $25 \pm 5^\circ\text{C}$

Damp heat test (steady state)

Test conditions:

Temperature= $+40 \pm 2^\circ\text{C}$

Relative humidity= $93 \pm 2\%$

Test duration= 56 days

Performance:

Capacitance change $\leq \pm 2\%$

DF change ≤ 0.0010 at 1kHz

IR $\geq 50\%$ of initial limit value

Typical capacitance change versus operating time

-3% after 30'000 hours at Urms or after 100'000 hours at Ur

Life expectancy

$\geq 100'000$ hours (Un); 30'000 hours (Urms)

Failure quota

$300/10^9$ component hours

Resistance to soldering heat test

Test conditions:

Solder bath temperature= $+260 \pm 5^\circ\text{C}$

Dipping time (with heat screen)= 10 ± 1 s

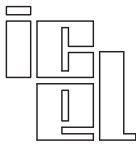
Performance:

Capacitance change $\leq \pm 1\%$

DF change ≤ 0.0010 at 1kHz

IR $\geq 50\%$ of initial limit value

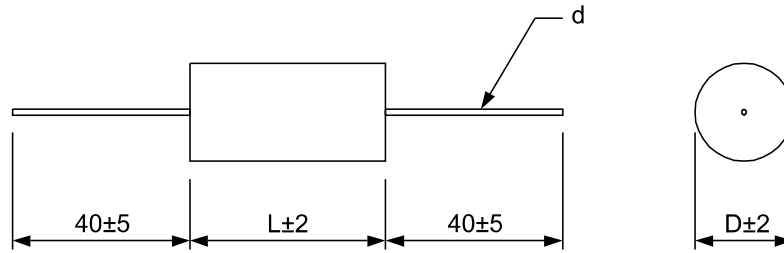
Warning: this specification must be completed with the data given in the "General technical information" chapter



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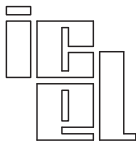


PPS article table (different values available upon request)

