

PMB / RMB

Metallized polypropylene film capacitor

MKP - Snubber/pulse - High current - (RMB: small size)



Main applications

Snubber, energy conversion and control in power semiconductor circuits, IGBT modules protection and SMPS protection circuits, high voltage, high current and high pulse applications

Dielectric

Polypropylene

Electrodes

Vacuum deposited metal layers

Coating

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

Construction

Extended double side metallized carrier film with internal series connection and metallized film (refer to general technical information)

Terminals

Tinned copper lugs (lead-free) for screw fixing (please refer to article table)

Degree of protection

IP00

Installation

Whatever position assuring correct heat dissipation. Arrangement of many components with box walls in contact not admitted; suggested minimum distance between side by side elements $\geq 1/8$ of the box thickness (B size). Box with lugs terminals must be free to correctly dissipate from all the body faces

Reference standard

IEC 61071, IEC 60068, RoHS compliant

Climatic category

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

Operating temperature range (case)

PMB: -40...+85°C (+100°C observing voltage and current de-rating)
RMB: -40...+85°C

Max. permissible ambient temperature

PMB: +70°C, operation at rated power, current, voltage and natural cooling (+85°C observing voltage and current de-rating)

RMB: +70°C operation at rated power, current, voltage and natural cooling

Rated capacitance (Cr)

0,047F to 6,3μF. Refer to article table

Capacitance tolerance (at 1kHz)

$\pm 10\%$ (code=K), $\pm 5\%$ (code=J). 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 (+85°C)

Temperature de-rated voltage

PMB: for operating temperature (case) $> +85^\circ\text{C}$
Ur must be decreased 1,5% for every °C exceeding +85°C,
Urms must be decreased 2,5% for every °C exceeding +85°C

RMB: not applicable

Non recurrent surge voltage (Upk)

PMB (RMB): 1100, 1300 (1200), 1550 (1300), 1750 (1600), 2200 (2000), 2600 (2400), 3300 (3000), 4000 (3500) Vdc, +85°C

Self inductance

$\leq 1\text{nH/mm}$ of fixing pitch

Maximum pulse rise time

Refer to article table

Maximum peak current (Ipeak)

Refer to article table. Max. non repetitive Ipk = 1,5 x Ipeak

Dissipation factor (DF), max.

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

| Cr $\leq 1\mu\text{F}$ | Cr $> 1\mu\text{F}$ |
|------------------------|---------------------|
| 5 | 6 |

Insulation resistance (IR)

$\geq 3000\text{s}$ but need not exceed $30\text{G}\Omega$ (typical value), when measured between terminals, at $25\pm 5^\circ\text{C}$, after 1 minute of electrification at 100Vdc

