

MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor

MKP - Switching - High current - DC-Link - AC

2/4/6 x Wire or lug terminals - Small size



Main applications

DC-Link, switching capacitor for industrial and motor speed controls, SMPS, solar inverters, power converters and UPS, AC output filtering, suitable for AC applications

Main characteristics

High voltage and high capacitance in small size with long life expectancy, high current and high frequency operation capability

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), 2, 4 or 6x terminals or tinned 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 $\geq 1/8$ 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)

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

Max. permissible ambient temperature (operation at rated power, rated current and natural cooling)

+70°C (+85°C observing voltage and current de-rating); at Tamb. >+95°C superimposed Irms not admitted (Irms= 0 at Tamb.>+95°C)

Rated capacitance (Cr)

0,68µF to 100µF. 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) at T=+85°C, case (continuous operation)

575, 700, 800, 900, 1000, 1100, 1275Vdc

Temperature de-rated voltage and current

For operating temperature (case) > +85°C, Ur, Urms, Upkr and Upk must be decreased 1.5% for every °C exceeding +85°C. For current de-rating please also refer to the $\Delta T/T_{amb}$. data in function of the applied Irms listed in the article table

Permissible AC voltage (Urms) at T=+85°C, case (continuous operation)

240, 285, 315, 350, 400, 420, 440 Vac

Max. admissible voltage at T=+70°C, case (continuous operation)

Please refer to the article table

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

Up to case T=+85°C max.

660, 805, 920, 1035, 1150, 1265, 1465 Vdc

Up to case T=+70°C max.

720, 885, 1010, 1150, 1265, 1380, 1610 Vdc

Non Recurrent Surge Voltage (Upk):

Up to case T=+85°C max.

750, 910, 1040, 1170, 1300, 1430, 1655 Vdc

Up to case T=+70°C max.

815, 1000, 1140, 1300, 1430, 1560, 1820 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 Ipk= 1,5 x Ipeak

RMS Current (Irms)

Please refer to the article table; no superimposed Irms must be applied at Tamb.>+95°C (at Tamb.>+95°C Irms must be= 0)

Dissipation factor (DF), max. Tgδ x10⁻⁴, at 25±5°C, 1kHz

≤ 6 for Cr $\leq 4.0\mu\text{F}$

≤ 8 for $4.0\mu\text{F} < \text{Cr} \leq 12.0\mu\text{F}$ (P $\leq 37.5\text{mm}$)

≤ 11 for $12.0\mu\text{F} < \text{Cr} \leq 20.0\mu\text{F}$

≤ 14 for $20.0\mu\text{F} < \text{Cr} \leq 40.0\mu\text{F}$

≤ 18 for $40.0\mu\text{F} < \text{Cr} \leq 75.0\mu\text{F}$

≤ 22 for Cr > 75.0µF

Insulation resistance (IR)

$\geq 3000\text{s}$ (10000s typical) but need not exceed 3GΩ, between terminals, at 25±°C, after 1 minute of electrification at 100Vdc

Test voltage between terminals (Ut)

1,5xUr (DC) or 1,5xUrms (AC) applied for 10s, 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	Performance
Temperature= +40±2°C	Capacitance change $\leq \pm 3\%$
Relative humidity=93±2%	DF change $\leq 2 \times$ initial limit (1kHz)
Test duration= 56 days	IR $\geq 50\%$ of initial limit value

Typical capacitance change versus operating time (at Tcase=+70°C)

$\pm 5\%$ after 30'000 hours at Urms or after 100'000 hours at Ur

Life expectancy

$\geq 60'000$ hours at Urms or $\geq 200'000$ hours at Ur with T(case) $\leq +70^\circ\text{C}$: **expected life max. limit reference.**

$\geq 30'000$ hours at Urms or $\geq 100'000$ hours at Ur with T(case)= +85°C: **reference for expected life calculations at different operating conditions** (and expected life at max. admissible voltage at +70°C, case).

