



MHBA

- MKP • box with multiple radial or lug terminals
- small size • AC applications
- suitable for high Irms switching applications • DC-Link



Main applications

Switching capacitor for industrial and motor speed controls, high frequency electronic ballasts, switching mode power supplies, resonant circuits, induction heaters, input-output AC filtering, AC 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 metallized film (refer to General Technical Information)

Terminals

Tinned copper wire (lead-free). 2x terminals (S=5±1mm, L=25±5mm leads length), 4x terminals (SD=5,5±1,5mm), 6x terminals (ST=5,5±1.5mm) or Itinned copper (brass) lug terminals (lead-free) execution (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 ≥ 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)

Please refer also to paragraph C10 (humid ambient) of the General Technical Information

Operating temperature range (case)

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

Max. permissible ambient temperature

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

Nominal Capacitance (Cn) µF

0,47 µF to 75 µF. Refer to article table

Capacitance tolerance (at 1kHz)

±10% (code=K), ±5% (code=J). Other tolerances upon request

Capacitance temperature coefficient

Refer to General Technical Information

Long term stability (at 1kHz)

Capacitance variation ≤ ±1% after a period of 2 years at standard environmental conditions

Rated voltage (Ur) (Vdc)

370, 500, 600, 700, 800 Vdc

Temperature de-rated voltage

For operating temperature (case)>+85°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

Permissible AC voltage (Urms) (Vac)

160, 250, 330, 380, 400 Vac

Max. repetitive peak voltage (Upkr), total max 1 hour/day

415, 560, 675, 785, 900 Vdc

Non recurrent surge voltage (Upk)

470, 625, 750, 875, 1050 Vdc

Self inductance

≤ 1nH/mm of fixing pitch

Maximum pulse rise time V/µs

Refer to article table

Maximum peak current (Ipeak)

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

Dissipation factor (DF), max.

tgδ x10⁻⁴, measured at 25 ±5°C, 1 kHz

Cn ≤ 5 µF	5 µF < Cn ≤ 15 µF	15 µF < Cn ≤ 30 µF	30 µF < Cn ≤ 60 µF	Cn > 60 µF
6	10	13	15	17

Insulation resistance (R_{INS})

≥ 30000s when measured between terminals, at ±25°C, after 1 minute of electrification at 100 Vdc

Test voltage between terminals (Ut)

1,6xUr (DC) applied for 10s / 2xUr (DC) applied for 2s, at 25±5°C

Test voltage between terminals and case (Utc)

3kV 50÷60Hz applied for 60s at 25 ±5°C

Damp heat test (steady state)

Test conditions:

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

Performance:

Capacitance change ≤ ±2%
DF change ≤ 0.0010 at 1kHz
R_{INS} ≥ 50% of initial limit value

Typical capacitance change versus operating time

-3% after 30000 hours at Urms or after 100000 hours at Ur

Life expectancy

≥ 100000 hours (Ur); 30000 hours (Urms)

Failure quota

300/10⁹ component hours

Resistance to soldering heat test

Test conditions:

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

Performance:

Capacitance change ≤ ±1%
DF change ≤ 0.0010 at 1kHz
R_{INS} ≥ 50% of initial limit value



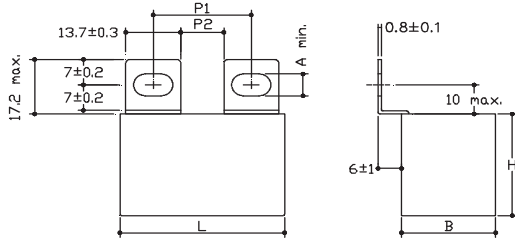
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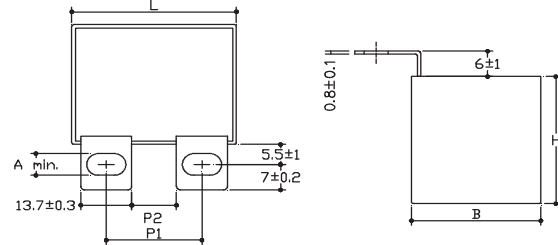


Dimensions in mm (drawings not in scale)

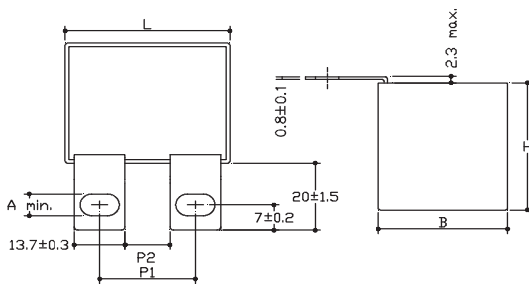
Style SP-SPM8 / SR-SRM8



Style VP-VPM8 / VR-VRM8



Style FP-FPM8 / FR-FRM8



Fixing pitch and distance between lugs (mm)

