

MAB - (Updated approval references)

Metallized polypropylene film capacitor

MKP - AC - Motor run - Switching



Main applications

Motor run capacitor, general purpose AC applications, medium-low power switching capacitor for industrial and motor speed controls, electronic ballasts and SMPS

Dielectric

Polypropylene

Electrodes

Vacuum deposited metal layers

Coating

Solvent resistant plastic case (UL 94 V-1 minimum) with resin sealing (UL 94 V-0). Flame retardant execution.

In conformity with:

- glow wire tests in accordance with IEC 60335-1
- ball pressure test in accordance with IEC 60695-10-2

Please refer to the article tables for the official approval tests references

Construction

Extended metallized film (refer to general technical information)

Terminals

Tinned copper wire (lead-free), insulated tinned copper (lead-free) or stranded insulated tinned copper (lead-free) wire leads. Insulated leads available for box size $\geq 10 \times 18,5 \times 26,5$ mm. Cable leads execution not suitable for high I_{rms} switching use

Terminals code

S for 5±1mm length tinned copper leads, L for 30±5mm length tinned copper leads, C for tinned copper insulated wire, M for stranded insulated tinned copper leads

Reference standard

IEC 60068, EN 60252-1 (2011), SEV1029, CSA 22.2 n.190 and UL810 (construction only), IEC 60335-1, RoHS compliant

Approvals

Please refer to the article tables. Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

Climatic category

40/100/56 (IEC 60068/1), GPD (DIN40040)
25/085/56 (IEC 60068/1), HPF (DIN40040) for approvals reference

Operating temperature range (case)

-40...+100°C
-25...+85°C for approvals reference

Rated capacitance (Cr)

0,1µF to 33µF. Refer to article table

Capacitance tolerance (at 1kHz)

±10% (code=K), ±5% (code=J), ±2.5% (code= H) and ±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)

160 ÷ 600V 50÷60Hz (370 ÷ 1200Vdc). Please refer to the article table

Category voltage (Uc)

Uc= 0,8 x Ur at +100°C (for +85°C < T \leq +100°C, Ur must be decreased 1,5% for every°C exceeding +85°C); **Uc=Ur at +85°C for approvals reference**

Self inductance

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

Maximum pulse rise time

Refer to article table. The pulse characteristic Ko depends on the voltage waveform. In any case the value given in the article table must not be overcome

Dissipation factor (DF), max.

Tgδ x10⁻⁴, measured at 25±5°C, 1kHz

| Cr $\leq 2,2\mu\text{F}$ | 2,2µF < Cr $\leq 10\mu\text{F}$ | 10µF < Cr $\leq 20\mu\text{F}$ | Cr > 20µF |
|--------------------------|---------------------------------|--------------------------------|-----------|
| 6 | 10 | 12 | 15 |

Insulation resistance (IR)

Measured between terminals, at 25±°C, after 1 minute of electrification at 100Vdc:

IR ≥ 10000 s for Cr < 1 µF (typical value 30000s)
 IR ≥ 3000 s for Cr $\geq 1\mu\text{F}$ (typical value 10000s)

Test voltage between terminals (Ut)

1,6xUr(AC) applied for 1 minute at 25±5°C
2,0xUr(AC) applied for 1 minute at 25±5°C for EN60252-1 2011 approved ratings

Test voltage between terminals and case (Utc)

3kV 50÷60Hz applied for 60s at 25±5°C

Protection class

IP00

Life expectancy class

In accordance with EN60252-1:
 Class A: 30000 h; Class B: 10000 h; Class C: 3000 h; Class D: 1000 h
 Please refer to the article table for each series ratings and life expectancy class

Damp heat test (steady state)

Test conditions:
 Temperature= +40±2°C
 Relative humidity=93±2%
 Test duration= 56 days

Performance:
 Capacitance change $\leq \pm 2\%$
 DF change ≤ 0.0010 at 1kHz for Cr < 15µF
 DF change ≤ 0.0015 at 1kHz for Cr $\geq 15\mu\text{F}$
 IR $\geq 50\%$ of initial limit value