$\geq 10'000$ hours at de-rated Urms (Urms x 0.8) or $\geq 30'000$ hours at de-rated Ur (Ur x 0.8) at T(case)= +100°C; **NO superimposed Irms applied.**

Failure quota

300/10⁹ component hours

Resistance to soldering heat test

Test conditions:

Solder bath temperature= +260±5°C

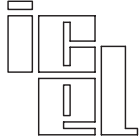
Dipping time (with heat screen)= 10±1s

Performance:

Capacitance change $\leq \pm 1\%$

DF change ≤ 0.0010 at 1kHz

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



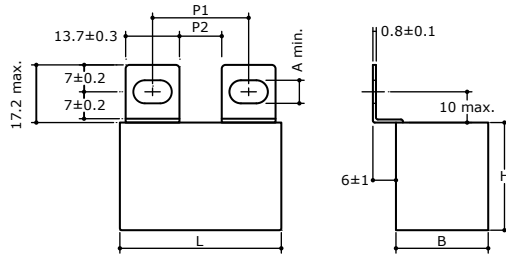
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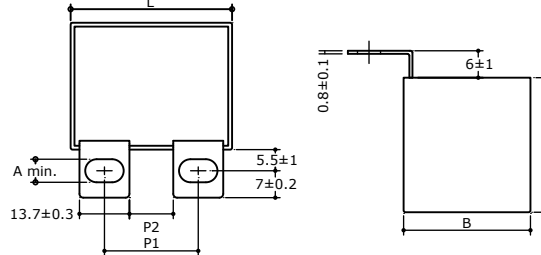


Dimensions in mm (drawings not in scale)

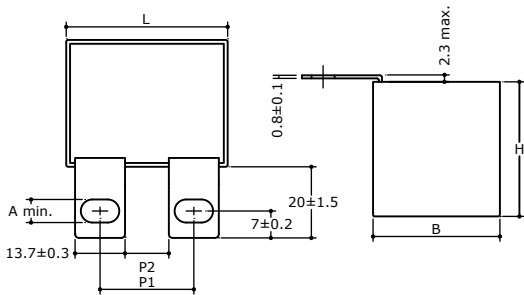
Style SP-SPM8 / SR-SRM8



Style VP-VPM8 / VR-VRM8



Style FP-FPM8 / FR-FRM8

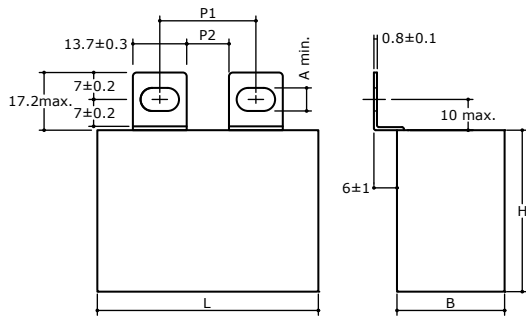


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SP-SPM8	42÷42,5	23+28(M6) 25+26(M8)	11min.
VP-VPM8	57,5	37+42(M6) 39+40(M8)	24min.
FP-FPM8			
SR-SRM8	42÷42,5	20+25(M6) 22+23(M8)	8min.
VR-VRM8	57,5	34+39(M6) 36+37(M8)	21min.
FR-FRM8			

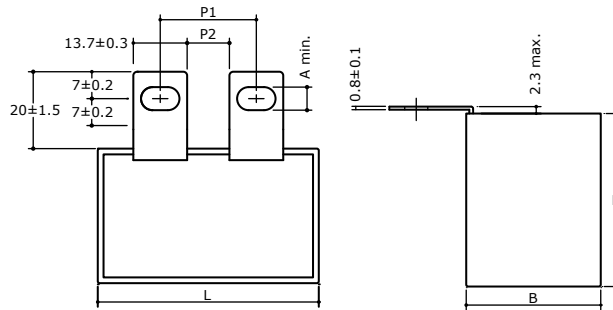
Fixing slot size (mm)**	
SP, VP, FP, SR, VR, FR	A=6min.
SPM8, VPM8, FPM8, SRM8, VRM8, FRM8	A=8min.

