

# PMB / RMB - (Expanded range; new lugs)

## Metallized polypropylene film capacitor

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



#### Main applications

Snubber capacitor for energy conversion and control in power semiconductor circuits, IGBT modules protection and SMPS protection circuits, resonant 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 (brass) 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 12 $\mu$ F. 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), +85°C

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

#### Temperature de-rated voltage

PMB: for operating temperature (case)  $> +85^\circ\text{C}$

Ur must be decreased 1,5% for every  $^\circ\text{C}$  exceeding +85°C,

Urms must be decreased 2,5% for every  $^\circ\text{C}$  exceeding +85°C

RMB: not applicable

#### Non recurrent surge voltage (Upk), +85°C

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

RMB: 950, 1200, 1300, 1600, 2000, 2400, 3000, 3500 Vdc

#### 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  $I_{pk} = 1,5 \times I_{peak}$

#### Dissipation factor (DF), max.

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

$Cr \leq 0,1\mu\text{F}$	$0,1\mu\text{F} < Cr \leq 1\mu\text{F}$	$1\mu\text{F} < Cr \leq 5,6\mu\text{F}$	$5,6\mu\text{F} < Cr \leq 9\mu\text{F}$	$Cr > 9\mu\text{F}$
6	5	6	7	9

#### 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  $\leq 0,0010$  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

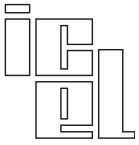
#### Life expectancy

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

#### Failure quota

300/10<sup>9</sup> component hours

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



# PMB / RMB - (Expanded range; new lugs)

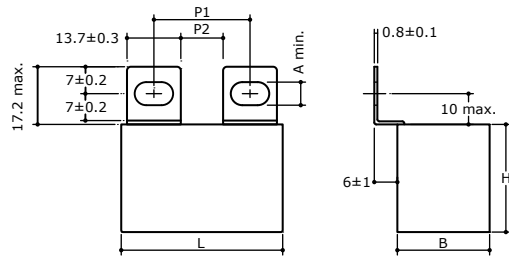
## Metallized polypropylene film capacitor

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

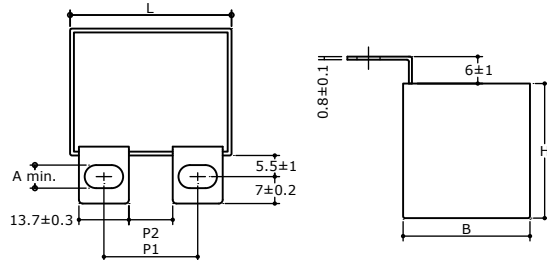


Dimensions in mm (drawings not in scale)

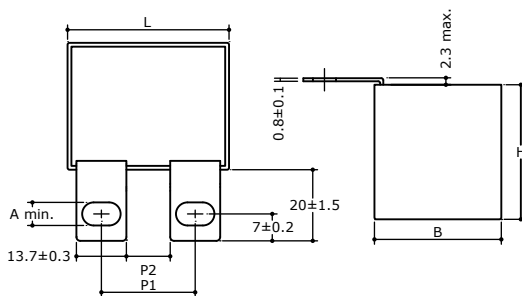
Style SP-SPM8 / SR-SRM8



Style VP-VPM8 / VR-VRM8



Style FP-FPM8 / FR-FRM8

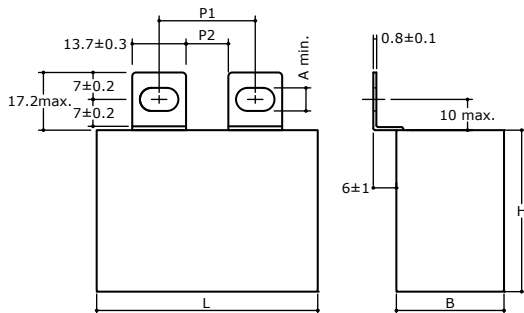


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SP-SPM8	42±42,5	23±28(M6) 25±26(M8)	11min.
VP-VPM8	57,5	37±42(M6) 39±40(M8)	24min.
FP-FPM8			
SR-SRM8	42±42,5	20±25(M6) 22±23(M8)	8min.
VR-VRM8	57,5	34±39(M6) 36±37(M8)	21min.
FR-FRM8			