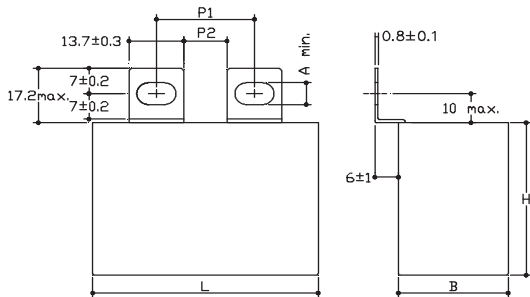
Lugs style	L	P1	P2
SP-SPM8	42÷42,5	23÷28(M6) 25÷26(M8)	11min.
VP-VPM8	57,5	37÷42(M6) 39÷40(M8)	24min.
FP-FPM8	57,5	34÷39(M6) 36÷37(M8)	21min.
SR-SRM8	42÷42,5	20÷25(M6) 22÷23(M8)	8min.
VR-VRM8	57,5	34÷39(M6) 36÷37(M8)	21min.
FR-FRM8	57,5	34÷39(M6) 36÷37(M8)	21min.

Fixing slot size (mm)**

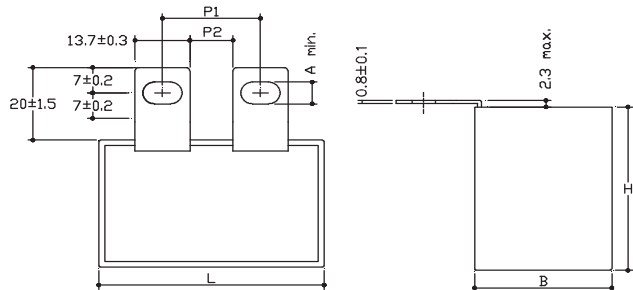
SP, VP, FP, SR, VR, FR	A= 6min.
SPM8, VPM8, FPM8, SRM8, VRM8, FRM8	A= 8min.

** 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)

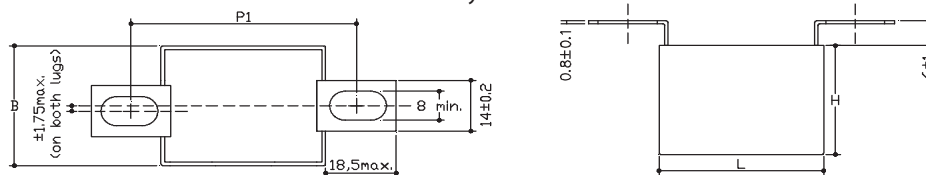
Lugs style	L	P1	P2
SN-SNM8	42÷42,5	Not available	
VN-VNM8	57,5	23÷28 (M6) 25÷26 (M8)	11min.

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	53,5÷63 (M8)	-
	57,5	68,5÷77 (M8)	-



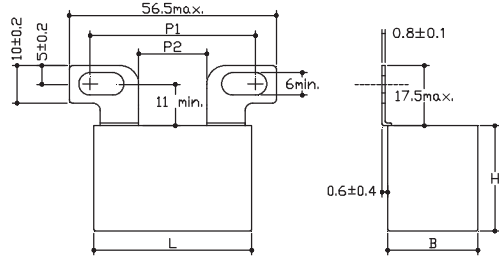
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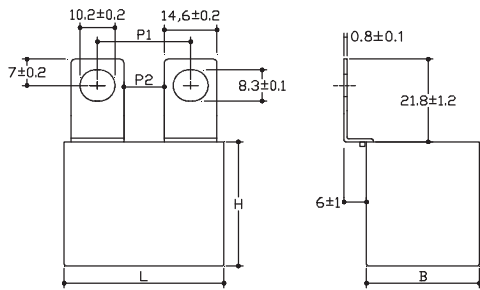
Style **BP** (Not available for L=57,5mm)



Fixing pitch and distance between lugs (mm)

Lugs style	L	P1	P2
BP	42÷42,5	32÷45 (M6)	17min.
	57,5	Not available	

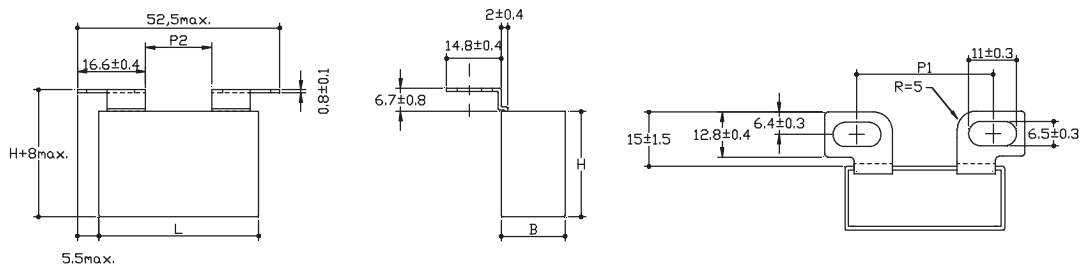
Style **SL** (M8 slots only)