| Ur Vdc | Urms Vac ⁽⁴⁾ | Upk Vdc | Cap. μF | Dimension in mm | | | du/dt V/μs | Ipeak A | Irms ⁽²⁾ A | ESR ⁽³⁾ mΩ | ICEL Code ⁽¹⁾ |
|-----------|----------------------------|------------|------------|-----------------|----|-----|---------------|------------|--------------------------|--------------------------|--------------------------|
| | | | | D | L | d | | | | | |
| 700 | 420 | 1100 | 0,15 | 9,5 | 27 | 0,8 | 235 | 35,2 | 3,5 | 11 | PPS1703150*G |
| 700 | 420 | 1100 | 0,22 | 11 | 27 | 0,8 | 235 | 51,7 | 4,5 | 8,7 | PPS1703220*G |
| 700 | 420 | 1100 | 0,33 | 13 | 27 | 0,8 | 235 | 77,5 | 5,5 | 6,7 | PPS1703330*G |
| 700 | 420 | 1100 | 0,33 | 11 | 32 | 0,8 | 185 | 61 | 5,5 | 7,4 | PPS1703330*J |
| 700 | 420 | 1100 | 0,47 | 15,5 | 27 | 0,8 | 235 | 110,4 | 7 | 5,3 | PPS1703470*G |
| 700 | 420 | 1100 | 0,47 | 13 | 32 | 0,8 | 185 | 87 | 6,5 | 5,9 | PPS1703470*J |
| 700 | 420 | 1100 | 0,68 | 15,5 | 32 | 1 | 185 | 126 | 8 | 4,9 | PPS1703680*J |
| 700 | 420 | 1100 | 1 | 19 | 32 | 1 | 185 | 185 | 10 | 4,1 | PPS1704100*J |
| 700 | 420 | 1100 | 1 | 15,5 | 44 | 1 | 130 | 130 | 10 | 4,8 | PPS1704100*N |
| 700 | 420 | 1100 | 1,5 | 23 | 32 | 1 | 185 | 277 | 10,5 | 3,5 | PPS1704150*J |
| 700 | 420 | 1100 | 1,5 | 19 | 44 | 1 | 130 | 195 | 10,5 | 4,3 | PPS1704150*N |
| 700 | 420 | 1100 | 2 | 22 | 44 | 1 | 130 | 260 | 10,5 | 4 | PPS1704200*N |
| 700 | 420 | 1100 | 2,2 | 23 | 44 | 1 | 130 | 286 | 10,5 | 3,9 | PPS1704220*N |
| 700 | 420 | 1100 | 2,5 | 24,5 | 44 | 1,2 | 130 | 325 | 14 | 3,5 | PPS1704250*N |
| 700 | 420 | 1100 | 3 | 27 | 44 | 1,2 | 130 | 390 | 14 | 3,3 | PPS1704300*N |
| 700 | 420 | 1100 | 3,3 | 28 | 44 | 1,2 | 130 | 429 | 14 | 3,1 | PPS1704330*N |
| 700 | 420 | 1100 | 3,3 | 24,5 | 53 | 1,2 | 110 | 363 | 14 | 3,9 | PPS1704330*R |
| 700 | 420 | 1100 | 3,3 | 23 | 57 | 1,2 | 90 | 297 | 13,5 | 4,4 | PPS1704330*S |
| 700 | 420 | 1100 | 4 | 30,5 | 44 | 1,2 | 130 | 520 | 14 | 2,8 | PPS1704400*N |
| 700 | 420 | 1100 | 4 | 26,5 | 53 | 1,2 | 110 | 440 | 14 | 3,6 | PPS1704400*R |
| 700 | 420 | 1100 | 4 | 25 | 57 | 1,2 | 90 | 360 | 14 | 4,1 | PPS1704400*S |
| 700 | 420 | 1100 | 4,7 | 29 | 53 | 1,2 | 110 | 517 | 14 | 3,3 | PPS1704470*R |
| 700 | 420 | 1100 | 4,7 | 27 | 57 | 1,2 | 90 | 423 | 14 | 3,7 | PPS1704470*S |
| 700 | 420 | 1100 | 5 | 30 | 53 | 1,2 | 110 | 550 | 14 | 3,2 | PPS1704500*R |
| 700 | 420 | 1100 | 5 | 28 | 57 | 1,2 | 90 | 450 | 14 | 3,6 | PPA1704500*S |