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

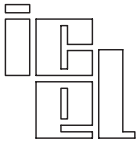
Life expectancy

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

Failure quota

300/10⁹ component hours

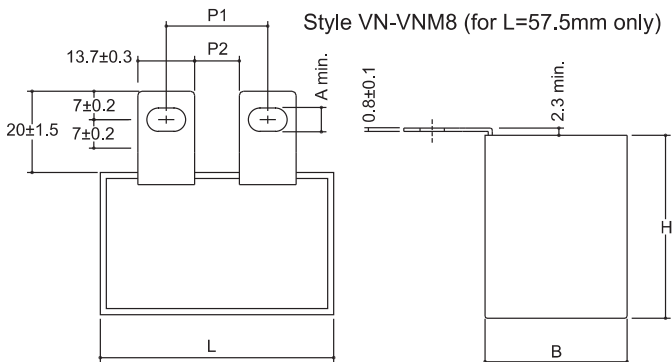
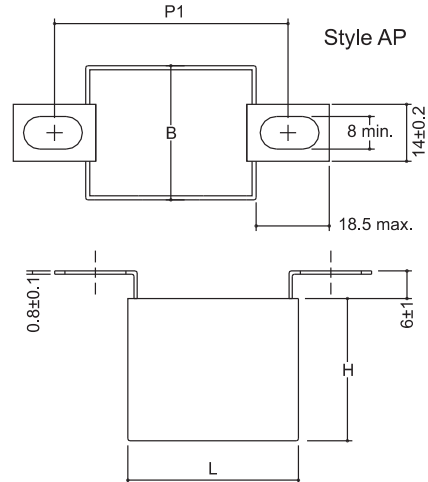
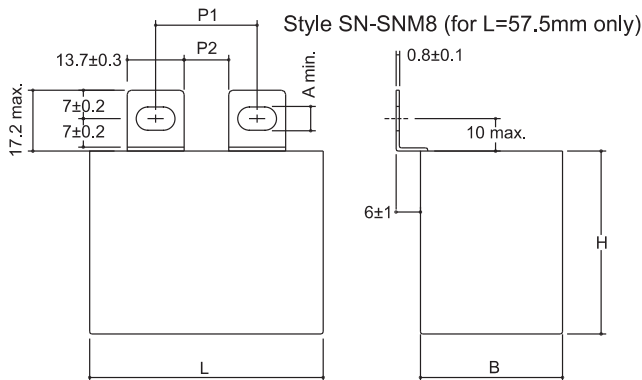
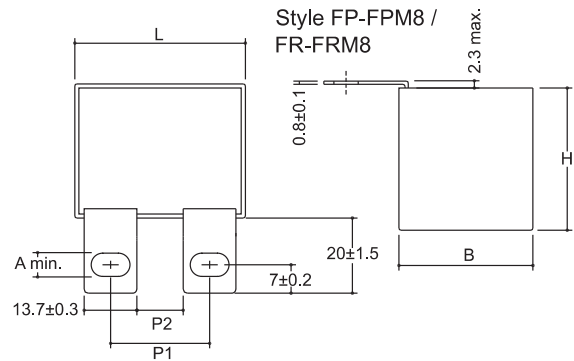
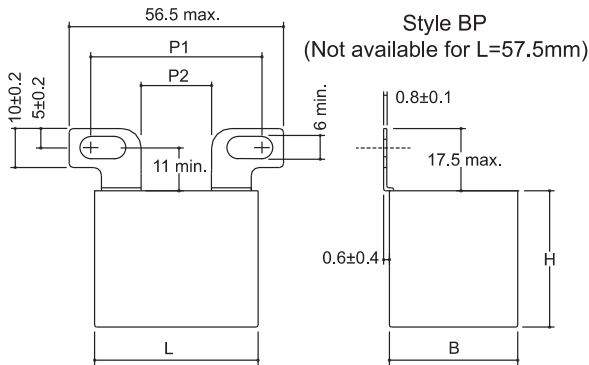
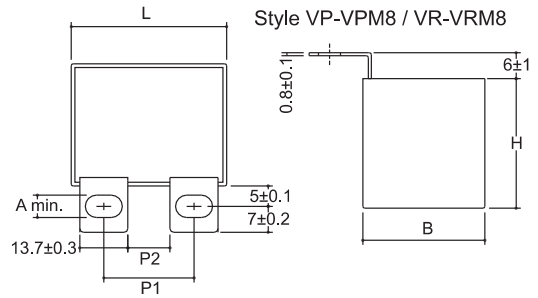
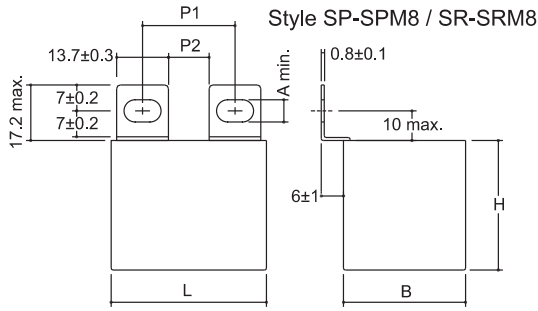
Warning: this specification must be completed with the data given in the "General technical information" chapter



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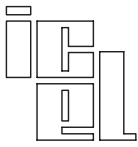
MKP - Snubber/pulse - High current - (RMB: small size)



| Fixing slot size (mm) | |
|--|------------|
| SP, VP, FP, SR, VR, FR, SN, VN | A = 6 min |
| SPM8, VPM8, FPM8, SRM8 VRM8, FRM8, SNM8, VNM8 | A = 8 min. |

| Fixing pitch and distance between lugs (mm) | | | | |
|---|------|---------------|---------|------|
| Lug style | L | P1 | | P2 |
| | | M6 | M8 | min. |
| SP-SPM8 | 42,5 | 23 ÷ 28 | 25 ÷ 26 | 11 |
| VP-VPM8 | 57,5 | 37 ÷ 42 | 39 ÷ 40 | 24 |
| FP-FPM8 | | | | |
| SR-SRM8 | 42,5 | 20 ÷ 25 | 22 ÷ 23 | 8 |
| VR-VRM8 | 57,5 | 34 ÷ 39 | 36 ÷ 37 | 21 |
| FR-FRM8 | | | | |
| SN-SNM8 | 42,5 | Not available | | |
| VN-VNM8 | 57,5 | 23 ÷ 28 | 25 ÷ 26 | 11 |
| AP | 42,5 | - | 51 ÷ 64 | - |
| | 57,5 | - | 65 ÷ 78 | - |
| BP | 42,5 | 32 ÷ 45 | - | 17 |
| | 57,5 | Not available | | |