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	

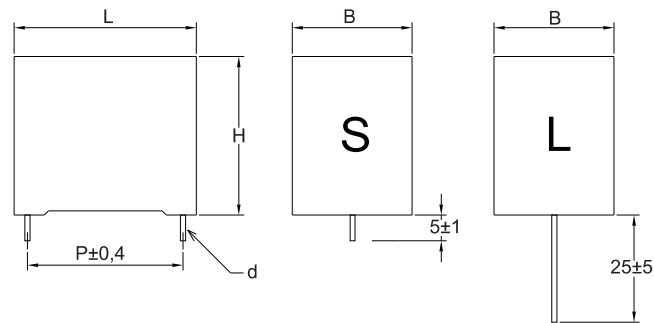


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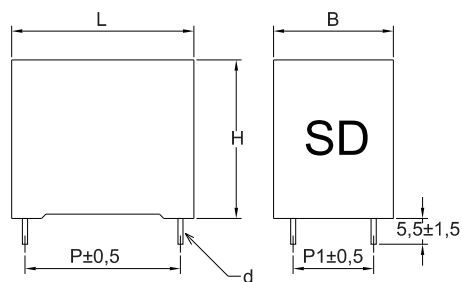
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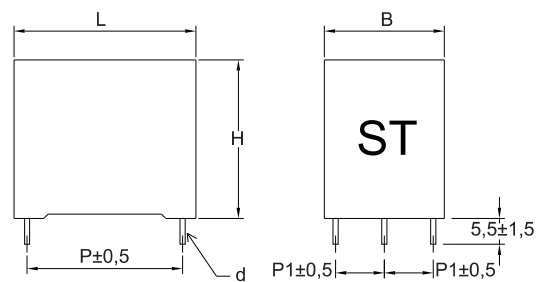
2 terminals execution



4 terminals execution



6 terminals execution



MHBA article table (different values available upon request)

Voltage at +85°C			Cn μF	Dimensions (mm)						du/dt V/μs	Ipeak A	I _{rms} ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upkr (Vdc)		B	H	L	d	P	P1					
370	160	415	3	11	20	32	0,8	27,5	-	55	165	5	13,7	MHBA044300*H#
370	160	415	4	13	22	32	1	27,5	-	55	220	6	11,3	MHBA044400*H#
370	160	415	5	14	28	32	1	27,5	-	55	275	7,5	9,9	MHBA044500*H#
370	160	415	6,8	18	33	32	1,2	27,5	-	55	374	10	8,3	MHBA044680*H#
370	160	415	6,8	18	33	32	1,2	27,5	5,1	55	374	12	7,6	MHBA044680*HSD
370	160	415	10	22	37	32	1,2	27,5	-	55	550	13	6	MHBA045100*H#
370	160	415	10	22	37	32	1,2	27,5	10,2	55	550	15	5,3	MHBA045100*HSD
370	160	415	10	17	28	42,5	1,2	37,5	-	37,5	375	10,5	6,9	MHBA045100*J#
370	160	415	10	17	28	42,5	-	-	-	37,5	375	12,5	6,1	MHBA045100*J\$
370	160	415	15	22	30	42,5	1,2	37,5	-	37,5	562,5	12,5	5,7	MHBA045150*J#
370	160	415	15	22	30	42,5	1,2	37,5	10,2	37,5	562,5	14	5,1	MHBA045150*JSD
370	160	415	15	22	30	42,5	-	-	-	37,5	562,5	15	5	MHBA045150*J\$
370	160	415	20	20	40	41,5	1,2	37,5	-	37,5	750	14	5	MHBA045200*J#
370	160	415	20	20	40	41,5	1,2	37,5	10,2	37,5	750	17	4,4	MHBA045200*JSD
370	160	415	22	28	37	42,5	1,2	37,5	-	37,5	825	14	4,7	MHBA045220*J#
370	160	415	22	28	37	42,5	1,2	37,5	10,2	37,5	825	17,5	4,1	MHBA045220*JSD
370	160	415	22	28	37	42,5	-	-	-	37,5	825	19,5	4	MHBA045220*J\$
370	160	415	25	24	44	41,5	1,2	37,5	-	37,5	937,5	14	4,3	MHBA045250*J#
370	160	415	25	24	44	41,5	1,2	37,5	10,2	37,5	937,5	20,5	3,7	MHBA045250*JSD
370	160	415	33	30	45	42,5	1,2	37,5	-	37,5	1237,5	14	4	MHBA045330*J#
370	160	415	33	30	45	42,5	1,2	37,5	20,3	37,5	1237,5	22	3,4	MHBA045330*JSD
370	160	415	33	30	45	42,5	-	-	-	37,5	1237,5	24	3,3	MHBA045330*J\$