| 700 | 420 | 1100 | 6,8 | 35 | 53 | 1,2 | 110 | 748 | 14 | 2,7 | PPS1704680*R |
| 700 | 420 | 1100 | 6,8 | 32,5 | 57 | 1,2 | 90 | 612 | 14 | 3,1 | PPS1404680*S |
| 700 | 420 | 1100 | 8,2 | 38,5 | 53 | 1,2 | 110 | 902 | 14 | 2,4 | PPS1704820*R |
| 700 | 420 | 1100 | 8,2 | 36 | 57 | 1,2 | 90 | 738 | 14 | 2,7 | PPS1704820*S |
| 700 | 420 | 1100 | 10 | 39,5 | 57 | 1,2 | 90 | 900 | 14 | 2,5 | PPS1705100*S |
| 850 | 500 | 1300 | 0,1 | 9,5 | 27 | 0,8 | 375 | 37,5 | 3,5 | 12,9 | PPS1853100*G |
| 850 | 500 | 1300 | 0,15 | 11 | 27 | 0,8 | 375 | 56,2 | 4,5 | 9,8 | PPS1853150*G |
| 850 | 500 | 1300 | 0,15 | 10 | 32 | 0,8 | 300 | 45 | 4,5 | 10,8 | PPS1853150*J |
| 850 | 500 | 1300 | 0,22 | 13 | 27 | 0,8 | 375 | 82,5 | 5,5 | 7,7 | PPS1853220*G |
| 850 | 500 | 1300 | 0,22 | 11,5 | 32 | 0,8 | 300 | 65 | 5,5 | 8,4 | PPS1853220*J |
| 850 | 500 | 1300 | 0,33 | 15,5 | 27 | 0,8 | 375 | 123,7 | 7 | 5,9 | PPS1853330*G |
| 850 | 500 | 1300 | 0,33 | 14 | 32 | 0,8 | 300 | 99 | 7 | 6,6 | PPS1853330*J |
| 850 | 500 | 1300 | 0,47 | 16,5 | 32 | 1 | 300 | 141 | 9 | 5,4 | PPS1853470*J |
| 850 | 500 | 1300 | 0,68 | 19,5 | 32 | 1 | 300 | 204 | 10 | 4,3 | PPS1853680*J |
| 850 | 500 | 1300 | 0,68 | 16 | 44 | 1 | 200 | 136 | 9 | 5,4 | PPS1853680*N |
| 850 | 500 | 1300 | 1 | 24 | 32 | 1,2 | 300 | 300 | 13 | 3,3 | PPS1854100*J |
| 850 | 500 | 1300 | 1 | 19,5 | 44 | 1 | 200 | 200 | 10,5 | 4,3 | PPS1854100*N |
| 850 | 500 | 1300 | 1,5 | 23,5 | 44 | 1,2 | 200 | 300 | 14 | 3,5 | PPS1854150*N |
| 850 | 500 | 1300 | 2 | 27 | 44 | 1,2 | 200 | 400 | 14 | 2,9 | PPS1854200*N |
| 850 | 500 | 1300 | 2,2 | 28 | 44 | 1,2 | 200 | 440 | 14 | 2,9 | PPS1854220*N |
| 850 | 500 | 1300 | 2,2 | 24,5 | 53 | 1,2 | 125 | 275 | 14 | 3,8 | PPS1854220*R |
| 850 | 500 | 1300 | 2,2 | 23 | 57 | 1,2 | 110 | 242 | 14 | 4,3 | PPS1854220*S |
| 850 | 500 | 1300 | 2,5 | 30 | 44 | 1,2 | 200 | 500 | 14 | 2,7 | PPS1854250*N |
| 850 | 500 | 1300 | 2,5 | 26 | 53 | 1,2 | 125 | 312 | 14 | 3,6 | PPS1854250*R |
| 850 | 500 | 1300 | 2,5 | 24,5 | 57 | 1,2 | 110 | 275 | 14 | 4,1 | PPS1854250*S |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Maximum values at 100kHz, +70°C, C tol. ≤ ±10% (for wider C tolerances, ESR variation must be taken in consideration)- ⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related different power dissipation must be taken in consideration)- ⁽⁴⁾Not suitable for across the line application.