Endurance test; reference: EN60252-1 (2011)

Test conditions:
 Applied voltage and temperature: 1,25 x Ur AC at +85°C

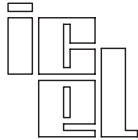
Test duration:
 200h for class D: 1000 hours expected life, continuous operation
 600h for class C: 3000 hours expected life, continuous operation
 2000h for class B: 10000 hours expected life, continuous operation
 6000h for class A: 30000 hours expected life, continuous operation

Performance:
 Capacitance change $\leq \pm 3\%$; 1 piece > $\pm 3\%$ on 21 tested for EN60252-1 (2011) approved ratings

Resistance to soldering heat test

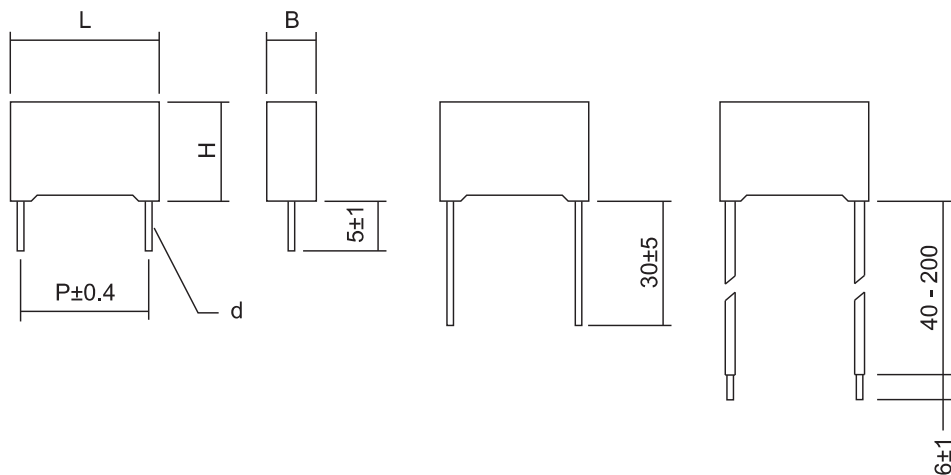
Test conditions:
 Solder bath temperature= +260±5°C
 Dipping time (with heat screen)= 10±1s

Performance:
 Capacitance change $\leq \pm 1\%$
 DF change ≤ 0.0010 at 1kHz
 IR $\geq 50\%$ of initial limit value



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Note: standard cables length up to 80mm; longer leads available upon request

MABA05 article table

500V 50±60Hz, +85°C, continuous service, class B (10000 h)

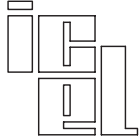
600V 50±60Hz, +85°C, continuous service, class C (3000 h)

1200Vdc; Upk= 1500Vdc

Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

| Cap. µF | Dimension in mm | | | | | du/dt V/µs | Ko V ² /µs | ICEL Code ⁽¹⁾ |
|------------|-----------------|------|------|------|-----|---------------|--------------------------|--------------------------|
| | B | H | L | P | d | | | |
| 0,1 | 7 | 16 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053100*G# |
| 0,12 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053120*G# |
| 0,15 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053150*G# |
| 0,18 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053180*G# |
| 0,22 | 11 | 20 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053220*G# |
| 0,22 | 11 | 20 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053220*H# |
| 0,27 | 13 | 22 | 26,5 | 22,5 | 0,8 | 175 | 296E03 | MABA053270*G# |
| 0,27 | 11 | 20 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053270*H# |
| 0,33 | 13 | 22 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053330*H# |
| 0,39 | 13 | 22 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053390*H# |
| 0,47 | 14 | 28 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053470*H# |
| 0,56 | 14 | 28 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053560*H# |
| 0,68 | 14 | 28 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053680*H# |
| 0,75 | 18 | 33 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053750*H# |
| 0,82 | 18 | 33 | 32 | 27,5 | 0,8 | 145 | 245E03 | MABA053820*H# |
| 1 | 17 | 28 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054100*J# |
| 1,2 | 22 | 30 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054120*J# |
| 1,5 | 22 | 30 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054150*J# |
| 1,8 | 28 | 37 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054180*J# |
| 2 | 28 | 37 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054200*J# |
| 2,2 | 28 | 37 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054220*J# |
| 2,5 | 28 | 37 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054250*J# |
| 2,7 | 30 | 45 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054270*J# |
| 3 | 30 | 45 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054300*J# |
| 3,3 | 30 | 45 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054330*J# |
| 3,5 | 30 | 45 | 42,5 | 37,5 | 1 | 90 | 152E03 | MABA054350*J# |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: H=±2.5%, J=±5%, K=±10%, M=±20% and the # symbol with the needed leads execution (S, L, M or C)