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and \$\$ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase >+85°C (voltage and I_{rms} de-rating must be observed), C tol. ≤±10% (for wider C tolerance, 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



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Voltage at +85°C			Cn μF	Dimensions (mm)						du/dt V/μs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upkr (Vdc)		B	H	L	d	P	P1					
370	160	415	40	35	50	42	1,2	37,5	-	37,5	1500	14	3	MHBA045400*J#
370	160	415	40	35	50	42	1,2	37,5	20,3	37,5	1500	26,5	2,4	MHBA045400*JSD
370	160	415	40	35	50	42	-	-	-	37,5	1500	29	2,3	MHBA045400*SSA
370	160	415	40	30	45	57,5	1,2	52,5	-	25	1000	14	4,5	MHBA045400*R#
370	160	415	40	30	45	57,5	1,2	52,5	20,3	25	1000	22	3,9	MHBA045400*RSD
370	160	415	40	30	45	57,5	-	-	-	25	1000	24	3,8	MHBA045400*SS
370	160	415	50	35	50	57,5	1,2	52,5	-	25	1250	14	3,9	MHBA045500*R#
370	160	415	50	35	50	57,5	1,2	52,5	20,3	25	1250	25	3,3	MHBA045500*RSD
370	160	415	50	35	50	57,5	-	-	-	25	1250	27,5	3,2	MHBA045500*SS
370	160	415	60	35	50	57,5	1,2	52,5	-	25	1500	14	3,6	MHBA045600*R#
370	160	415	60	35	50	57,5	1,2	52,5	20,3	25	1500	26	3	MHBA045600*RSD
370	160	415	60	35	50	57,5	-	-	-	25	1500	29	2,9	MHBA045600*SS
370	160	415	68	38	57,5	57,5	1,2	52,5	20,3	25	1700	27	2,8	MHBA045680*RSD
370	160	415	68	38	57,5	57,5	1,2	52,5	10,2	25	1700	28,5	2,7	MHBA045680*RST
370	160	415	68	38	57,5	57,5	-	-	-	25	1700	30,5	2,7	MHBA045680*SS
370	160	415	75	38	57,5	57,5	1,2	52,5	20,3	25	1875	27	2,7	MHBA045750*RSD
370	160	415	75	38	57,5	57,5	1,2	52,5	10,2	25	1875	29,5	2,6	MHBA045750*RST
370	160	415	75	38	57,5	57,5	-	-	-	25	1875	31,5	2,6	MHBA045750*SS
500	250	560	1,5	11	20	32	0,8	27,5	-	70	105	4,5	17,2	MHBA034150*H#
500	250	560	2	13	22	32	1	27,5	-	70	140	6	14,3	MHBA034200*H#
500	250	560	2,2	13	22	32	1	27,5	-	70	154	6	13,6	MHBA034220*H#