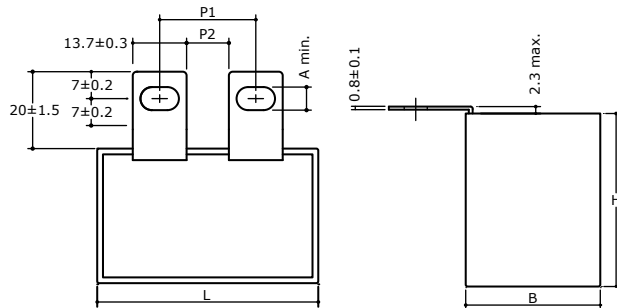
Fixing slot size (mm)**	
SP, VP, FP, SR, VR, FR	A=6min.
SPM8, VPM8, FPM8, SRM8, VRM8, FRM8	A=8min.

\*\* Standard fixing slots for M6 screws, slots for M8 screws available upon request

Style SN-SNM8 (for L=57.5mm only)



Style VN-VNM8 (for L=57.5mm only)

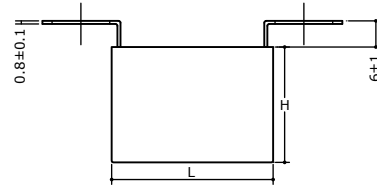
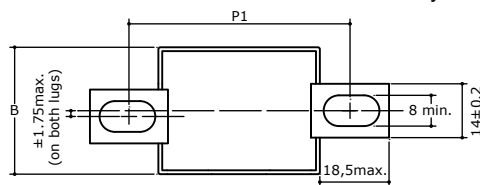


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SN-SNM8	42±42,5	Not available	
VN-VNM8	57,5	23±28(M6) 25±26(M8)	11min.

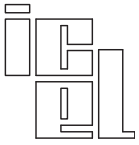
Fixing slot size (mm)**	
SN, VN	A= 6min.
SNM8, VNM8	A= 8min.

\*\* Standard fixing slots for M6 screws, slots for M8 screws available upon request

Style AP



Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
AP	42±42,5	51±64 (M8)	-
	57,5	65±78 (M8)	-

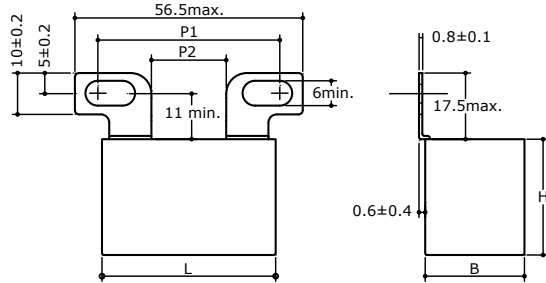


**PMB / RMB - (Expanded range; new lugs)**  
**Metallized polypropylene film capacitor**  
**MKP - Snubber/pulse - High current - (RMB: small size)**



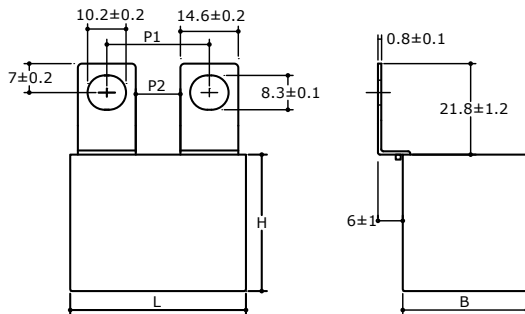
Dimensions in mm (drawings not in scale)

Style **BP** (Not available for L=57.5mm)



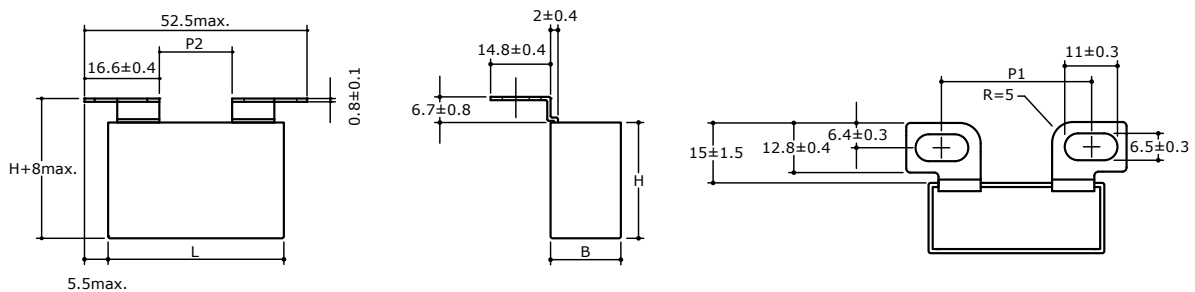
Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BP	42÷42.5	32÷45 (M6)	17min.
	57.5	Not available	