** 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)

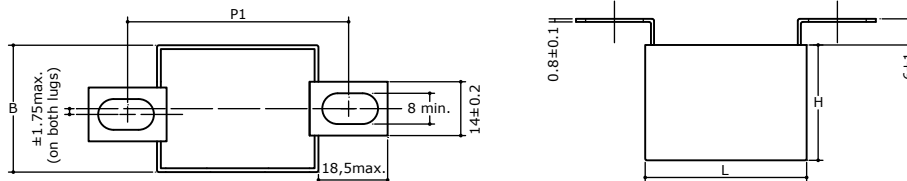


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SN-SNM8	42÷42,5	Not available	
VN-VNM8	57,5	23+28(M6) 25+26(M8)	11min.

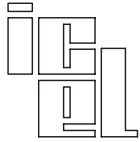
Fixing slot size (mm)**	
SN, VN	A= 6min.
SNM8, VNM8	A= 8min.

** 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)	-

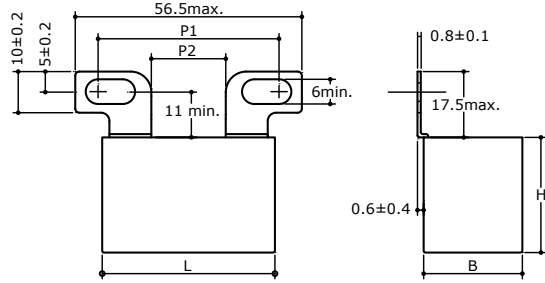


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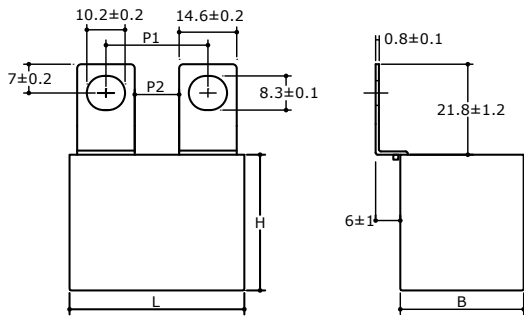
Dimensions in mm (drawings not in scale)

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



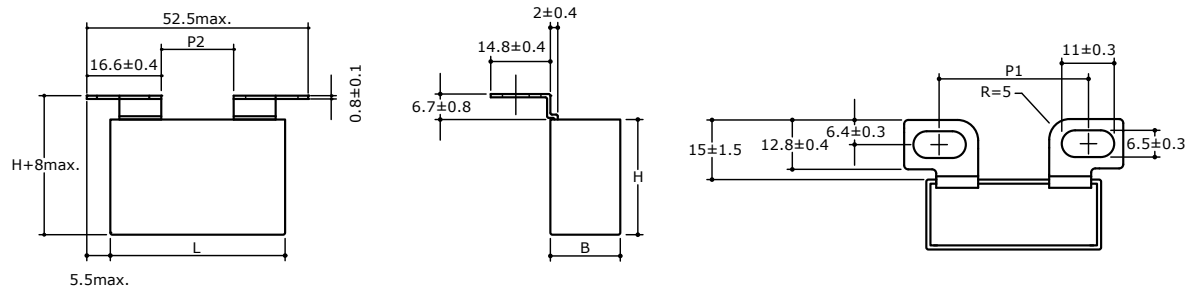
Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BP	42÷42.5	32÷45 (M6)	17min.
	57.5	Not available	

Style **SL** (M8 slots only)

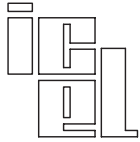


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SL	42÷42.5	22÷24 (M8)	8min.
	57.5	36÷38 (M8)	21min.