Note: standard fixing slots are for M6 screws; execution with slots for M8 screws upon request only (AP excluded)



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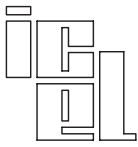
MKP - Snubber/pulse - High current - (RMB: small size)



PMB / RMB 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 ⁽²⁾ mΩ | ICEL Code ⁽¹⁾ |
|-----------|----------------------------|------------|------------|-----------------|------|------|---------------|------------|--------------------------|--------------------------|--------------------------|
| | | | | B | H | L | | | | | |
| 700 | 420 | 1100 | 1 | 17 | 28 | 42,5 | 600 | 600 | 15,5 | 3,3 | PMB1704100*## |
| 700 | 420 | 1100 | 1,2 | 24,5 | 27,5 | 42,5 | 600 | 720 | 17,5 | 3,1 | PMB1704120*## |
| 700 | 420 | 1100 | 1,5 | 22 | 33,5 | 42,5 | 600 | 900 | 19 | 2,8 | PMB1704150*## |
| 700 | 420 | 1100 | 2 | 33,5 | 35,5 | 42,5 | 600 | 1200 | 23,5 | 2,5 | PMB1704200*## |
| 700 | 420 | 1100 | 2,2 | 33,5 | 35,5 | 42,5 | 600 | 1320 | 24 | 2,4 | PMB1704220*## |
| 700 | 420 | 1100 | 2,5 | 33,5 | 35,5 | 42,5 | 600 | 1500 | 24,5 | 2,2 | PMB1704250*## |
| 700 | 420 | 1100 | 3 | 33 | 45 | 42,5 | 600 | 1800 | 27,5 | 2,1 | PMB1704300*## |
| 700 | 420 | 1100 | 3,3 | 33 | 45 | 42,5 | 600 | 1980 | 28 | 2,1 | PMB1704330*## |
| 700 | 420 | 1100 | 3,5 | 33 | 45 | 42,5 | 600 | 2100 | 28,5 | 2 | PMB1704350*## |
| 700 | 420 | 1100 | 4 | 30 | 45 | 57,5 | 360 | 1456 | 29 | 2,3 | PMB1704400*## |
| 700 | 420 | 1100 | 4,7 | 35 | 50 | 57,5 | 360 | 1692 | 32 | 2,1 | PMB1704470*## |
| 700 | 420 | 1100 | 5 | 35 | 50 | 57,5 | 360 | 1800 | 32 | 2,1 | PMB1704500*## |
| 700 | 420 | 1100 | 5,6 | 35 | 50 | 57,5 | 360 | 2016 | 33,5 | 2 | PMB1704560*## |
| 700 | 420 | 1100 | 6,3 | 35 | 50 | 57,5 | 360 | 2268 | 34,5 | 1,9 | PMB1704630*## |
| 850 | 500 | 1300 | 0,68 | 17 | 28 | 42,5 | 750 | 510 | 15 | 3,5 | PMB1853680*## |
| 850 | 500 | 1300 | 0,82 | 24,5 | 27,5 | 42,5 | 750 | 615 | 16,5 | 3,1 | PMB1853820*## |
| 850 | 500 | 1300 | 1 | 24,5 | 27,5 | 42,5 | 750 | 750 | 18,5 | 2,7 | PMB1854100*## |
| 850 | 500 | 1300 | 1,5 | 33,5 | 35,5 | 42,5 | 750 | 1125 | 24,5 | 2,2 | PMB1854150*## |