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MABA01 article table

400V 50±60Hz, +85°C, continuous service. Approved IMQ EN60252-1 (2011) class A (30000 h), SEV1029

432V 50±60Hz, +85°C, continuous service. Approved IMQ EN60252-1 (2011) class B (10000 h), SEV1029

500V 50±60Hz, +85°C, continuous service, class C (3000 h);

800Vdc; Upk= 1050Vdc

Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

Glow wire tests conformity to IEC 60335-1, approved IMQ

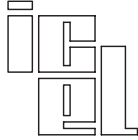


EN60252-1

1029

| Cap. µF | B | H | Dimension in mm | | | du/dt V/µs | Ko V ² /µs | ICEL Code ⁽¹⁾ |
|---------------------|-----|------|-----------------|------|-----|---------------|--------------------------|--------------------------|
| | | | L | P | D | | | |
| 0,1 | 7 | 16 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013100*G# |
| 0,12 | 7 | 16 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013120*G# |
| 0,15 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013150*G# |
| 0,18 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013180*G# |
| 0,22 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013220*G# |
| 0,27 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013270*G# |
| 0,33 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013330*G# |
| 0,33 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013330*H# |
| 0,39 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013390*G# |
| 0,39 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013390*H# |
| 0,47 | 11 | 20 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013470*G# |
| 0,47 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013470*H# |
| 0,56 | 13 | 22 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013560*G# |
| 0,56 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013560*H# |
| 0,62 | 13 | 22 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013620*G# |
| 0,62 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013620*H# |
| 0,62 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA013620*I# |
| 0,68 | 13 | 22 | 26,5 | 22,5 | 0,8 | 120 | 146E03 | MABA013680*G# |
| 0,68 | 11 | 20 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013680*H# |
| 0,68 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA013680*I# |
| 0,75 | 13 | 22 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013750*H# |
| 0,75 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA013750*I# |
| 0,82 | 13 | 22 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA013820*H# |
| 0,82 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA013820*I# |
| 1 | 15 | 24,5 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA014100*H# |
| 1 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA014100*I# |
| 1,2 | 15 | 24,5 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA014120*H# |
| 1,2 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA014120*I# |
| 1,5 | 18 | 33 | 32 | 27,5 | 0,8 | 100 | 122E03 | MABA014150*H# |
| 1,5 | 15 | 26 | 39,5 | 35 | 0,8 | 70 | 85300 | MABA014150*I# |
| 1,8 | 18 | 33 | 32 | 27,5 | 0,8 | 70 | 85300 | MABA014180*H# |
| 1,8 | 17 | 28 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014180*J# |
| 2 | 18 | 33 | 32 | 27,5 | 0,8 | 65 | 85300 | MABA014200*H# |
| 2 | 17 | 28 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014200*J# |
| 2,2 | 18 | 33 | 32 | 27,5 | 0,8 | 65 | 85300 | MABA014220*H# |
| 2,2 | 17 | 28 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014220*J# |
| 2,5 | 17 | 28 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014250*J# |
| 2,7 | 22 | 30 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014270*J# |
| 3 | 22 | 30 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014300*J# |
| 3,3 | 22 | 30 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014330*J# |
| 3,5 | 22 | 33,5 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014350*J# |
| 4 | 22 | 33,5 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014400*J# |
| 4,5 | 22 | 33,5 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014450*J# |
| 4,7 | 28 | 37 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014470*J# |
| 5 | 28 | 37 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014500*J# |
| 5,5 | 28 | 37 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014550*J# |
| 6 | 28 | 37 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014600*J# |
| 6,3 | 28 | 37 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014630*J# |
| 7 | 30 | 45 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014700*J# |
| 8 | 30 | 45 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014800*J# |
| 8,5 | 30 | 45 | 42,5 | 37,5 | 1 | 65 | 79000 | MABA014850*J# |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: H=±2.5%, J=±5%, K=±10%, M=±20% and the # symbol with the needed leads execution (S, L, M or C)- ⁽²⁾ also available with size 14x24,5x38,3mm