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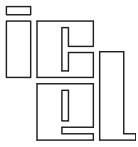
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| Ur Vdc | Urms Vac ⁽⁴⁾ | Upk Vdc | Cap. μF | Dimension in mm | | | du/dt V/μs | Ipeak A | Irms ⁽²⁾ A | ESR ⁽³⁾ mΩ | ICEL Code ⁽¹⁾ |
|-----------|----------------------------|------------|------------|-----------------|----|-----|---------------|------------|--------------------------|--------------------------|--------------------------|
| | | | | D | L | d | | | | | |
| 850 | 500 | 1300 | 3 | 32,5 | 44 | 1,2 | 200 | 600 | 14 | 2,4 | PPS1854300*N |
| 850 | 500 | 1300 | 3 | 28,5 | 53 | 1,2 | 125 | 375 | 14 | 3,2 | PPS1854300*R |
| 850 | 500 | 1300 | 3 | 27 | 57 | 1,2 | 110 | 330 | 14 | 3,6 | PPS1854300*S |
| 850 | 500 | 1300 | 3,3 | 30 | 53 | 1,2 | 125 | 412 | 14 | 3,1 | PPS1854330*R |
| 850 | 500 | 1300 | 3,3 | 28 | 57 | 1,2 | 110 | 363 | 14 | 3,5 | PPS1854330*S |
| 850 | 500 | 1300 | 4 | 33 | 53 | 1,2 | 125 | 500 | 14 | 2,8 | PPS1854400*R |
| 850 | 500 | 1300 | 4 | 31 | 57 | 1,2 | 110 | 440 | 14 | 3,1 | PPS1854400*S |
| 850 | 500 | 1300 | 4,7 | 35 | 53 | 1,2 | 125 | 587 | 14 | 2,5 | PPS1854470*R |
| 850 | 500 | 1300 | 4,7 | 33,5 | 57 | 1,2 | 110 | 517 | 14 | 2,8 | PPS1854470*S |
| 850 | 500 | 1300 | 5 | 36 | 53 | 1,2 | 125 | 625 | 14 | 2,4 | PPS1854500*R |
| 850 | 500 | 1300 | 5 | 34,5 | 57 | 1,2 | 110 | 550 | 14 | 2,7 | PPS1854500*S |
| 850 | 500 | 1300 | 6,8 | 39,5 | 57 | 1,2 | 110 | 748 | 14 | 2,3 | PPS1854680*S |
| 1000 | 525 | 1550 | 0,068 | 9,5 | 27 | 0,8 | 425 | 28,9 | 3 | 16,7 | PPS2102680*G |
| 1000 | 525 | 1550 | 0,1 | 11 | 27 | 0,8 | 425 | 42,5 | 3,5 | 12,4 | PPS2103100*G |
| 1000 | 525 | 1550 | 0,15 | 13 | 27 | 0,8 | 425 | 63,7 | 5 | 9,3 | PPS2103150*G |
| 1000 | 525 | 1550 | 0,15 | 11 | 32 | 0,8 | 340 | 51 | 4,5 | 10,3 | PPS2103150*J |
| 1000 | 525 | 1550 | 0,22 | 15 | 27 | 0,8 | 425 | 93,5 | 6,5 | 7 | PPS2103220*G |
| 1000 | 525 | 1550 | 0,22 | 13 | 32 | 0,8 | 340 | 74,8 | 6 | 7,7 | PPS2103220*J |
| 1000 | 525 | 1550 | 0,33 | 15,5 | 32 | 1 | 340 | 112 | 7,5 | 5,8 | PPS2103330*J |
| 1000 | 525 | 1550 | 0,47 | 19 | 32 | 1 | 340 | 160 | 9,5 | 4,6 | PPS2103470*J |
| 1000 | 525 | 1550 | 0,47 | 15,5 | 44 | 1 | 225 | 106 | 9 | 5,8 | PPS2103470*N |
| 1000 | 525 | 1550 | 0,68 | 22,5 | 32 | 1 | 340 | 231 | 10,5 | 3,8 | PPS2103680*J |
| 1000 | 525 | 1550 | 0,68 | 18,5 | 44 | 1 | 225 | 153 | 10,5 | 4,9 | PPS2103680*N |
| 1000 | 525 | 1550 | 1 | 22,5 | 44 | 1,2 | 225 | 225 | 13 | 3,9 | PPS2104100*N |
| 1000 | 525 | 1550 | 1,5 | 27,5 | 44 | 1,2 | 225 | 337 | 14 | 3,1 | PPS2104150*N |
| 1000 | 525 | 1550 | 1,5 | 23,5 | 53 | 1,2 | 165 | 247 | 14 | 4,1 | PPS2104150*R |
| 1000 | 525 | 1550 | 1,5 | 22,5 | 57 | 1,2 | 135 | 202,5 | 13 | 4,7 | PPS2104150*S |
| 1000 | 525 | 1550 | 2 | 31 | 44 | 1,2 | 225 | 450 | 14 | 2,6 | PPS2104200*N |
| 1000 | 525 | 1550 | 2 | 27 | 53 | 1,2 | 165 | 330 | 14 | 3,5 | PPS2104200*R |
| 1000 | 525 | 1550 | 2 | 25,5 | 57 | 1,2 | 135 | 270 | 14 | 3,9 | PPS2104200*S |
| 1000 | 525 | 1550 | 2,2 | 28,5 | 53 | 1,2 | 165 | 363 | 14 | 3,4 | PPS2104220*R |