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



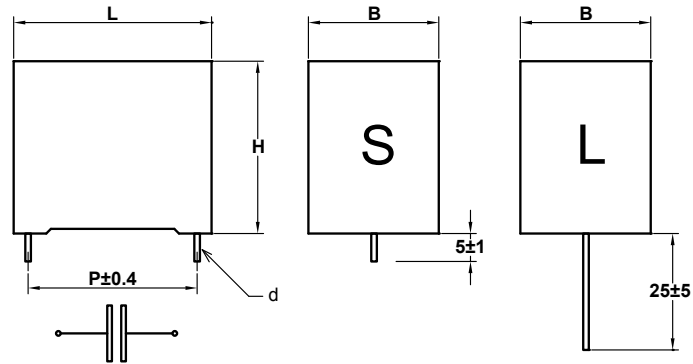
Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BN	42÷42.5	30÷37 (M6)	15min.
		Not available for B>22	
	57.5	Not available	



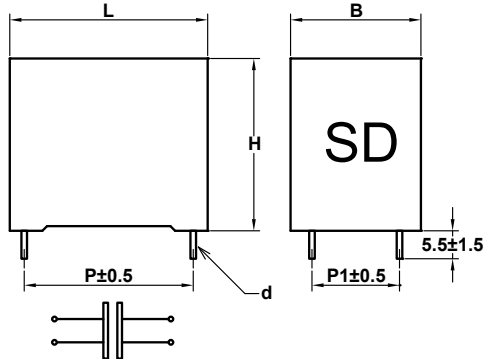
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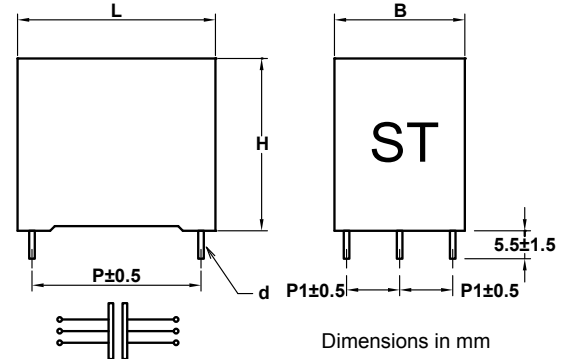
2 terminals execution



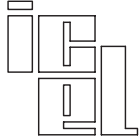
4 terminals execution



6 terminals execution



Dimensions in mm



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MHBS35...: Ur=575Vdc; Urms= 240Vac; Upkr= 660Vdc; Upk= 750Vdc
 Max. admissible voltage at +70°C (case)= 630Vdc, 250Vac, Upkr=720Vdc, Upk=815Vdc