| 850 | 500 | 1300 | 1,75 | 33,5 | 35,5 | 42,5 | 750 | 1312,5 | 25,5 | 2,1 | PMB1854175*## |
| 850 | 500 | 1300 | 2 | 33 | 45 | 42,5 | 750 | 1500 | 28 | 2 | PMB1854200*## |
| 850 | 500 | 1300 | 2,2 | 33 | 45 | 42,5 | 750 | 1650 | 28,5 | 2 | PMB1854220*## |
| 850 | 500 | 1300 | 2,5 | 33 | 45 | 42,5 | 750 | 1875 | 29 | 1,9 | PMB1854250*## |
| 850 | 500 | 1300 | 3 | 30 | 45 | 57,5 | 450 | 1350 | 29,5 | 2,2 | PMB1854300*## |
| 850 | 500 | 1300 | 3,3 | 30 | 45 | 57,5 | 450 | 1485 | 30 | 2,1 | PMB1854330*## |
| 850 | 500 | 1300 | 4 | 35 | 50 | 57,5 | 450 | 1800 | 33,5 | 1,9 | PMB1854400*## |
| 850 | 500 | 1200 | 4,7 | 35 | 50 | 57,5 | 450 | 2250 | 34,5 | 1,8 | PMB1854470*## |
| 850 | 500 | 1200 | 5,6 | 35 | 50 | 57,5 | 360 | 2016 | 28,5 | 3,2 | RMB1854560*## |
| 1000 | 575 | 1550 | 0,47 | 17 | 28 | 42,5 | 870 | 408,9 | 14 | 3,9 | PMB2103470*## |
| 1000 | 575 | 1550 | 0,68 | 24,5 | 27,5 | 42,5 | 870 | 591,6 | 16,5 | 3,3 | PMB2103680*## |
| 1000 | 575 | 1550 | 0,75 | 24,5 | 27,5 | 42,5 | 870 | 652,5 | 17,5 | 3,1 | PMB2103750*## |
| 1000 | 575 | 1550 | 1,2 | 33,5 | 35,5 | 42,5 | 870 | 1044 | 23,5 | 2,5 | PMB2104120*## |
| 1000 | 575 | 1550 | 1,5 | 33,5 | 35,5 | 42,5 | 870 | 1305 | 25 | 2,2 | PMB2104150*## |
| 1000 | 575 | 1550 | 1,75 | 33 | 45 | 42,5 | 870 | 1522,5 | 27 | 2,1 | PMB2104175*## |
| 1000 | 575 | 1550 | 2 | 33 | 45 | 42,5 | 870 | 1740 | 28 | 2 | PMB2104200*## |
| 1000 | 575 | 1300 | 2,2 | 33 | 45 | 42,5 | 750 | 1650 | 24 | 3,3 | RMB2104220*## |
| 1000 | 575 | 1550 | 2,2 | 30 | 45 | 57,5 | 500 | 1100 | 27,5 | 2,5 | PMB2104220*## |
| 1000 | 575 | 1300 | 2,5 | 33 | 45 | 42,5 | 750 | 1875 | 24,5 | 3,1 | RMB2104250*## |
| 1000 | 575 | 1300 | 3 | 30 | 45 | 57,5 | 450 | 1350 | 24,5 | 3,7 | RMB2104300*## |
| 1000 | 575 | 1550 | 3 | 35 | 50 | 57,5 | 500 | 1500 | 32 | 2,1 | PMB2104300*## |
| 1000 | 575 | 1300 | 3,3 | 30 | 45 | 57,5 | 450 | 1485 | 25,5 | 3,5 | RMB2104330*## |
| 1000 | 575 | 1550 | 3,3 | 35 | 50 | 57,5 | 500 | 1650 | 32,5 | 2 | PMB2104330*## |
| 1000 | 575 | 1300 | 4 | 35 | 50 | 57,5 | 450 | 1800 | 29,5 | 3,1 | RMB2104400*## |