500	250	560	3,3	15	24,5	32	1	27,5	-	70	231	7	11	MHBA034330*H#
500	250	560	4	18	33	32	1,2	27,5	-	70	280	8,5	9,9	MHBA034400*H#
500	250	560	5	18	33	32	1,2	27,5	-	70	350	9,5	8,7	MHBA034500*H#
500	250	560	5	18	33	32	1,2	27,5	5,1	70	350	11	8	MHBA034500*HSD
500	250	560	6,8	22	37	32	1,2	27,5	-	70	476	12	7,7	MHBA034680*H#
500	250	560	6,8	22	37	32	1,2	27,5	10,2	70	476	14	7	MHBA033680*HSD
500	250	560	7,5	22	30	42,5	1,2	37,5	-	47,5	356,2	10	8,3	MHBA034750*H#
500	250	560	7,5	22	30	42,5	-	-	-	47,5	356,2	11,5	7,5	MHBA034750*SS
500	250	560	10	22	33,5	42,5	1,2	37,5	-	47,5	475	12	6,7	MHBA035100*J#
500	250	560	10	22	33,5	42,5	1,2	37,5	10,2	47,5	475	13,5	6,1	MHBA035100*JSD
500	250	560	10	22	33,5	42,5	-	-	-	47,5	475	14,5	6	MHBA035100*SS
500	250	560	12,5	20	40	41,5	1,2	37,5	-	47,5	593,7	14	6,1	MHBA035125*J#
500	250	560	12,5	20	40	41,5	1,2	37,5	10,2	47,5	593,7	16	5,5	MHBA035125*JSD
500	250	560	15	28	37	42,5	1,2	37,5	-	47,5	712,5	14	5,4	MHBA035150*J#
500	250	560	15	28	37	42,5	1,2	37,5	20,3	47,5	712,5	16,5	4,8	MHBA035150*JSD
500	250	560	15	28	37	42,5	-	-	-	47,5	712,5	17,5	4,7	MHBA035150*SS
500	250	560	17,5	24	44	41,5	1,2	37,5	-	47,5	831,2	14	5	MHBA035175*J#
500	250	560	17,5	24	44	41,5	1,2	37,5	10,2	47,5	831,2	19	4,4	MHBA035175*JSD
500	250	560	22	30	45	42,5	1,2	37,5	-	47,5	1045	14	4,5	MHBA035220*J#
500	250	560	22	30	45	42,5	1,2	37,5	20,3	47,5	1045	19,5	3,9	MHBA035220*JSD
500	250	560	22	30	45	42,5	-	-	-	47,5	1045	21,5	3,8	MHBA035220*SS
500	250	560	25	35	50	42	1,2	37,5	-	47,5	1187,5	14	4,2	MHBA035250*J#
500	250	560	25	35	50	42	1,2	37,5	20,3	47,5	1187,5	21,5	3,6	MHBA035250*JSD
500	250	560	25	35	50	42	-	-	-	47,5	1187,5	23,5	3,5	MHBA035250*JSS
500	250	560	25	30	45	57,5	1,2	52,5	-	32,5	812,5	14	5	MHBA035250*R#
500	250	560	25	30	45	57,5	1,2	52,5	20,3	32,5	812,5	20	4,4	MHBA035250*RSD
500	250	560	25	30	45	57,5	-	-	-	32,5	812,5	22	4,3	MHBA035250*SS