| 1000 | 525 | 1550 | 2,2 | 26,5 | 57 | 1,2 | 135 | 297 | 14 | 3,8 | PPS2104220*S |
| 1000 | 525 | 1550 | 2,5 | 31 | 53 | 1,2 | 165 | 412 | 14 | 3,1 | PPS2104250*R |
| 1000 | 525 | 1550 | 2,5 | 29 | 57 | 1,2 | 135 | 337,5 | 14 | 3,5 | PPS2104250*S |
| 1000 | 525 | 1550 | 3 | 33,5 | 53 | 1,2 | 165 | 495 | 14 | 2,8 | PPS2104300*R |
| 1000 | 525 | 1550 | 3 | 31 | 57 | 1,2 | 135 | 405 | 14 | 3,1 | PPS2104300*S |
| 1000 | 525 | 1550 | 3,3 | 34,5 | 53 | 1,2 | 165 | 544 | 14 | 2,7 | PPS2104330*R |
| 1000 | 525 | 1550 | 3,3 | 32,5 | 57 | 1,2 | 135 | 445,5 | 14 | 3,0 | PPS2104330*S |
| 1000 | 525 | 1550 | 4 | 38 | 53 | 1,2 | 165 | 660 | 14 | 2,4 | PPS2104400*R |
| 1000 | 525 | 1550 | 4 | 36 | 57 | 1,2 | 135 | 540 | 14 | 2,7 | PPS2104400*S |
| 1000 | 525 | 1550 | 4,7 | 38,5 | 57 | 1,2 | 135 | 634,5 | 14 | 2,4 | PPS2104470*S |
| 1200 | 550 | 1750 | 0,047 | 9 | 27 | 0,8 | 480 | 22,5 | 2,5 | 20,5 | PPS2122470*G |
| 1200 | 550 | 1750 | 0,068 | 10,5 | 27 | 0,8 | 480 | 32,6 | 3 | 15,8 | PPS2122680*G |
| 1200 | 550 | 1750 | 0,1 | 12,5 | 27 | 0,8 | 480 | 48 | 4,5 | 12 | PPS2123100*G |
| 1200 | 550 | 1750 | 0,1 | 10,5 | 32 | 0,8 | 390 | 39 | 4 | 13,5 | PPS2123100*J |
| 1200 | 550 | 1750 | 0,15 | 15 | 27 | 0,8 | 485 | 72,7 | 5,5 | 8,8 | PPS2123150*G |
| 1200 | 550 | 1750 | 0,15 | 12,5 | 32 | 0,8 | 390 | 58,5 | 5 | 9,8 | PPS2123150*J |
| 1200 | 550 | 1750 | 0,22 | 15 | 32 | 0,8 | 390 | 85,8 | 6,5 | 7,1 | PPS2123220*J |
| 1200 | 550 | 1750 | 0,33 | 18,5 | 32 | 1 | 390 | 129 | 8,5 | 5,3 | PPS2123330*J |
| 1200 | 550 | 1750 | 0,33 | 15 | 44 | 1 | 255 | 84,2 | 8 | 6,7 | PPS2123330*N |
| 1200 | 550 | 1750 | 0,47 | 21,5 | 32 | 1 | 390 | 183 | 10,5 | 3,7 | PPS2123470*J |
| 1200 | 550 | 1750 | 0,47 | 18 | 44 | 1 | 255 | 120 | 9,5 | 5,6 | PPS2123470*N |
| 1200 | 550 | 1750 | 0,68 | 21 | 44 | 1 | 255 | 173 | 10,5 | 4,9 | PPS2123680*N |
| 1200 | 550 | 1750 | 1 | 25,5 | 44 | 1,2 | 255 | 255 | 13,5 | 4,1 | PPS2124100*N |
| 1200 | 550 | 1750 | 1,2 | 28 | 44 | 1,2 | 255 | 306 | 14 | 3,7 | PPS2124120*N |
| 1200 | 550 | 1750 | 1,5 | 31,5 | 44 | 1,2 | 255 | 383 | 14 | 3,2 | PPS2124150*N |
| 1200 | 550 | 1750 | 1,5 | 27 | 53 | 1,2 | 190 | 285 | 14 | 3,7 | PPS2124150*R |
| 1200 | 550 | 1750 | 1,5 | 25 | 57 | 1,2 | 150 | 225 | 14 | 4,2 | PPS2124150*S |
| 1200 | 550 | 1750 | 2 | 31 | 53 | 1,2 | 190 | 380 | 14 | 3,2 | PPS2124200*R |
| 1200 | 550 | 1750 | 2 | 29 | 57 | 1,2 | 150 | 300 | 14 | 3,6 | PPS2124200*S |
| 1200 | 550 | 1750 | 2,2 | 32,5 | 53 | 1,2 | 190 | 418 | 14 | 3 | PPS2124220*R |
| 1200 | 550 | 1750 | 2,2 | 30,5 | 57 | 1,2 | 150 | 330 | 14 | 3,4 | PPS2124220*S |
| 1200 | 550 | 1750 | 2,5 | 34,5 | 53 | 1,2 | 190 | 475 | 14 | 2,7 | PPS2124250*R |
| 1200 | 550 | 1750 | 2,5 | 32,5 | 57 | 1,2 | 150 | 375 | 14 | 3,0 | PPS2124250*S |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Maximum values at 100kHz, +70°C, C tol. ≤ ±10% (for wider C tolerances, ESR variation must be taken in consideration)- ⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related different power dissipation must be taken in consideration)- ⁽⁴⁾Not suitable for across the line application.