Style **SL** (M8 slots only)

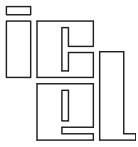


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SL	42÷42.5	22÷24 (M8)	8min.
	57.5	36÷38 (M8)	21min.

Style **BN** (M6 slots only; not available for L=57.5mm and for L=42÷42,5mm having B>22mm)



Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BN	42÷42.5	30÷37 (M6)	15min.
		Not available for B>22	
	57.5	Not available	



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## Metallized polypropylene film capacitor

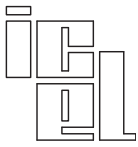
### MKP - Snubber/pulse - High current - (RMB: small size)



PMB / RMB article table (different values available upon request) - (^)= NOT for new design, replaced with 30x45x42,5mm box

Ur Vdc	Urms Vac <sup>(4)</sup>	UpK Vdc	Cap. µF	Dimension in mm			du/dt V/µs	Ipeak A	Irms <sup>(2)</sup> A	ESR <sup>(3)</sup> mΩ	ICEL Code <sup>(1)</sup>
				B	H	L					
700	420	1100	1	17	28	42,5	600	600	16,5	3,3	PMB1704100*##
700	420	1100	1,2	17	32	42	600	720	18	3,1	PMB1704120*##A
700	420	1100	1,2	24,5	27,5	42,5	600	720	18	3,1	PMB1704120*##
700	380	950	1,5	17	28	42,5	455	682,5	13,5	4,7	RMB1704150*##
700	420	1100	1,5	22	33,5	42,5	600	900	20	2,8	PMB1704150*##
700	420	1100	2	33,5	35,5	42,5	600	1200	23,5	2,5	PMB1704200*##
700	420	950	2,2	22	30	42,5	455	1001	16,5	3,7	RMB1704220*##
700	420	1100	2,2	33,5	35,5	42,5	600	1320	24,5	2,4	PMB1704220*##
700	420	1100	2,2	28	37	42,5	600	1320	24,5	2,4	PMB1704220*##A
700	380	950	2,5	22	33,5	42,5	455	1137,5	18	3,5	RMB1704250*##
700	420	1100	2,5	33,5	35,5	42,5	600	1500	25,5	2,2	PMB1704250*##
700	420	1100	3	30	45	42,5	600	1800	28,5	2,1	PMB1704300*##A
700	420	1100	3	33	45	42,5	600	1800	28,5	2,1	PMB1704300*## (^)
700	380	950	3,3	33,5	35,5	42,5	455	1501,5	21	3,1	RMB1704330*##
700	420	1100	3,3	30	45	42,5	600	1980	29,5	2,1	PMB1704330*##A
700	420	1100	3,3	33	45	42,5	600	1980	29,5	2,1	PMB1704330*## (^)
700	420	1100	3,5	33	45	42,5	600	2100	31,5	2	PMB1704350*##
700	380	950	4	33,5	35,5	42,5	455	1820	24	2,7	RMB1704400*##
700	420	1100	4	30	45	57,5	360	1440	29	2,3	PMB1704400*##
700	380	950	4,7	30	45	42,5	455	2138,5	26,5	2,6	RMB1704470*##
700	420	1100	4,7	35	50	57,5	360	1692	32,5	2,1	PMB1704470*##
700	380	950	5	30	45	42,5	455	2275	27,5	2,6	RMB1704500*##
700	420	1100	5	35	50	57,5	360	1800	33	2,1	PMB1704500*##
700	380	950	5,6	33	45	42,5	455	2548	29,5	2,3	RMB1704560*##
700	420	1100	5,6	35	50	57,5	360	2016	34	2	PMB1704560*##
700	420	1100	6,3	35	50	57,5	360	2268	35,5	1,8	PMB1704630*##