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Metallized polypropylene film capacitor

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MABA02 article table

320V 50+60Hz, +85°C, continuous service. Approved IMQ EN60252-1 (2011) class A (30000 h), SEV1029

400V 50+60Hz, +85°C, continuous service. Approved IMQ EN60252-1 (2011) class B (10000 h), SEV1029

430V 50+60Hz, +85°C, continuous service. Approved IMQ EN60252-1 (2011) class D (1000 h), SEV1029

600Vdc; Upk=750Vdc

Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

Glow wire tests conformity to IEC 60335-1, approved IMQ



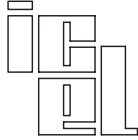
EN60252-1



1029

| Cap. µF | Dimension in mm | | | | | du/dt V/µs | Ko V ² /µs | ICEL Code ⁽¹⁾ |
|--------------------|-----------------|------|------|------|-----|---------------|--------------------------|--------------------------|
| | B | H | L | P | d | | | |
| 0,33 | 7 | 16 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023330*G# |
| 0,39 | 7 | 16 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023390*G# |
| 0,47 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023470*G# |
| 0,50 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023500*G# |
| 0,56 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023560*G# |
| 0,62 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023620*G# |
| 0,68 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023680*G# |
| 0,68 | 11 | 20 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA023680*H# |
| 0,75 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023750*G# |
| 0,75 | 11 | 20 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA023750*H# |
| 0,82 | 11 | 20 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA023820*G# |
| 0,82 | 11 | 20 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA023820*H# |
| 1 | 13 | 22 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA024100*G# |
| 1 | 11 | 20 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024100*H# |
| 1,2 | 13 | 22 | 26,5 | 22,5 | 0,8 | 90 | 81200 | MABA024120*G# |
| 1,2 | 11 | 20 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024120*H# |
| 1,5 | 13 | 22 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024150*H# |
| 1,5 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024150*I# |
| 1,8 | 15 | 24,5 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024180*H#B |
| 1,8 | 14 | 28 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024180*H# |
| 2 | 15 | 24,5 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024180*H#B |
| 2 | 14 | 28 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024200*H# |
| 2 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024200*I# |
| 2,2 | 15 | 24,5 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024220*H#B |
| 2,2 | 14 | 28 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024220*H# |
| 2,2 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024220*I# |
| 2,5 | 14 | 28 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024250*H# |
| 2,5 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024250*I# |
| 2,7 | 14 | 28 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024270*H# |
| 2,7 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024270*I# |
| 3 | 18 | 33 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024300*H# |
| 3 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024300*I# |
| 3 | 17 | 28 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024300*J# |
| 3,3 | 18 | 33 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024330*H# |
| 3,3 | 15 | 26 | 39,5 | 35 | 0,8 | 50 | 45100 | MABA024330*I# |
| 3,3 | 17 | 28 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024330*J# |
| 3,5 | 18 | 33 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024350*H# |
| 3,5 | 17 | 28 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024350*J# |
| 4 | 18 | 33 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024400*H# |
| 4 | 17 | 28 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024400*J# |
| 4,5 | 22 | 37 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024450*H# |
| 4,5 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024450*J# |
| 4,7 | 22 | 37 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024470*H# |
| 4,7 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024470*J# |
| 5 | 22 | 37 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024500*H# |
| 5 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024500*J# |
| 5,5 | 22 | 37 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024550*H# |
| 5,5 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024550*J# |
| 6 | 22 | 37 | 32 | 27,5 | 0,8 | 70 | 63200 | MABA024600*H# |
| 6 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024600*J# |
| 6,3 | 22 | 30 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024630*J# |
| 6,8 | 22 | 33,5 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024680*J# |
| 7 | 22 | 33,5 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024700*J# |
| 8 | 22 | 33,5 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024800*J# |
| 8,5 | 28 | 37 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA024850*J# |
| 10 | 28 | 37 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025100*J# |
| 11 | 30 | 45 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025110*J# |
| 12 | 30 | 45 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025120*J# |
| 13 | 30 | 45 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025130*J# |
| 14 | 30 | 45 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025140*J# |
| 15 | 30 | 45 | 42,5 | 37,5 | 1 | 50 | 45100 | MABA025150*J# |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: H=±2.5%, J=±5%, K=±10%, M=±20% and the # symbol with the needed leads execution (S, L, M or C) - ⁽²⁾ also available with size 14x24,5x38,3mm