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SS symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, ESR variation must be taken in consideration)

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U _r (Vdc)	U _{rms} (Vac) ⁽⁴⁾	U _{pk} (Vdc)		B	H	L	d	P	P1						
500	250	560	27	35	50	42	1,2	37,5	-	47,5	1282,5	14	4,1	MHBA035270*J#	
500	250	560	27	35	50	42	1,2	37,5	20,3	47,5	1282,5	22	3,5	MHBA035270*JSD	
500	250	560	27	35	50	42	-	-	-	47,5	1282,5	24	3,4	MHBA035270*\$\$	
500	250	560	30	30	45	57,5	1,2	52,5	-	32,5	975	14	4,5	MHBA035300*R#	
500	250	560	30	30	45	57,5	1,2	52,5	20,3	32,5	975	22	3,9	MHBA035300*RSD	
500	250	560	30	30	45	57,5	-	-	-	32,5	975	24	3,8	MHBA035300*\$\$	
500	250	560	40	35	50	57,5	1,2	52,5	-	32,5	1300	14	3,9	MHBA035400*R#	
500	250	560	40	35	50	57,5	1,2	52,5	20,3	32,5	1300	25	3,3	MHBA035400*RSD	
500	250	560	40	35	50	57,5	-	-	-	32,5	1300	28	3,2	MHBA035400*\$\$	
500	250	560	47	38	57,5	57,5	1,2	52,5	20,3	32,5	1527,5	26,5	3,1	MHBA035470*RSD	
500	250	560	47	38	57,5	57,5	-	-	-	32,5	1527,5	29	3	MHBA035470*\$\$	
500	250	560	55	38	57,5	57,5	1,2	52,5	20,3	32,5	1625	27	2,9	MHBA035550*RSD	
500	250	560	55	38	57,5	57,5	1,2	52,5	10,2	32,5	1625	28,5	2,8	MHBA035550*RST	
500	250	560	55	38	57,5	57,5	-	-	-	32,5	1625	30	2,8	MHBA035550*\$\$	
600	330	675	1,2	11	20	32	0,8	27,5	-	90	108	5	16,7	MHBA024120*H#	
600	330	675	1,5	13	22	32	1	27,5	-	90	135	6	13,5	MHBA024150*H#	
600	330	675	2	15	24,5	32	1	27,5	-	90	180	7	11,5	MHBA024200*H#	
600	330	675	2,2	15	24,5	32	1	27,5	-	90	198	7	10,7	MHBA024220*H#	
600	330	675	2,5	14	28	32	1	27,5	-	90	225	8	10,1	MHBA024250*H#	
600	330	675	3,3	18	33	32	1,2	27,5	-	90	297	10	8,7	MHBA024330*H#	
600	330	675	3,3	18	33	32	1,2	27,5	5,1	90	297	11,5	8	MHBA024330*HSD	
600	330	675	4	18	33	32	1,2	27,5	-	90	360	11	7,7	MHBA024400*H#	
600	330	675	4	18	33	32	1,2	27,5	10,2	90	360	12,5	7	MHBA024400*HSD	
600	330	675	4	17	28	42,5	1,2	37,5	-	60	240	9,5	8,9	MHBA024400*J#	
600	330	675	4	17	28	42,5	-	-	-	60	240	11	8,2	MHBA024400*\$\$	
600	330	675	5	22	37	32	1,2	27,5	-	90	450	12	7	MHBA024500*H#	
600	330	675	5	22	37	32	1,2	27,5	10,2	90	450	14	6,3	MHBA024500*HSD	
600	330	675	5	22	30	42,5	1,2	37,5	-	60	300	11,5	7,3	MHBA024500*J#	
600	330	675	5	22	30	42,5	-	-	-	60	300	13	6,6	MHBA024500*\$\$	
600	330	675	6,8	22	33,5	42,5	1,2	37,5	-	60	408	12,5	6,4	MHBA024680*J#	
600	330	675	6,8	22	33,5	42,5	-	-	-	60	408	15	5,7	MHBA024680*\$\$	
600	330	675	8,2	20	40	41,5	1,2	37,5	-	60	492	14	5,9	MHBA024820*J#	
600	330	675	8,2	20	40	41,5	1,2	37,5	10,2	60	492	16,5	5,3	MHBA024820*JSD	
600	330	675	10	28	37	42,5	1,2	37,5	-	60	600	14	5,4	MHBA025100*J#	
600	330	675	10	28	37	42,5	1,2	37,5	10,2	60	600	16,5	4,8	MHBA025100*JSD	
600	330	675	10	28	37	42,5	-	-	-	60	600	18,5	4,7	MHBA025100*\$\$	
600	330	675	12	24	44	41,5	1,2	37,5	-	60	720	14	5	MHBA025120*J#	
600	330	675	12	24	44	41,5	1,2	37,5	10,2	60	720	19	4,4	MHBA025120*JSD	
600	330	675	15	30	45	42,5	1,2	37,5	-	60	900	14	4,4	MHBA025150*J#	
600	330	675	15	30	45	42,5	1,2	37,5	20,3	60	900	21	3,8	MHBA025150*JSD	
600	330	675	15	30	45	42,5	-	-	-	60	900	23	3,7	MHBA025150*\$\$	
600	330	675	18	35	50	42	1,2	37,5	-	60	1080	14	4,1	MHBA025180*J#	
600	330	675	18	35	50	42	1,2	37,5	20,3	60	1080	22	3,5	MHBA025180*JSD	
600	330	675	18	35	50	42	-	-	-	60	1080	24	3,4	MHBA025180*\$\$	

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and \$\$ symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase >+85°C (voltage and I_{rms} de-rating must be observed), C tol. ≤±10% (for wider C tolerance, 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



MHBA

- MKP • box with multiple radial or lug terminals
- small size • AC applications
- suitable for high Irms switching applications • DC-Link