| 1200 | 630 | 1750 | 0,33 | 17 | 28 | 42,5 | 1000 | 330 | 12 | 5,1 | PMB2123330*##B |
| 1200 | 630 | 1750 | 0,33 | 24,5 | 27,5 | 42,5 | 1000 | 330 | 12,5 | 5,1 | PMB2123330*## |
| 1200 | 630 | 1750 | 0,39 | 17 | 28 | 42,5 | 1000 | 390 | 13 | 4,6 | PMB2123390*##B |
| 1200 | 630 | 1750 | 0,39 | 24,5 | 27,5 | 42,5 | 1000 | 390 | 14 | 4,6 | PMB2123390*## |
| 1200 | 630 | 1750 | 0,47 | 24,5 | 27,5 | 42,5 | 1000 | 470 | 15 | 4,1 | PMB2123470*## |
| 1200 | 630 | 1750 | 0,56 | 24,5 | 27,5 | 42,5 | 1000 | 560 | 16 | 3,7 | PMB2123560*## |
| 1200 | 630 | 1750 | 0,68 | 33,5 | 35,5 | 42,5 | 1000 | 680 | 20 | 3,3 | PMB2123680*## |
| 1200 | 630 | 1750 | 0,82 | 33,5 | 35,5 | 42,5 | 1000 | 820 | 21 | 3 | PMB2123820*## |
| 1200 | 630 | 1750 | 1 | 33,5 | 35,5 | 42,5 | 1000 | 1000 | 22,5 | 2,7 | PMB2124100*## |
| 1200 | 630 | 1600 | 1,2 | 33,5 | 35,5 | 42,5 | 870 | 1044 | 20 | 4,1 | RMB2124120*## |
| 1200 | 630 | 1750 | 1,2 | 33 | 45 | 42,5 | 1000 | 1200 | 25 | 2,4 | PMB2124120*## |
| 1200 | 630 | 1600 | 1,5 | 33,5 | 35,5 | 42,5 | 870 | 1305 | 21 | 3,6 | RMB2124150*## |
| 1200 | 630 | 1750 | 1,5 | 33 | 45 | 42,5 | 1000 | 1500 | 27,5 | 2,1 | PMB2124150*## |
| 1200 | 630 | 1600 | 2 | 33 | 45 | 42,5 | 870 | 1740 | 24,5 | 3,3 | RMB2124200*## |
| 1200 | 630 | 1750 | 2 | 30 | 45 | 57,5 | 575 | 1150 | 28 | 2,4 | PMB2124200*## |
| 1200 | 630 | 1600 | 2,2 | 30 | 45 | 57,5 | 500 | 1100 | 23,5 | 4,1 | RMB2124220*## |
| 1200 | 630 | 1750 | 2,2 | 35 | 50 | 57,5 | 575 | 1265 | 31 | 2,3 | PMB2124220*## |
| 1200 | 630 | 1600 | 2,5 | 30 | 45 | 57,5 | 500 | 1250 | 24,5 | 3,8 | RMB2124250*## |
| 1200 | 630 | 1750 | 2,5 | 35 | 50 | 57,5 | 575 | 1437,5 | 32,5 | 2,1 | PMB2124250*## |
| 1200 | 630 | 1600 | 3 | 35 | 50 | 57,5 | 500 | 1500 | 28 | 3,4 | RMB2124300*## |
| 1200 | 630 | 1600 | 3,3 | 35 | 50 | 57,5 | 500 | 1650 | 28,5 | 3,2 | RMB2124330*## |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - ⁽²⁾Maximum values at 100kHz, +70°C for case operating T= +85°C (PMB only: at T amb. >+70°C and T case>+85°C voltage and current de-rating must be observed), C tol. ±10% - ⁽³⁾Typical values at 100kHz - ⁽⁴⁾Not suitable for across the line application