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MABA03 article table

250V 50±60Hz, +85°C, continuous service, class A (30000 h)

275V 50±60Hz, +85°C, continuous service, class B (10000 h)

320V 50±60Hz, +85°C, continuous service, class C (3000 h)

500Vdc; Upk= 625Vdc

Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

| Cap. µF | Dimension in mm | | | | | du/dt V/µs | Ko V ² /µs | ICEL Code ⁽¹⁾ |
|---------------------|-----------------|------|------|------|-----|---------------|--------------------------|--------------------------|
| | B | H | L | P | d | | | |
| 0,68 | 7 | 16 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA033680*G# |
| 0,75 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA033750*G# |
| 0,82 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA033820*G# |
| 1 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA034100*G# |
| 1,2 | 11 | 20 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA034120*G# |
| 1,2 | 9 | 17 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034120*H# |
| 1,5 | 13 | 22 | 26,5 | 22,5 | 0,8 | 60 | 42300 | MABA034150*G# |
| 1,5 | 11 | 20 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034150*H# |
| 1,8 | 13 | 22 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034180*H# |
| 2 | 13 | 22 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034200*H# |
| 2,2 | 13 | 22 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034220*H# |
| 2,5 | 13 | 22 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034250*H# |
| 2,7 | 13 | 22 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034270*H# |
| 3 | 15 | 24,5 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034300*H# |
| 3,15 | 15 | 24,5 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034315*H# |
| 3,15 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 40 | 28200 | MABA034315*I# |
| 3,3 | 15 | 24,5 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034330*H# |
| 3,3 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 40 | 28200 | MABA034330*I# |
| 3,5 | 15 | 24,5 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034350*H# |
| 3,5 ⁽²⁾ | 15 | 26 | 39,5 | 35 | 0,8 | 40 | 28200 | MABA034350*I# |
| 4 | 18 | 33 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034400*H# |
| 4 | 15 | 26 | 39,5 | 35 | 0,8 | 40 | 28200 | MABA034400*I# |
| 4,5 | 18 | 33 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034450*H# |
| 4,5 | 17 | 28 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034450*J# |
| 4,7 | 18 | 33 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034470*H# |
| 4,7 | 17 | 28 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034470*J# |
| 5 | 18 | 33 | 32 | 27,5 | 0,8 | 50 | 35300 | MABA034500*H# |
| 5 | 17 | 28 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034500*J# |
| 6 | 17 | 28 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034600*J# |
| 6,5 | 17 | 28 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034650*J# |
| 8 | 22 | 30 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA034800*J# |
| 10 | 22 | 30 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035100*J# |
| 12 | 28 | 37 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035120*J# |
| 15 | 28 | 37 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035150*J# |
| 18 | 30 | 45 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035180*J# |
| 20 | 30 | 45 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035200*J# |
| 22 | 30 | 45 | 42,5 | 37,5 | 1 | 35 | 24700 | MABA035220*J# |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: H=±2.5%, J=±5%, K=±10%, M=±20% and the # symbol with the needed leads execution (S, L, M or C) - ⁽²⁾ also available with size 14x24,5x38,3mm