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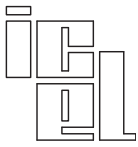
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| Ur Vdc | Urms Vac ⁽⁴⁾ | Upk Vdc | Cap. μ F | Dimension in mm | | | du/dt V/ μ s | Ipeak A | Irms ⁽²⁾ A | ESR ⁽³⁾ m Ω | ICEL Code ⁽¹⁾ |
|--------|-------------------------|---------|--------------|-----------------|----|-----|------------------|---------|-----------------------|-------------------------------|--------------------------|
| | | | | D | L | d | | | | | |
| 1200 | 550 | 1750 | 3 | 38 | 53 | 1,2 | 190 | 570 | 14 | 2,4 | PPS2124300*R |
| 1200 | 550 | 1750 | 3 | 35,5 | 57 | 1,2 | 150 | 450 | 14 | 2,7 | PPS2124300*S |
| 1200 | 550 | 1750 | 3,3 | 39,5 | 53 | 1,2 | 190 | 627 | 14 | 2,3 | PPS2124330*R |
| 1200 | 550 | 1750 | 3,3 | 37 | 57 | 1,2 | 150 | 495 | 14 | 2,6 | PPS2124330*S |
| 1500 | 600 | 2200 | 0,033 | 9,5 | 27 | 0,8 | 610 | 20,1 | 2,5 | 26 | PPS2152330*G |
| 1500 | 600 | 2200 | 0,047 | 11 | 27 | 0,8 | 610 | 28,6 | 3 | 19,5 | PPS2152470*G |
| 1500 | 600 | 2200 | 0,068 | 12,5 | 27 | 0,8 | 610 | 41,5 | 3,5 | 14,5 | PPS2152680*G |
| 1500 | 600 | 2200 | 0,068 | 10,5 | 32 | 0,8 | 490 | 33,3 | 3,5 | 16,1 | PPS2152680*J |
| 1500 | 600 | 2200 | 0,1 | 15,5 | 27 | 0,8 | 610 | 61 | 5 | 10,9 | PPS2153100*G |
| 1500 | 600 | 2200 | 0,1 | 12,5 | 32 | 0,8 | 490 | 49 | 4,5 | 12 | PPS2153100*J |
| 1500 | 600 | 2200 | 0,15 | 15,5 | 32 | 1 | 490 | 73,5 | 6 | 8,7 | PPS2153150*J |
| 1500 | 600 | 2200 | 0,22 | 18,5 | 32 | 1 | 490 | 108 | 8 | 6,5 | PPS2153220*J |
| 1500 | 600 | 2200 | 0,22 | 15 | 44 | 1 | 320 | 70,4 | 7,5 | 8,5 | PPS2153220*N |
| 1500 | 600 | 2200 | 0,33 | 22,5 | 32 | 1 | 490 | 162 | 10 | 4,8 | PPS2153330*J |
| 1500 | 600 | 2200 | 0,33 | 18,5 | 44 | 1 | 320 | 106 | 9 | 6,4 | PPS2153330*N |
| 1500 | 600 | 2200 | 0,47 | 22 | 44 | 1,2 | 320 | 150 | 11,5 | 5,1 | PPS2153470*N |
| 1500 | 600 | 2200 | 0,68 | 26 | 44 | 1,2 | 320 | 218 | 13,5 | 4,4 | PPS2153680*N |
| 1500 | 600 | 2200 | 1 | 31,5 | 44 | 1,2 | 320 | 320 | 14 | 3,3 | PPS2154100*N |
| 1500 | 600 | 2200 | 1 | 27 | 53 | 1,2 | 235 | 235 | 14 | 4,5 | PPS2154100*R |
| 1500 | 600 | 2200 | 1 | 26 | 57 | 1,2 | 175 | 175 | 13,5 | 5,1 | PPS2154100*S |
| 1500 | 600 | 2200 | 1,2 | 29,5 | 53 | 1,2 | 235 | 282 | 14 | 4 | PPS2154120*R |
| 1500 | 600 | 2200 | 1,2 | 28 | 57 | 1,2 | 175 | 210 | 14 | 4,5 | PPS2154120*S |
| 1500 | 600 | 2200 | 1,5 | 33,5 | 53 | 1,2 | 235 | 353 | 14 | 3,5 | PPS2154150*R |
| 1500 | 600 | 2200 | 1,5 | 31,5 | 57 | 1,2 | 175 | 262,5 | 14 | 3,9 | PPS2154150*S |
| 1500 | 600 | 2200 | 2 | 38,5 | 53 | 1,2 | 235 | 470 | 14 | 3 | PPS2154200*R |
| 1500 | 600 | 2200 | 2 | 36 | 57 | 1,2 | 175 | 350 | 14 | 3,3 | PPS2154200*S |
| 1500 | 600 | 2200 | 2,2 | 39,5 | 53 | 1,2 | 235 | 517 | 14 | 2,9 | PPS2154220*R |
| 1500 | 600 | 2200 | 2,2 | 38 | 57 | 1,2 | 175 | 385 | 14 | 3,2 | PPS2154220*S |
| 2000 | 650 | 2600 | 0,022 | 10 | 27 | 0,8 | 810 | 17,8 | 2,5 | 33 | PPS2203220*G |