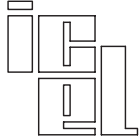
Cap. μF	Dimension in mm						du/dt V/μs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
3,3	11	20	32	0,8	27,5	-	27	89,1	4,5	3,5	2,5	15	MHBS354330*H#
4,7	13	22	32	1,0	27,5	-	27	126,9	5,5	4,5	3,5	11,6	MHBS354470*H#
5	13	22	32	1,0	27,5	-	27	135	6	4,5	3,5	11	MHBS354500*H#
6,8	15	24,5	32	1,0	27,5	-	27	102,6	7	5,5	4	9,4	MHBS354680*H#
7,5	14	28	32	1,2	27,5	-	27	202,5	8	6,5	4,5	8,6	MHBS354750*H#
10	18	33	32	1,2	27,5	-	27	270	10	8	5,5	7	MHBS355100*H#
12	18	33	32	1,2	27,5	-	27	324	11	8,5	6,5	6,1	MHBS355120*H#
12	18	33	32	1,2	27,5	5,1	27	324	12	9,5	7	5,4	MHBS355120*HSD
12	17	28	42,5	1,2	37,5	-	19	228	9,5	7,5	5,5	7,4	MHBS355120*J#
12	17	28	42,5	See lugs drawing			19	228	11	8,5	6,5	6,6	MHBS355120*\$\$
15	22	37	32	1,2	27,5	-	27	405	13,5	10,5	7,5	5,6	MHBS355150*H#
15	22	37	32	1,2	27,5	10,2	27	405	14,5	11,5	8,5	4,9	MHBS355150*HSD
15	22	30	42,5	1,2	37,5	-	19	285	11	8,5	6,5	6,4	MHBS355150*J#
15	22	30	42,5	See lugs drawing			19	285	13	10	7,5	5,6	MHBS355150*\$\$
20	20	40	41,5	1,2	37,5	-	19	380	13,5	11	8	5,6	MHBS355200*J#
20	20	40	41,5	1,2	37,5	10,2	19	380	15	12	8,5	5	MHBS355200*JSD
20	20	40	41,5	See lugs drawing ⁽⁴⁾			19	380	16,5	12,5	9,5	4,8	MHBS355200*\$\$
25	28	37	42,5	1,2	37,5	-	19	475	14	11,5	8,5	5	MHBS355250*J#
25	28	37	42,5	1,2	37,5	10,2	19	475	15,5	12,5	9	4,4	MHBS355250*JSD
25	28	37	42,5	See lugs drawing			19	475	17	13,5	10	4,2	MHBS355250*\$\$
30	28	37	42,5	1,2	37,5	-	19	570	14	12	9	4,6	MHBS355300*J#
30	28	37	42,5	1,2	37,5	10,2	19	570	16,5	13	9,5	4	MHBS355300*JSD
30	28	37	42,5	See lugs drawing			19	570	18,5	14,5	10,5	3,8	MHBS355300*\$\$
30	24	44	41,5	1,2	37,5	-	19	570	14	12	9	4,6	MHBS355300*J#A
30	24	44	41,5	1,2	37,5	10,2	19	570	17,5	14	10	4	MHBS355300*JSDA
35	30	45	42,5	1,2	37,5	-	19	665	14	14	11	4,3	MHBS355350*J#
35	30	45	42,5	1,2	37,5	20,3	19	665	19	15,5	11	3,7	MHBS355350*JSD
35	30	45	42,5	See lugs drawing			19	665	21	16,5	12,5	3,5	MHBS355350*\$\$
40	30	45	42,5	1,2	37,5	-	19	760	14	14	11	4	MHBS355400*J#
40	30	45	42,5	1,2	37,5	20,3	19	760	20	16	12	3,4	MHBS355400*JSD
40	30	45	42,5	See lugs drawing			19	760	22	17,5	13	3,2	MHBS355400*\$\$
50	30	45	57,5	1,2	52,5	-	12,5	625	14	14	10	4,6	MHBS355500*R#
50	30	45	57,5	1,2	52,5	20,3	12,5	625	19	15,5	11	4	MHBS355500*RSD
50	30	45	57,5	See lugs drawing			12,5	625	21,5	17,5	12,5	3,8	MHBS355500*\$\$
60	30	45	57,5	1,2	52,5	-	12,5	750	14	14	10,5	4,2	MHBS355600*R#
60	30	45	57,5	1,2	52,5	20,3	12,5	750	20,5	16,5	12	3,6	MHBS355600*RSD
60	35	50	57,5	See lugs drawing			12,5	750	23	18,5	13,5	3,4	MHBS355600*\$\$
75	35	50	57,5	1,2	52,5	-	12,5	937,5	14	14	12	3,9	MHBS355750*R#
75	35	50	57,5	1,2	52,5	20,3	12,5	937,5	23	18,5	13,5	3,3	MHBS355750*RSD
75	35	50	57,5	See lugs drawing			12,5	937,5	25,5	20,5	15	3,1	MHBS355750*\$\$
90	38	57,5	57,5	1,2	52,5	20,3	12,5	1125	25	20	15	3,1	MHBS355900*RSD
90	38	57,5	57,5	1,2	52,5	10,2	12,5	1125	26	21	15,5	2,9	MHBS355900*RST
90	38	57,5	57,5	See lugs drawing			12,5	1125	27,5	22	16,5	2,9	MHBS355900*\$\$
100	38	57,5	57,5	1,2	52,5	20,3	12,5	1250	26	20,5	15,5	3	MHBS356100*RSD
100	38	57,5	57,5	1,2	52,5	10,2	12,5	1250	27	21,5	16	2,8	MHBS356100*RST