Voltage at +85°C			Cn μF	Dimensions (mm)							du/dt V/μs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upkr (Vdc)		B	H	L	d	P	P1						
600	330	675	20	30	45	57,5	1,2	52,5	-	40	800	14	4,7	MHBA025200*R#	
600	330	675	20	30	45	57,5	1,2	52,5	20,3	40	800	21	4,1	MHBA025200*RSD	
600	330	675	20	30	45	57,5	-	-	-	40	800	23	4	MHBA025200*\$S	
600	330	675	25	35	50	57,5	1,2	52,5	-	40	1000	14	4,2	MHBA025250*R#	
600	330	675	25	35	50	57,5	1,2	52,5	20,3	40	1000	24,5	3,6	MHBA025250*RSD	
600	330	675	25	35	50	57,5	-	-	-	40	1000	27	3,5	MHBA025250*\$S	
600	330	675	33	38	57,5	57,5	1,2	52,5	20,3	40	1320	26,5	3,1	MHBA025330*RSD	
600	330	675	33	38	57,5	57,5	1,2	52,5	10,2	40	1320	27,5	3	MHBA025330*RST	
600	330	675	33	38	57,5	57,5	-	-	-	40	1320	29	3	MHBA025330*\$S	
700	380	785	0,68	11	20	32	0,8	27,5	-	110	74,8	3,5	20,5	MHBA063680*H#	
700	380	785	1	13	22	32	1	27,5	-	110	110	5,5	15,5	MHBA064100*H#	
700	380	785	1,5	15	24,5	32	1	27,5	-	110	165	6,5	12,5	MHBA064150*H#	
700	380	785	2	14	28	32	1	27,5	-	110	220	7,5	10,6	MHBA064200*H#	
700	380	785	3	18	33	32	1,2	27,5	-	110	330	10	8,6	MHBA064300*H#	
700	380	785	3	18	33	32	1,2	27,5	5,1	110	330	11,5	7,9	MHBA064300*HSD	
700	380	785	3	17	28	42,5	1,2	37,5	-	75	225	9	9,9	MHBA064300*J#	
700	380	785	3	17	28	42,5	-	-	-	75	225	10,5	9,2	MHBA064300*\$S	
700	380	785	4	22	37	32	1,2	27,5	-	110	440	12	7,4	MHBA064400*H#	
700	380	785	4	22	37	32	1,2	27,5	10,2	110	440	14	6,7	MHBA064400*HSD	
700	380	785	4	22	30	42,5	1,2	37,5	-	75	300	10,5	8,5	MHBA064400*J#	
700	380	785	4	22	30	42,5	-	-	-	75	300	12	7,8	MHBA064400*\$S	
700	380	785	5	22	33,5	42,5	1,2	37,5	-	75	375	12	7,3	MHBA064500*J#	
700	380	785	5	22	33,5	42,5	-	-	-	75	375	13,5	6,6	MHBA064500*\$S	
700	380	785	6,8	20	40	41,5	1,2	37,5	-	75	510	14	6,4	MHBA064680*J#	
700	380	785	6,8	20	40	41,5	1,2	37,5	10,2	75	510	15,5	5,8	MHBA064680*JSD	
700	380	785	8	28	37	42,5	1,2	37,5	-	75	600	14	5,8	MHBA064800*J#	
700	380	785	8	28	37	42,5	1,2	37,5	10,2	75	600	16	5,2	MHBA064800*JSD	
700	380	785	8	28	37	42,5	-	-	-	75	600	17,5	5,1	MHBA064800*\$S	
700	380	785	10	30	45	42,5	1,2	37,5	-	75	750	14	5,3	MHBA065100*J#	
700	380	785	10	30	45	42,5	1,2	37,5	20,3	75	750	19	4,7	MHBA065100*JSD	
700	380	785	10	30	45	42,5	-	-	-	75	750	20,5	4,6	MHBA065100*\$S	
700	380	785	12,5	35	50	42	1,2	37,5	-	75	937,5	14	4,7	MHBA065125*J#	
700	380	785	12,5	35	50	42	1,2	37,5	20,3	75	937,5	20,5	4,1	MHBA065125*JSD	
700	380	785	12,5	35	50	42	-	-	-	75	937,5	22	4	MHBA065125*\$S	
700	380	785	15	30	45	57,5	1,2	52,5	-	50	750	14	5,4	MHBA065150*R#	
700	380	785	15	30	45	57,5	1,2	52,5	20,3	50	750	19,5	4,8	MHBA065150*RSD	
700	380	785	15	30	45	57,5	-	-	-	50	750	21,5	4,7	MHBA065150*\$S	
700	380	785	20	35	50	57,5	1,2	52,5	-	50	1000	14	4,7	MHBA065200*R#	
700	380	785	20	35	50	57,5	1,2	52,5	20,3	50	1000	23	4,1	MHBA065200*RSD	
700	380	785	20	35	50	57,5	-	-	-	50	1000	25	4	MHBA065200*\$S	
700	380	785	25	38	57,5	57,5	1,2	52,5	20,3	50	1250	25	3,6	MHBA065250*RSD	
700	380	785	25	38	57,5	57,5	1,2	52,5	10,2	50	1250	26	3,5	MHBA065250*RST	
700	380	785	25	38	57,5	57,5	-	-	-	50	1250	27	3,5	MHBA065250*\$S	
800	400	900	0,47	11	20	32	0,8	27,5	-	120	56,4	3	22,8	MHBA013470*H#	
800	400	900	0,56	11	20	32	0,8	27,5	-	120	67,2	4	19,2	MHBA013560*H#	
800	400	900	0,68	13	22	32	0,8	27,5	-	120	81,6	5	16,8	MHBA013680*H#	
800	400	900	1	15	24,5	32	1	27,5	-	120	120	6,5	13,8	MHBA014100*H#	

(1) Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and \$\$ symbols with needed lugs style

(2) Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase>+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, 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



MHBA

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- small size • AC applications
- suitable for high Irms switching applications • DC-Link