700	380	950	6,8	30	45	57,5	285	1938	25	3,1	RMB1704680*##
700	420	1100	6,8	38	57,5	57,5	360	2448	37,5	1,7	PMB1704680*##
700	380	950	7,5	30	45	57,5	285	2137,5	27	2,8	RMB1704750*##
700	420	1100	8	38	57,5	57,5	360	2880	39,5	1,6	PMB1704800*##
700	380	950	10	35	50	57,5	285	2850	31,5	2,4	RMB1705100*##
700	380	950	12	38	57,5	57,5	285	3420	35,5	2,1	RMB1705120*##
850	500	1300	0,68	17	28	42,5	750	510	15	3,5	PMB1853680*##
850	500	1300	0,82	17	32	42	750	615	17,5	3,1	PMB1853820*##A
850	500	1300	0,82	24,5	27,5	42,5	750	615	17	3,1	PMB1853820*##
850	500	1200	1	17	32	42	600	600	13,5	4,9	RMB1854100*##
850	500	1300	1	24,5	27,5	42,5	750	750	19	2,7	PMB1854100*##
850	500	1200	1,5	22	33,5	42,5	600	900	16	4,5	RMB1854150*##
850	500	1300	1,5	33,5	35,5	42,5	750	1125	24,5	2,2	PMB1854150*##
850	500	1300	1,75	28	37	42,5	750	1312,5	26,5	2,1	PMB1854150*##
850	500	1300	1,75	33,5	35,5	42,5	750	1312,5	26,5	2,1	PMB1854175*##
850	500	1300	2	30	45	42,5	750	1500	28,5	2	PMB1854200*##A
850	500	1300	2	33	45	42,5	750	1500	28,5	2	PMB1854200*## (^)
850	500	1200	2,2	33,5	35,5	42,5	600	1320	19	4	RMB1854220*##
850	500	1200	2,2	28	37	42,5	600	1320	20	4	RMB1854220*##A
850	500	1300	2,2	30	45	42,5	750	1650	29,5	2	PMB1854220*##
850	500	1300	2,2	33	45	42,5	750	1650	29,5	2	PMB1854220*## (^)
850	500	1200	2,5	33,5	35,5	42,5	600	1500	21	3,6	RMB1854250*##
850	500	1300	2,5	33	45	42,5	750	1875	31,5	1,9	PMB1854250*##
850	500	1200	3	30	45	42,5	600	1800	24,5	3,1	RMB1854300*##
850	500	1300	3	30	45	57,5	450	1350	29,5	2,2	PMB1854300*##
850	500	1200	3,3	30	45	42,5	600	1980	25,5	3,1	RMB1854330*##
850	500	1300	3,3	30	45	57,5	450	1485	31	2,1	PMB1854330*##
850	500	1200	3,5	33	45	42,5	600	2100	26,5	3	RMB1854350*##
850	500	1200	4	30	45	57,5	360	1440	25	3,3	RMB1854400*##
850	500	1300	4	35	50	57,5	450	1800	34	1,9	PMB1854400*##
850	500	1200	4,7	35	50	57,5	450	2125	36,5	1,8	PMB1854470*## (^)
850	500	1200	5	38	57,5	57,5	450	2250	37,5	1,8	PMB1854500*##
850	500	1200	5,6	35	50	57,5	360	2016	29,5	2,9	RMB1854560*##
850	500	1300	5,6	38	57,5	57,5	450	2520	39	1,6	PMB1854560*##
850	500	1300	6	38	57,5	57,5	450	2700	39,5	1,6	PMB1854600*## (^)
850	500	1200	6,8	38	57,5	57,5	360	2448	31,5	2,6	RMB1854680*##
850	500	1200	8	38	57,5	57,5	360	2880	35	2,3	RMB1854800*##

(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% (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 power dissipation variation must be taken in consideration) - (4)Not suitable for across the line application - (^): Not available with C tolerance <±10%