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; I rms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. I rms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; I rms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "\$\$" characters with the desired lug style code

⁽⁴⁾ Upon request only



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MHBS40...: Ur=700Vdc; Urms= 285Vac; Upkr= 805Vdc; Upk= 910Vdc
 Max. admissible voltage at +70°C (case)= 770Vdc, 300Vac, Upkr=885Vdc, Upk=1000Vdc

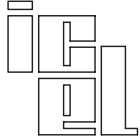
Cap. µF	Dimension in mm						du/dt V/µs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
2,5	11	20	32	0,8	27,5	-	31	77,5	4,5	3,5	3	15,8	MHBS404250*H#
3,3	13	22	32	1,0	27,5	-	31	102,3	5,5	4,5	3,5	13,3	MHBS404330*H#
4,7	15	24,5	32	1,0	27,5	-	31	145,7	6,5	5,5	4	10,5	MHBS404470*H#
5	15	24,5	32	1,2	27,5	-	31	155	7	5,5	4	9,7	MHBS404500*H#
7,5	14	25	42,5	1,2	37,5	-	21	157,5	7,5	6	4,5	9,2	MHBS404750*J#
10	18	33	32	1,2	27,5	-	31	310	11	8,5	6	6,7	MHBS405100*H#
10	18	33	32	1,2	27,5	5,1	31	310	12	9,5	6,5	6	MHBS405100*HSD
12	22	37	32	1,2	27,5	-	31	372	13	10,5	7,5	5,8	MHBS405120*H#
12	22	37	32	1,2	27,5	10,2	31	372	14,5	11,5	8,5	5,2	MHBS405120*HSD
12	22	30	42,5	1,2	37,5	-	21	252	11	8,5	6,5	6,4	MHBS405120*J#
12	22	30	42,5	See lugs drawing			21	252	13	10	7,5	5,6	MHBS405120*J\$
15	22	33,5	42,5	1,2	37,5	-	21	315	12	9,5	7	5,5	MHBS405150*J#
15	22	33,5	42,5	1,2	37,5	5,1	21	315	13,5	10,5	7,5	4,9	MHBS405150*JSD
15	22	33,5	42,5	See lugs drawing			21	315	14,5	11,5	8,5	4,7	MHBS405150*J\$
20	24	44	41,5	See lugs drawing ⁽⁴⁾			21	420	18,5	14,5	10,5	4,1	MHBS405200*J\$
20	28	37	42,5	1,2	37,5	-	21	420	14	11,5	8,5	4,9	MHBS405200*J#
20	28	37	42,5	1,2	37,5	10,2	21	420	16	12,5	9	4,3	MHBS405200*JSD
20	28	37	42,5	See lugs drawing			21	420	17,5	14	10	4,1	MHBS405200*J\$A
22	24	44	41,5	1,2	37,5	-	21	462	14	13	9,5	4,6	MHBS405220*J#
22	24	44	41,5	1,2	37,5	10,2	21	462	17,5	14	10,5	4	MHBS405220*JSD
22	24	44	41,5	See lugs drawing			21	462	19,5	15,5	11,5	3,8	MHBS405220*J\$
22	28	37	42,5	1,2	37,5	-	21	462	14	12	9	4,6	MHBS405220*J\$A
22	28	37	42,5	1,2	37,5	10,2	21	462	16,5	13,5	10	4	MHBS405220*JSDA
22	28	37	42,5	See lugs drawing			21	462	18,5	14,5	10,5	3,8	MHBS405220*J\$A
25	24	44	41,5	1,2	37,5	-	21	525	14	13,5	10	4,3	MHBS405250*J#
25	24	44	41,5	1,2	37,5	10,2	21	525	19	15	11	3,7	MHBS405250*JSD
25	24	44	41,5	See lugs drawing ⁽⁴⁾			21	525	21	16,5	12	3,5	MHBS405250*J\$