| 2000 | 650 | 2600 | 0,033 | 11,5 | 27 | 0,8 | 810 | 26,7 | 3 | 24,5 | PPS2202330*G |
| 2000 | 650 | 2600 | 0,047 | 13,5 | 27 | 0,8 | 810 | 38,1 | 3,5 | 18,5 | PPS2202470*G |
| 2000 | 650 | 2600 | 0,047 | 11 | 32 | 0,8 | 650 | 30,6 | 3 | 20,5 | PPS2202470*J |
| 2000 | 650 | 2600 | 0,068 | 15,5 | 27 | 0,8 | 810 | 55,1 | 4,5 | 13,8 | PPS2202680*G |
| 2000 | 650 | 2600 | 0,068 | 13 | 32 | 0,8 | 650 | 44,2 | 4 | 15 | PPS2202680*J |
| 2000 | 650 | 2600 | 0,1 | 15,5 | 32 | 0,8 | 650 | 65 | 5,5 | 11,6 | PPS2203100*J |
| 2000 | 650 | 2600 | 0,15 | 19,5 | 32 | 1 | 650 | 97,5 | 7,5 | 8,2 | PPS2203150*J |
| 2000 | 650 | 2600 | 0,15 | 15,5 | 44 | 1 | 410 | 61,5 | 6,5 | 10 | PPS2203150*N |
| 2000 | 650 | 2600 | 0,22 | 23,5 | 32 | 1 | 650 | 143 | 9,5 | 5,7 | PPS2203220*J |
| 2000 | 650 | 2600 | 0,22 | 19 | 44 | 1 | 410 | 90,2 | 9 | 7,2 | PPS2203220*N |
| 2000 | 650 | 2600 | 0,33 | 23 | 44 | 1,2 | 410 | 135 | 11,5 | 5,5 | PPS2203330*N |
| 2000 | 650 | 2600 | 0,47 | 27 | 44 | 1,2 | 410 | 193 | 13,5 | 4,5 | PPS2203470*N |
| 2000 | 650 | 2600 | 0,68 | 32,5 | 44 | 1,2 | 410 | 279 | 114 | 3,7 | PPS2203680*N |
| 2000 | 650 | 2600 | 0,68 | 28 | 53 | 1,2 | 300 | 204 | 14 | 4,7 | PPS2203680*R |
| 2000 | 650 | 2600 | 0,68 | 26,5 | 57 | 1,2 | 225 | 153 | 14 | 5,4 | PPS2203680*S |
| 2000 | 650 | 2600 | 1 | 33,5 | 53 | 1,2 | 300 | 300 | 14 | 3,8 | PPS2204100*R |
| 2000 | 650 | 2600 | 1 | 31,5 | 57 | 1,2 | 225 | 225 | 14 | 4,3 | PPS2204100*S |
| 2000 | 650 | 2600 | 1,3 | 38,5 | 53 | 1,2 | 300 | 390 | 14 | 3,3 | PPS2204130*R |
| 2000 | 650 | 2600 | 1,3 | 36 | 57 | 1,2 | 225 | 292,5 | 14 | 3,7 | PPS2204130*S |
| 2000 | 650 | 2600 | 1,5 | 39,5 | 57 | 1,2 | 225 | 337,5 | 14 | 3,5 | PPS2204150*S |
| 2500 | 700 | 3300 | 0,01 | 9,5 | 27 | 0,8 | 1050 | 10,5 | 1,5 | 58 | PPS2252100*G |
| 2500 | 700 | 3300 | 0,015 | 11 | 27 | 0,8 | 1050 | 15,7 | 2 | 42 | PPS2252150*G |
| 2500 | 700 | 3300 | 0,022 | 13 | 27 | 0,8 | 1050 | 23,1 | 2,5 | 30,5 | PPS2252220*G |
| 2500 | 700 | 3300 | 0,033 | 15,5 | 27 | 0,8 | 1050 | 34,6 | 3,5 | 22,5 | PPS2252330*G |
| 2500 | 700 | 3300 | 0,033 | 11,5 | 32 | 0,8 | 870 | 28,7 | 3 | 26 | PPS2252330*J |
| 2500 | 700 | 3300 | 0,047 | 13,5 | 32 | 0,8 | 870 | 40,9 | 4 | 19,1 | PPS2252470*J |
| 2500 | 700 | 3300 | 0,068 | 16 | 32 | 0,8 | 870 | 59,2 | 5 | 14,5 | PPS2252680*J |
| 2500 | 700 | 3300 | 0,1 | 20 | 32 | 1 | 870 | 87 | 7 | 11 | PPS2253100*J |
| 2500 | 700 | 3300 | 0,1 | 15,5 | 44 | 1 | 550 | 55 | 6 | 14,2 | PPS2253100*N |
| 2500 | 700 | 3300 | 0,15 | 24 | 32 | 1 | 870 | 131 | 8,5 | 7,6 | PPS2253150*J |
| 2500 | 700 | 3300 | 0,15 | 19,5 | 44 | 1 | 550 | 82,5 | 7,5 | 9,3 | PPS2253150*N |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Maximum values at 100kHz, +70°C, C tol. ≤ ±10% (for wider C tolerances, ESR variation must be taken in consideration)- ⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related different power dissipation must be taken in consideration)- ⁽⁴⁾Not suitable for across the line application.