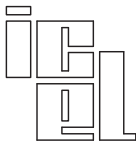


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Ur Vdc	Urms Vac <sup>(4)</sup>	UpK Vdc	Cap. µF	Dimension in mm			du/dt V/µs	Ipeak A	Irms <sup>(2)</sup> A	ESR <sup>(3)</sup> mΩ	ICEL Code <sup>(1)</sup>
				B	H	L					
1000	575	1550	0,47	17	28	42,5	870	408,9	15	3,9	PMB2103470*##
1000	575	1300	0,68	17	28	42,5	750	510	13,5	4,9	RMB2103680*##
1000	575	1550	0,68	24,5	27,5	42,5	870	591,6	17	3,3	PMB2103680*##
1000	575	1550	0,75	24,5	27,5	42,5	870	652,5	18,5	3,1	PMB2103750*##
1000	575	1300	1	24,5	27,5	42,5	750	750	16,5	3,9	RMB2104100*##
1000	575	1300	1,2	22	33,5	42,5	750	900	18	3,6	RMB2104120*##
1000	575	1550	1,2	28	37	42,5	870	1044	24	2,5	PMB2104120*##
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	26	2,2	PMB2104150*##
1000	575	1300	1,75	28	37	42,5	750	1312,5	22	3,1	RMB2104175*##
1000	575	1550	1,75	33	45	42,5	870	1522,5	28	2,1	PMB2104175*##
1000	575	1550	2	30	45	42,5	870	1740	29,5	2	PMB2104200*##A
1000	575	1550	2	33	45	42,5	870	1740	29,5	2	PMB2104200*## (^)
1000	575	1300	2,2	30	45	42,5	750	1650	25,5	3	RMB2104220*##A
1000	575	1300	2,2	33	45	42,5	750	1650	25,5	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	26,5	2,8	RMB2104250*##
1000	575	1300	3	30	45	57,5	450	1350	25	3,1	RMB2104300*##
1000	575	1550	3	35	50	57,5	500	1500	32,5	2,1	PMB2104300*##
1000	575	1300	3,3	30	45	57,5	450	1485	26,5	3	RMB2104330*##
1000	575	1550	3,3	35	50	57,5	500	1650	34,5	2	PMB2104330*##
1000	575	1300	4	35	50	57,5	450	1800	29,5	2,7	RMB2104400*##
1000	575	1300	4,7	35	50	57,5	450	2250	31,5	2,6	RMB2104470*## (^)
1000	575	1550	4,7	38	57,5	57,5	500	2350	38,5	1,7	PMB2104470*##
1000	575	1300	5,6	38	57,5	57,5	450	2520	33,5	2,4	RMB2104560*##
1000	575	1300	6	38	57,5	57,5	450	2700	34,5	2,3	RMB2104600*## (^)
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	13,5	4,6	PMB2123390*##B
1200	630	1750	0,39	24,5	27,5	42,5	1000	390	14	4,6	PMB2123390*##
1200	630	1600	0,47	17	28	42,5	870	408,9	12,5	5,6	RMB2123470*##
1200	630	1750	0,47	17	32	42	1000	470	15	4,1	PMB2123470*##A
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	1600	0,68	22	30	42,5	870	591,6	15	4,6	RMB2123680*##
1200	630	1750	0,68	22	33,5	42,5	1000	680	20	3,3	PMB2123680*##A
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	28	37	42,5	1000	1000	23,5	2,7	PMB2124100*##A
1200	630	1750	1	33,5	35,5	42,5	1000	1000	22,5	2,7	PMB2124100*##
1200	630	1600	1,2	28	37	42,5	870	1044	21	3,6	RMB2124120*##A
1200	630	1600	1,2	33,5	35,5	42,5	870	1044	20,5	3,6	RMB2124120*##
1200	630	1750	1,2	30	45	42,5	1000	1200	26	2,4	PMB2124120*##A
1200	630	1750	1,2	33	45	42,5	1000	1200	26	2,4	PMB2124120*## (^)
1200	630	1600	1,5	33,5	35,5	42,5	870	1305	22	3,2	RMB2124150*##
1200	630	1750	1,5	33	45	42,5	1000	1500	28,5	2,1	PMB2124150*##
1200	630	1600	2	30	45	42,5	870	1740	26,5	2,9	RMB2124200*##A
1200	630	1600	2	33	45	42,5	870	1740	26,5	2,9	RMB2124200*## (^)
1200	630	1750	2	30	45	57,5	575	1150	28,5	2,4	PMB2124200*##
1200	630	1600	2,2	30	45	57,5	500	1100	24	3,6	RMB2124220*##
1200	630	1750	2,2	35	50	57,5	575	1265	31,5	2,3	PMB2124220*##
1200	630	1600	2,5	30	45	57,5	500	1250	26	3,4	RMB2124250*##
1200	630	1750	2,5	35	50	57,5	575	1437,5	34	2,1	PMB2124250*##
1200	630	1600	3	35	50	57,5	500	1500	28	3	RMB2124300*##
1200	630	1600	3,3	35	50	57,5	500	1650	29,5	2,9	RMB2124330*##
1200	630	1750	3,3	38	57,5	57,5	575	1897,5	37,5	1,9	PMB2124330*##
1200	630	1750	3,5	38	57,5	57,5	575	2012,5	38,5	1,9	PMB2124350*##
1200	630	1600	4	38	57,5	57,5	500	2000	31	2,5	RMB2124400*##
1200	630	1600	4,7	38	57,5	57,5	500	2350	34	2,3	RMB2124470*##