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MKP - Snubber/pulse - High current - (RMB: small size)



| Ur Vdc | Urms Vac ⁽⁴⁾ | UpK Vdc | Cap. µF | Dimension in mm | | | du/dt V/µs | Ipeak A | Irms ⁽²⁾ A | ESR ⁽²⁾ mΩ | ICEL Code ⁽¹⁾ |
|-----------|----------------------------|------------|------------|-----------------|------|------|---------------|------------|--------------------------|--------------------------|--------------------------|
| | | | | B | H | L | | | | | |
| 1500 | 650 | 2200 | 0,22 | 17 | 28 | 42,5 | 1220 | 268,4 | 11 | 6,1 | PMB2153220*## |
| 1500 | 650 | 2200 | 0,33 | 24,5 | 27,5 | 42,5 | 1220 | 402,6 | 14 | 4,6 | PMB2153330*## |
| 1500 | 650 | 2200 | 0,39 | 24,5 | 27,5 | 42,5 | 1220 | 475,8 | 14,5 | 4,3 | PMB2153390*## |
| 1500 | 650 | 2200 | 0,47 | 33,5 | 35,5 | 42,5 | 1220 | 573,4 | 19 | 3,7 | PMB2153470*## |
| 1500 | 650 | 2200 | 0,68 | 33,5 | 35,5 | 42,5 | 1220 | 829,6 | 21 | 3,1 | PMB2153680*## |
| 1500 | 650 | 2200 | 0,75 | 33,5 | 35,5 | 42,5 | 1220 | 915 | 22 | 2,8 | PMB2153750*## |
| 1500 | 650 | 2200 | 1 | 33 | 45 | 42,5 | 1220 | 1220 | 23 | 2,5 | PMB2154100*## |
| 1500 | 650 | 2200 | 1,2 | 30 | 45 | 57,5 | 725 | 870 | 26 | 2,8 | PMB2154120*## |
| 1500 | 650 | 2200 | 1,5 | 35 | 50 | 57,5 | 725 | 1087,5 | 29,5 | 2,5 | PMB2154150*## |
| 1500 | 650 | 2200 | 1,8 | 35 | 50 | 57,5 | 725 | 1305 | 30,5 | 2,3 | PMB2154180*## |
| 1500 | 650 | 2000 | 2,2 | 35 | 50 | 57,5 | 575 | 1265 | 26,5 | 3,7 | RMB2154220*## |
| 1500 | 650 | 2000 | 2,5 | 35 | 50 | 57,5 | 575 | 1437,5 | 27,5 | 3,4 | RMB2154250*## |
| 2000 | 700 | 2600 | 0,1 | 17 | 28 | 42,5 | 1600 | 160 | 8 | 12,5 | PMB2203100*##B |
| 2000 | 700 | 2600 | 0,1 | 24,5 | 27,5 | 42,5 | 1600 | 160 | 8,5 | 12,5 | PMB2203100*## |
| 2000 | 700 | 2600 | 0,15 | 24,5 | 27,5 | 42,5 | 1600 | 240 | 11 | 7,5 | PMB2203150*## |
| 2000 | 700 | 2600 | 0,22 | 24,5 | 27,5 | 42,5 | 1600 | 352 | 13,5 | 5,1 | PMB2203220*## |
| 2000 | 700 | 2400 | 0,33 | 24,5 | 27,5 | 42,5 | 1220 | 402,6 | 12,5 | 7,4 | RMB2203330*## |
| 2000 | 700 | 2600 | 0,33 | 33,5 | 35,5 | 42,5 | 1600 | 528 | 18 | 4,1 | PMB2203330*## |
| 2000 | 700 | 2600 | 0,39 | 33,5 | 35,5 | 42,5 | 1600 | 624 | 19,5 | 3,6 | PMB2203390*## |
| 2000 | 700 | 2400 | 0,47 | 33,5 | 35,5 | 42,5 | 1220 | 573,4 | 16,5 | 6 | RMB2203470*## |
| 2000 | 700 | 2600 | 0,47 | 33 | 45 | 42,5 | 1600 | 752 | 22 | 3,3 | PMB2203470*## |
| 2000 | 700 | 2600 | 0,56 | 33 | 45 | 42,5 | 1600 | 896 | 23 | 3 | PMB2203560*## |
| 2000 | 700 | 2400 | 0,68 | 33,5 | 35,5 | 42,5 | 1220 | 829,6 | 18 | 5 | RMB2203680*## |
| 2000 | 700 | 2600 | 0,68 | 30 | 45 | 57,5 | 930 | 632,4 | 23 | 3,5 | PMB2203680*## |
| 2000 | 700 | 2400 | 0,82 | 33 | 45 | 42,5 | 1220 | 1000,4 | 20 | 4,6 | RMB2203820*## |
| 2000 | 700 | 2600 | 0,82 | 30 | 45 | 57,5 | 930 | 762,6 | 24,5 | 3,1 | PMB2203820*## |
| 2000 | 700 | 2400 | 1 | 33 | 45 | 42,5 | 1220 | 1220 | 21,5 | 4,1 | RMB2204100*## |