Voltage at +85°C			Cn μF	Dimensions (mm)						du/dt V/μs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL CODE ⁽¹⁾ -
Ur (Vdc)	Urms (Vac) ⁽⁴⁾	Upkr (Vdc)		B	H	L	d	P	P1					
800	400	900	1,5	18	33	32	1	27,5	-	120	180	8,5	11,1	MHBA014150*H#
800	400	900	2,2	18	33	32	1	27,5	-	120	264	9,5	9,1	MHBA014220*H#
800	400	900	2,5	17	28	42,5	1,2	37,5	-	82,5	206,2	9	9,8	MHBA014250*J#
800	400	900	2,5	17	28	42,5	-	-	-	82,5	206,2	10,5	9,1	MHBA014250*SS
800	400	900	3	22	37	32	1,2	27,5	-	120	360	12	7,8	MHBA014300*H#
800	400	900	3	22	37	32	1,2	27,5	10,2	120	360	13,5	7,1	MHBA014300*HSD
800	400	900	3,3	22	30	42,5	1,2	37,5	-	82,5	272,2	11	8,3	MHBA014330*J#
800	400	900	3,3	22	30	42,5	-	-	-	82,5	272,2	12,5	7,6	MHBA014330*SS
800	400	900	4	22	33,5	42,5	1,2	37,5	-	82,5	330	12	7,3	MHBA014400*J#
800	400	900	4	22	33,5	42,5	-	-	-	82,5	330	13,5	6,6	MHBA014400*SS
800	400	900	4,7	20	40	41,5	1,2	37,5	-	82,5	387,7	14	6,6	MHBA014470*J#
800	400	900	4,7	20	40	41,5	1,2	37,5	10,2	82,5	387,7	15,5	6	MHBA014470*JSD
800	400	900	5	28	37	42,5	1,2	37,5	-	82,5	412,5	14	6,5	MHBA014500*J#
800	400	900	5	28	37	42,5	1,2	37,5	10,2	82,5	412,5	15,5	5,9	MHBA014500*JSD
800	400	900	5	28	37	42,5	-	-	-	82,5	412,5	16,5	5,8	MHBA014500SS
800	400	900	6,3	24	44	41,5	1,2	37,5	-	82,5	519,7	14	5,6	MHBA014630*J#
800	400	900	6,3	24	44	41,5	1,2	37,5	10,2	82,5	519,7	17,5	5,1	MHBA014630*JSD
800	400	900	8	30	45	42,5	1,2	37,5	-	82,5	660	14	4,7	MHBA014800*J#
800	400	900	8	30	45	42,5	1,2	37,5	20,3	82,5	660	20	4,1	MHBA014800*JSD
800	400	900	8	30	45	42,5	-	-	-	82,5	660	22	4	MHBA014800*SS
800	400	900	10	35	50	42	1,2	37,5	-	82,5	825	14	4,2	MHBA015100*J#
800	400	900	10	35	50	42	1,2	37,5	20,3	82,5	825	21,5	3,6	MHBA015100*JSD
800	400	900	10	35	50	42	-	-	-	82,5	825	23,5	3,5	MHBA015100*SSA
800	400	900	10	30	45	57,5	1,2	52,5	-	55	550	14	5,9	MHBA015100*R#
800	400	900	10	30	45	57,5	1,2	52,5	10,2	55	550	19	5,3	MHBA015100*RSD
800	400	900	10	30	45	57,5	-	-	-	55	550	20,5	5,2	MHBA015100*SS
800	400	900	12,5	35	50	57,5	1,2	52,5	-	55	687,5	14	5,4	MHBA015125*R#
800	400	900	12,5	35	50	57,5	1,2	52,5	20,3	55	687,5	20,5	4,8	MHBA015125*RSD
800	400	900	12,5	35	50	57,5	-	-	-	55	687,5	22	4,7	MHBA015125*SS
800	400	900	15	35	50	57,5	1,2	52,5	-	55	825	14	5	MHBA015150*R#
800	400	900	15	35	50	57,5	1,2	52,5	20,3	55	825	22	4,4	MHBA015150*RSD
800	400	900	15	35	50	57,5	-	-	-	55	825	24	4,3	MHBA015150*SS
800	400	900	20	38	57,5	57,5	1,2	52,5	20,3	55	1100	24	3,8	MHBA015200*RSD
800	400	900	20	38	57,5	57,5	1,2	52,5	10,2	55	1100	25	3,7	MHBA015200*RST
800	400	900	20	38	57,5	57,5	-	-	-	55	1100	26	3,7	MHBA015200*SS

⁽¹⁾ Change the * symbol with the needed Cap. tol. code: J=±5%, K=±10%, the # symbol with S for 5mm, L for 25mm lead length and SS symbols with needed lugs style

⁽²⁾ Max. at 100kHz, +70°C for case operating T= +85°C (at Tamb >+70°C and Tcase >+85°C (voltage and Irms de-rating must be observed), C tol. ≤±10% (for wider C tolerance, 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

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