<sup>(1)</sup>Change the \* symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - <sup>(2)</sup>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% (for wider C tolerances, ESR variation must be taken in consideration) - <sup>(3)</sup>Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration) - <sup>(4)</sup>Not suitable for across the line application - (^): Not available with C tolerance <±10%



# PMB / RMB - (Expanded range; new lugs)

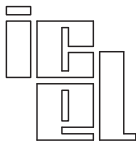
## Metallized polypropylene film capacitor

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



Ur Vdc	Urms Vac <sup>(4)</sup>	UpK Vdc	Cap. $\mu$ F	Dimension in mm			du/dt V/ $\mu$ s	Ipeak A	Irms <sup>(2)</sup> A	ESR <sup>(3)</sup> m $\Omega$	ICEL Code <sup>(1)</sup>
				B	H	L					
1500	650	2200	0,22	17	28	42,5	1220	268,4	12	6,1	PMB2153220*##
1500	650	2200	0,33	17	32	42	1220	402,6	14,5	4,6	PMB2153330*##A
1500	650	2200	0,33	24,5	27,5	42,5	1220	402,6	14	4,6	PMB2153330*##
1500	650	2000	0,39	17	28	42,5	1000	390	11,6	6,6	RMB2153390*##
1500	650	2200	0,39	24,5	27,5	42,5	1220	475,8	16	4,2	PMB2153390*##
1500	650	2000	0,47	17	32	42	1000	470	13,5	5,8	RMB2153470*##
1500	650	2200	0,47	22	33,5	42,5	1220	573,4	18,5	3,7	PMB2153470*##A
1500	650	2200	0,47	33,5	35,5	42,5	1220	573,4	18,5	3,7	PMB2153470*##
1500	650	2000	0,56	22	30	42,5	1000	560	14,5	5,1	RMB2153560*##
1500	650	2000	0,56	24,5	27,5	42,5	1000	560	14,5	5,1	RMB2153560*##A
1500	650	2000	0,68	22	33,5	42,5	1000	680	15,5	4,7	RMB2153680*##
1500	650	2200	0,68	28	37	42,5	1220	829,6	22	3,1	PMB21543680*##A
1500	650	2200	0,68	33,5	35,5	42,5	1220	829,6	21,5	3,1	PMB2153680*##
1500	650	2200	0,75	33,5	35,5	42,5	1220	915	23	2,8	PMB2154200*##
1500	650	2000	1	28	37	42,5	1000	1000	19,5	4	RMB2154100*##
1500	650	2200	1	33	45	42,5	1220	1220	26,5	2,5	PMB2154100*##
1500	650	2000	1,2	30	45	42,5	1000	1200	23,5	3,5	RMB2154120*##
1500	650	2200	1,2	30	45	57,5	725	870	26,5	2,8	PMB2154120*##
1500	650	2000	1,5	33	45	42,5	1000	1500	25,5	3,2	RMB2154150*##
1500	650	2200	1,5	35	50	57,5	725	1087,5	30	2,5	PMB2154150*##
1500	650	2200	1,8	35	50	57,5	725	1305	32	2,3	PMB2154180*##
1500	650	2000	2	30	45	57,5	575	1150	24,5	3,5	RMB2154200*##
1500	650	2000	2,2	35	50	57,5	575	1265	26,5	3,4	RMB2154220*##
1500	650	2200	2,2	38	57,5	57,5	725	1595	34,5	2,2	PMB2154220*##
1500	650	2000	2,5	35	50	57,5	575	1437,5	28,5	3,2	RMB2154250*##