MAB - (Updated approval references)

**Metallized polypropylene film capacitor
MKP - AC - Motor run - Switching**



MABA04 article table

160V 50±60Hz, +85°C, continuous service, class A (30000 h)

200V 50±60Hz, +85°C, continuous service, class C (3000 h)

370Vdc; Upk= 470Vdc

Construction only UL810 (file E192977) and CSA22.2 N.190 approved execution available upon request

| Cap. µF | Dimension in mm | | | | | du/dt V/µs | Ko V ² /µs | ICEL Code ⁽¹⁾ |
|------------|-----------------|------|------|------|-----|---------------|--------------------------|--------------------------|
| | B | H | L | P | d | | | |
| 1 | 7 | 16 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044100*G# |
| 1,2 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044120*G# |
| 1,5 | 8,5 | 17 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044150*G# |
| 1,8 | 10 | 18,5 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044150*G# |
| 1,8 | 9 | 17 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044180*H# |
| 2 | 11 | 20 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044200*G# |
| 2 | 9 | 17 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044200*H# |
| 2,2 | 11 | 20 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044220*G# |
| 2,2 | 11 | 20 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044220*H# |
| 2,5 | 13 | 22 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044250*G# |
| 2,5 | 11 | 20 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044250*H# |
| 2,7 | 13 | 22 | 26,5 | 22,5 | 0,8 | 50 | 22500 | MABA044270*G# |
| 2,7 | 11 | 20 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044270*H# |
| 3 | 13 | 22 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044300*H# |
| 3,3 | 13 | 22 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044330*H# |
| 3,5 | 13 | 22 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044350*H# |
| 4 | 13 | 22 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044400*H# |
| 4,5 | 15 | 24,5 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044450*H# |
| 4,7 | 14 | 28 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044470*H# |
| 5 | 14 | 28 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044500*H# |
| 6 | 18 | 33 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044600*H# |
| 6(2) | 15 | 26 | 39,5 | 35 | 0,8 | 30 | 13500 | MABA044600*H# |
| 6,8 | 18 | 33 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044680*H# |
| 6,8 | 15 | 26 | 39,5 | 35 | 0,8 | 30 | 13500 | MABA044680*H# |
| 6,8 | 17 | 28 | 42,5 | 37,5 | 0,8 | 25 | 11300 | MABA044680*J# |
| 7 | 18 | 33 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044700*H# |
| 7 | 15 | 26 | 39,5 | 35 | 0,8 | 30 | 13500 | MABA044700*H# |
| 7 | 17 | 28 | 42,5 | 37,5 | 0,8 | 25 | 11300 | MABA044700*J# |
| 8 | 18 | 33 | 32 | 27,5 | 0,8 | 40 | 18000 | MABA044800*H# |
| 8 | 17 | 28 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA044800*J# |
| 10 | 17 | 28 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045100*J# |
| 12 | 22 | 30 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045120*J# |
| 15 | 22 | 30 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045150*J# |
| 18 | 28 | 37 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045180*J# |
| 20 | 28 | 37 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045200*J# |
| 22 | 28 | 37 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045220*J# |
| 25 | 28 | 37 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045250*J# |
| 27 | 30 | 45 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045270*J# |
| 30 | 30 | 45 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045300*J# |
| 33 | 30 | 45 | 42,5 | 37,5 | 1 | 25 | 11300 | MABA045330*J# |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: H=±2.5%, J=±5%, K=±10%, M=±20%
and the # symbol with the needed leads execution (S, L, M or C) - ⁽²⁾ also available with size 14x24,5x38,3mm

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