PPS

Metallized polypropylene film capacitor

MKP - Switching / Snubber - High current



| Ur Vdc | Urms Vac ⁽⁴⁾ | Upk Vdc | Cap. μF | Dimension in mm | | | du/dt V/μs | Ipeak A | Irms ⁽²⁾ A | ESR ⁽³⁾ mΩ | ICEL Code ⁽¹⁾ |
|-----------|----------------------------|------------|------------|-----------------|----|-----|---------------|------------|--------------------------|--------------------------|--------------------------|
| | | | | D | L | d | | | | | |
| 2500 | 700 | 3300 | 0,22 | 23 | 44 | 1,2 | 550 | 121 | 10 | 6,8 | PPS2253220*N |
| 2500 | 700 | 3300 | 0,33 | 28 | 44 | 1,2 | 550 | 182 | 13 | 5,2 | PPS2253330*N |
| 2500 | 700 | 3300 | 0,33 | 24 | 53 | 1,2 | 375 | 124 | 12 | 6,3 | PPS2253330*R |
| 2500 | 700 | 3300 | 0,33 | 23 | 57 | 1,2 | 280 | 92,4 | 11 | 7,3 | PPS2253330*S |
| 2500 | 700 | 3300 | 0,47 | 33,5 | 44 | 1,2 | 550 | 259 | 14 | 4,2 | PPS2253470*N |
| 2500 | 700 | 3300 | 0,47 | 28,5 | 53 | 1,2 | 375 | 176 | 14 | 5,1 | PPS2253470*R |
| 2500 | 700 | 3300 | 0,47 | 27,5 | 57 | 1,2 | 280 | 131,6 | 13,5 | 5,8 | PPS2253470*S |
| 2500 | 700 | 3300 | 0,68 | 34,5 | 53 | 1,2 | 375 | 255 | 14 | 4,2 | PPS2253680*R |
| 2500 | 700 | 3300 | 0,68 | 33 | 57 | 1,2 | 280 | 190,4 | 14 | 4,8 | PPS2253680*S |
| 2500 | 700 | 3300 | 0,82 | 38 | 53 | 1,2 | 375 | 308 | 14 | 3,7 | PPS2253820*R |
| 2500 | 700 | 3300 | 0,82 | 36,5 | 57 | 1,2 | 280 | 229,6 | 14 | 4,2 | PPS2253820*S |
| 2500 | 700 | 3300 | 1 | 40 | 57 | 1,2 | 280 | 280 | 14 | 3,9 | PPS2254100*S |
| 3000 | 750 | 4000 | 0,0068 | 10 | 27 | 0,8 | 1500 | 10,2 | 1 | 75 | PPS2301680*G |
| 3000 | 750 | 4000 | 0,01 | 12 | 27 | 0,8 | 1500 | 15 | 1,5 | 56 | PPS2302100*G |
| 3000 | 750 | 4000 | 0,01 | 9,5 | 32 | 0,8 | 1200 | 12 | 1,5 | 68 | PPS2302100*J |
| 3000 | 750 | 4000 | 0,015 | 14 | 27 | 0,8 | 1500 | 22,5 | 2,5 | 39 | PPS2302150*G |
| 3000 | 750 | 4000 | 0,015 | 12 | 32 | 0,8 | 1200 | 18 | 2 | 43 | PPS2302150*J |
| 3000 | 750 | 4000 | 0,022 | 13,5 | 32 | 0,8 | 1200 | 26,4 | 3 | 31,5 | PPS2302220*J |
| 3000 | 750 | 4000 | 0,033 | 16 | 32 | 0,8 | 1200 | 39,6 | 4 | 22 | PPS2302330*J |
| 3000 | 750 | 4000 | 0,047 | 19 | 32 | 1 | 1200 | 56,4 | 5 | 16 | PPS2302470*J |
| 3000 | 750 | 4000 | 0,068 | 23 | 32 | 1 | 1200 | 81,6 | 7 | 12 | PPS2302680*J |
| 3000 | 750 | 4000 | 0,068 | 18 | 44 | 1 | 750 | 51 | 6 | 15 | PPS2302680*N |
| 3000 | 750 | 4000 | 0,1 | 21,5 | 44 | 1 | 750 | 75 | 7,5 | 11 | PPS2303100*N |
| 3000 | 750 | 4000 | 0,15 | 26,5 | 44 | 1,2 | 750 | 113 | 10 | 8 | PPS2303150*N |
| 3000 | 750 | 4000 | 0,22 | 32 | 44 | 1,2 | 750 | 165 | 13 | 6 | PPS2303220*N |
| 3000 | 750 | 4000 | 0,22 | 27 | 53 | 1,2 | 500 | 110 | 12 | 6,8 | PPS2303220*R |
| 3000 | 750 | 4000 | 0,22 | 25,5 | 57 | 1,2 | 370 | 81,4 | 11 | 7,7 | PPS2303220*S |
| 3000 | 750 | 4000 | 0,33 | 32 | 53 | 1,2 | 500 | 165 | 14 | 5,5 | PPS2303330*R |
| 3000 | 750 | 4000 | 0,33 | 30,5 | 57 | 1,2 | 370 | 122,1 | 14 | 6,2 | PPS2303330*S |
| 3000 | 750 | 4000 | 0,47 | 39 | 53 | 1,2 | 500 | 235 | 14 | 4,9 | PPS2303470*R |
| 3000 | 750 | 4000 | 0,47 | 37 | 57 | 1,2 | 370 | 173,9 | 14 | 5,5 | PPS2303470*S |
| 3000 | 750 | 4000 | 0,56 | 40 | 57 | 1,2 | 370 | 207,2 | 14 | 5,1 | PPS2303560*S |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20%

⁽²⁾ Maximum values at 100kHz, +70°C, C tol. ≤ ±10% (for wider C tolerances, ESR variation must be taken in consideration)- ⁽³⁾ Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related different power dissipation must be taken in consideration)- ⁽⁴⁾Not suitable for across the line application.