1500	650	2000	3	38	57,5	57,5	575	1725	30	2,9	RMB2154300*##
1500	650	2000	3,3	38	57,5	57,5	575	1897,5	31,5	2,8	RMB2154330*##
2000	700	2600	0,1	17	28	42,5	1600	160	8,5	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	17	28	42,5	1600	240	11	7,4	PMB2203150*##A
2000	700	2600	0,15	24,5	27,5	42,5	1600	240	11	7,4	PMB2203150*##
2000	700	2400	0,22	17	28	42,5	1220	268,4	10,5	8,8	RMB2203220*##
2000	700	2600	0,22	17	32	42	1600	352	14	5,1	PMB2203220*##A
2000	700	2600	0,22	24,5	27,5	42,5	1600	352	14	5,1	PMB2203220*##
2000	700	2400	0,33	24,5	27,5	42,5	1220	402,6	13	6,6	RMB2203330*##
2000	700	2600	0,33	33,5	35,5	42,5	1600	528	18	4,1	PMB2203330*##
2000	700	2400	0,39	22	33,5	42,5	1220	975,8	14	6,1	RMB2203390*##
2000	700	2600	0,39	28	37	42,5	1600	624	20,5	3,7	PMB2203390*##A
2000	700	2600	0,39	33,5	35,5	42,5	1600	624	20,5	3,7	PMB2203390*##
2000	700	2400	0,47	33,5	35,5	42,5	1220	573,4	16,5	5,3	RMB2203470*##
2000	700	2600	0,47	30	45	42,5	1600	752	22	3,3	PMB2203470*##A
2000	700	2600	0,47	33	45	42,5	1600	752	22	3,3	PMB2203470*## (^)
2000	700	2400	0,56	28	37	42,5	1220	683,2	17,5	4,9	RMB2203470*##
2000	700	2600	0,56	30	45	42,5	1600	896	24,5	3	PMB2203560*##A
2000	700	2600	0,56	33	45	42,5	1600	896	24,5	3	PMB2203560*## (^)
2000	700	2400	0,68	33,5	35,5	42,5	1220	829,6	18,5	4,6	RMB2203680*##
2000	700	2600	0,68	30	45	57,5	930	632,4	23	3,5	PMB2203680*##
2000	700	2400	0,82	30	45	42,5	1220	1000,4	21,5	4,1	RMB2203820*##A
2000	700	2400	0,82	33	45	42,5	1220	1000,4	21,5	4,1	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	23,5	3,7	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	23	4	RMB2204120*##
2000	700	2600	1,2	35	50	57,5	930	1116	31,5	2,5	PMB2204120*##
2000	700	2400	1,5	35	50	57,5	725	1087,5	26,5	3,6	RMB2204150*##
2000	700	2600	1,5	38	57,5	57,5	930	1395	35	2,2	PMB2204150*##
2000	700	2400	2,2	38	57,5	57,5	725	1595	30,5	3	RMB2204220*##

<sup>(1)</sup>Change the \* symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - <sup>(2)</sup> 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% (for wider C tolerances, ESR variation must be taken in consideration) - <sup>(3)</sup>Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration) - <sup>(4)</sup>Not suitable for across the line application - (^): Not available with C tolerance <±10%



**PMB / RMB - (Expanded range; new lugs)**  
**Metallized polypropylene film capacitor**  
**MKP - Snubber/pulse - High current - (RMB: small size)**