| 2000 | 700 | 2600 | 1 | 35 | 50 | 57,5 | 930 | 930 | 28 | 2,8 | PMB2204100*## |
| 2000 | 700 | 2400 | 1,2 | 30 | 45 | 57,5 | 725 | 870 | 22,5 | 4,5 | RMB2204120*## |
| 2000 | 700 | 2600 | 1,2 | 35 | 50 | 57,5 | 930 | 1116 | 29,5 | 2,4 | PMB2204120*## |
| 2000 | 700 | 2400 | 1,5 | 35 | 50 | 57,5 | 725 | 1087,5 | 26 | 4 | RMB2204150*## |
| 2500 | 725 | 3300 | 0,1 | 17 | 28 | 42,5 | 2050 | 205 | 8,5 | 11 | PMB2253100*##B |
| 2500 | 725 | 3300 | 0,1 | 24,5 | 27,5 | 42,5 | 2050 | 205 | 9 | 11 | PMB2253100*## |
| 2500 | 725 | 3300 | 0,15 | 24,5 | 27,5 | 42,5 | 2050 | 307,5 | 11,5 | 7,2 | PMB2253150*## |
| 2500 | 725 | 3300 | 0,22 | 33,5 | 35,5 | 42,5 | 2050 | 451 | 16 | 5,2 | PMB2253220*## |
| 2500 | 725 | 3300 | 0,33 | 33,5 | 35,5 | 42,5 | 2050 | 676,5 | 19 | 3,8 | PMB2253330*## |
| 2500 | 725 | 3300 | 0,47 | 33 | 45 | 42,5 | 2050 | 963,5 | 23 | 3 | PMB2253470*## |
| 2500 | 725 | 3300 | 0,56 | 30 | 45 | 57,5 | 1150 | 644 | 23 | 3,5 | PMB2253560*## |
| 2500 | 725 | 3300 | 0,68 | 35 | 50 | 57,5 | 1150 | 782 | 26 | 3,2 | PMB2253680*## |
| 2500 | 725 | 3300 | 0,82 | 35 | 50 | 57,5 | 1150 | 943 | 27,5 | 2,9 | PMB2253820*## |
| 2500 | 725 | 3000 | 1,0 | 35 | 50 | 57,5 | 930 | 930 | 23,5 | 4,6 | RMB2254100*## |
| 2500 | 725 | 3000 | 1,2 | 35 | 50 | 57,5 | 930 | 1116 | 25,5 | 4,1 | RMB2254120*## |
| 3000 | 750 | 4000 | 0,047 | 17 | 28 | 42,5 | 2500 | 117,5 | 7 | 16,5 | PMB2302470*##B |
| 3000 | 750 | 4000 | 0,047 | 24,5 | 27,5 | 42,5 | 2500 | 117,5 | 7,5 | 16,5 | PMB2302470*## |
| 3000 | 750 | 4000 | 0,068 | 17 | 28 | 42,5 | 2500 | 170 | 8 | 11,5 | PMB2302680*##B |
| 3000 | 750 | 4000 | 0,068 | 24,5 | 27,5 | 42,5 | 2500 | 170 | 9 | 11,5 | PMB2302680*## |
| 3000 | 750 | 4000 | 0,1 | 33,5 | 35,5 | 42,5 | 2500 | 250 | 12,5 | 8,5 | PMB2303100*## |
| 3000 | 750 | 4000 | 0,15 | 33,5 | 35,5 | 42,5 | 2500 | 375 | 15 | 6,0 | PMB2303150*## |
| 3000 | 750 | 3500 | 0,22 | 33,5 | 35,5 | 42,5 | 2050 | 451 | 14,5 | 8,2 | RMB2303220*## |
| 3000 | 750 | 4000 | 0,22 | 33 | 45 | 42,5 | 2500 | 550 | 19 | 4,3 | PMB2303220*## |
| 3000 | 750 | 3500 | 0,33 | 33,5 | 35,5 | 42,5 | 2050 | 676,5 | 16,5 | 6,1 | RMB2303330*## |
| 3000 | 750 | 4000 | 0,33 | 30 | 45 | 57,5 | 1400 | 462 | 21 | 4,3 | PMB2303330*## |
| 3000 | 750 | 3500 | 0,47 | 33 | 45 | 42,5 | 2050 | 963,5 | 19,5 | 5 | RMB2303470*## |
| 3000 | 750 | 4000 | 0,47 | 35 | 50 | 57,5 | 1400 | 658 | 24 | 3,8 | PMB2303470*## |
| 3000 | 750 | 3500 | 0,68 | 35 | 50 | 57,5 | 1150 | 782 | 22 | 5,2 | RMB2303680*## |
| 3000 | 750 | 3500 | 0,82 | 35 | 50 | 57,5 | 1150 | 943 | 24 | 4,7 | RMB2303820*## |

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - ⁽²⁾Maximum values at 100kHz, +70°C for case operating T= +85°C (PMB only: at T amb. >+70°C and T case>+85°C voltage and current de-rating must be observed), C tol. ± ±10% - ⁽³⁾Typical values at 100kHz - ⁽⁴⁾Not suitable for across the line application

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