Ur Vdc	Urms Vac <sup>(4)</sup>	UpK Vdc	Cap. µF	Dimension in mm			du/dt V/µs	Ipeak A	Irms <sup>(2)</sup> A	ESR <sup>(3)</sup> mΩ	ICEL Code <sup>(1)</sup>
				B	H	L					
2500	725	3300	0,1	17	28	42,5	2050	205	9	11	PMB2253100*##B
2500	725	3300	0,1	24,5	27,5	42,5	2050	205	9	11	PMB2253100*##
2500	725	3000	0,15	17	28	42,5	1600	240	9,5	10,7	RMB2253150*##
2500	725	3300	0,15	24,5	27,5	42,5	2050	307,5	12	7,1	PMB2253150*##
2500	725	3000	0,22	17	32	42	1600	352	11,5	7,3	RMB2253220*##
2500	725	3000	0,22	24,5	27,5	42,5	1600	352	11,5	7,3	RMB2253220*##A
2500	725	3300	0,22	33,5	35,5	42,5	2050	451	16	5,2	PMB2253220*##
2500	725	3000	0,27	22	33,5	42,5	1600	432	13,5	6,1	RMB2253270*##
2500	725	3300	0,27	28	37	42,5	2050	553,5	18	4,5	PMB2253270*##
2500	725	3300	0,33	33,5	35,5	42,5	2050	676,5	19,5	3,8	PMB2253330*##
2500	725	3300	0,39	30	45	42,5	2050	799,5	23,5	3,4	PMB2253390*##
2500	725	3000	0,47	30	45	42,5	1600	752	19,5	4,7	RMB2253470*##
2500	725	3300	0,47	33	45	42,5	2050	963,5	26	3,1	PMB2253470*##
2500	725	3300	0,56	30	45	57,5	1150	644	23,5	3,5	PMB2253680*##
2500	725	3000	0,68	30	45	57,5	930	632,4	20	5	RMB2253680*##
2500	725	3300	0,68	35	50	57,5	1150	782	26	3,2	PMB2253680*##
2500	725	3000	0,82	30	45	57,5	930	762,6	22	4,5	RMB2253820*##
2500	725	3300	0,82	35	50	57,5	1150	943	29	2,9	PMB2253820*##
2500	725	3000	1	35	50	57,5	930	930	24	4,1	RMB2254100*##
2500	725	3300	1	38	57,5	57,5	1150	1150	32	2,7	PMB2254100*##
2500	725	3000	1,2	35	50	57,5	930	1116	26	3,6	RMB2254120*##
2500	725	3000	1,5	38	57,5	57,5	930	1395	30	3,2	RMB2254150*##
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	9	11,5	PMB2302680*##B
3000	750	4000	0,068	24,5	27,5	42,5	2500	170	9	11,5	PMB2302680*##
3000	750	3500	0,1	17	28	42,5	2050	205	7,5	15,5	RMB2303100*##
3000	750	4000	0,1	22	30	42,5	2500	250	12,5	8,5	PMB2303100*##A
3000	750	4000	0,1	33,5	35,5	42,5	2500	250	12,5	8,5	PMB2303100*##
3000	750	3500	0,15	22	30	42,5	2050	307,5	10,5	10,2	RMB2303150*##
3000	750	4000	0,15	28	37	42,5	2500	375	15,5	5,9	PMB2303150*##A
3000	750	4000	0,15	33,5	35,5	42,5	2500	375	15,5	5,9	PMB2303150*##
3000	750	3500	0,22	28	37	42,5	2050	451	14,5	7,3	RMB2303220*##A
3000	750	3500	0,22	33,5	35,5	42,5	2050	451	14,5	7,3	RMB2303220*##
3000	750	4000	0,22	33	45	42,5	2500	550	21	4,3	PMB2303220*##
3000	750	3500	0,33	33,5	35,5	42,5	2050	676,5	17	5,4	RMB2303330*##
3000	750	4000	0,33	30	45	57,5	1400	462	21,5	4,3	PMB2303330*##
3000	750	3500	0,47	33	45	42,5	2050	963,5	21,5	4,3	RMB2303470*##
3000	750	4000	0,47	35	50	57,5	1400	658	26	3,8	PMB2303470*##
3000	750	4000	0,56	38	57,5	57,5	1400	784	29	3,5	PMB2303560*##
3000	750	3500	0,68	35	50	57,5	1150	782	22	5,1	RMB2303680*##
3000	750	3500	0,82	35	50	57,5	1150	943	24,5	4,5	RMB2303820*##
3000	750	3500	1	38	57,5	57,5	1150	1150	28	3,9	RMB2304100*##

<sup>(1)</sup>Change the \* symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - <sup>(2)</sup>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% (for wider C tolerances, ESR variation must be taken in consideration) - <sup>(3)</sup>Typical values at 100kHz (for operating frequencies far from the reference, ESR variation and related power dissipation variation must be taken in consideration) - <sup>(4)</sup>Not suitable for across the line application - (^): Not available with C tolerance <±10%