30	30	45	42,5	1,2	37,5	-	21	630	14	14	11	4	MHBS405300*J#
30	30	45	42,5	1,2	37,5	20,3	21	630	20,5	16	12	3,4	MHBS405300*JSD
30	30	45	42,5	See lugs drawing			21	630	22,5	17,5	13	3,2	MHBS405300*J\$
40	30	45	57,5	1,2	52,5	-	14,5	580	14	14	10,5	4,4	MHBS405400*R#
40	30	45	57,5	1,2	52,5	20,3	14,5	580	20	16	11,5	3,8	MHBS405400*RSD
40	30	45	57,5	See lugs drawing			14,5	580	22	17,5	12,5	3,6	MHBS405400*\$
45	30	45	57,5	1,2	52,5	-	14,5	652,5	14	14	11	4,2	MHBS405450*R#
45	30	45	57,5	1,2	52,5	20,3	14,5	652,5	21	16,5	12	3,6	MHBS405450*RSD
45	30	45	57,5	See lugs drawing			14,5	652,5	23	18	13	3,4	MHBS405450*\$
50	35	50	57,5	1,2	52,5	-	14,5	725	14	14	12	4	MHBS405500*R#
50	35	50	57,5	1,2	52,5	20,3	14,5	725	22,5	18	13	3,4	MHBS405500*RSD
50	35	50	57,5	See lugs drawing			14,5	725	24,5	19,5	14,5	3,2	MHBS405500*\$
55	35	50	57,5	1,2	52,5	-	14,5	797,5	14	14	12,5	3,9	MHBS405550*R#
55	35	50	57,5	1,2	52,5	20,3	14,5	797,5	23,5	19	13,5	3,3	MHBS405550*RSD
55	35	50	57,5	See lugs drawing			14,5	797,5	25,5	20,5	15	3,1	MHBS405550*\$
60	35	50	57,5	1,2	52,5	-	14,5	870	14	14	13	3,7	MHBS405600*R#
60	35	50	57,5	1,2	52,5	20,3	14,5	870	24,5	19,5	14	3,1	MHBS405600*RSD
60	35	50	57,5	See lugs drawing			14,5	870	26,5	21	15,5	2,9	MHBS405600*\$
75	38	57,5	57,5	1,2	52,5	20,3	14,5	1087,5	26	20,5	15,5	2,9	MHBS405750*RSD
75	38	57,5	57,5	1,2	52,5	10,2	14,5	1087,5	27	21,5	16	2,7	MHBS405750*RST
75	38	57,5	57,5	See lugs drawing			14,5	1087,5	28,5	23	17	2,7	MHBS405750*\$
80	38	57,5	57,5	1,2	52,5	20,3	14,5	1160	26,5	21	16	2,8	MHBS405800*RSD
80	38	57,5	57,5	1,2	52,5	10,2	14,5	1160	27,5	22	16,5	2,6	MHBS405800*RST

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "\$\$" characters with the desired lug style code

⁽⁴⁾ Upon request only



MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor
 MKP - Switching - High current - DC-Link - AC
 2/4/6 x Wire or lug terminals - Small size



MHBS45...: $U_r=800V_{dc}$; $U_{rms}=315V_{ac}$; $U_{pkr}=920V_{dc}$; $U_{pk}=1040V_{dc}$
 Max. admissible voltage at +70°C (case)= 880Vdc, 330Vac, $U_{pkr}=1010V_{dc}$, $U_{pk}=1140V_{dc}$

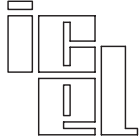
Cap. μF	Dimension in mm						du/dt V/ μs	lpeak (A)	Irms max. (A) for $\Delta t/T_a$ ⁽¹⁾			ESR ⁽²⁾ m Ω	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
2,2	11	20	32	0,8	27,5	-	36	79,2	4,5	4	3	15,3	MHBS454220*H#
3	13	22	32	1,0	27,5	-	36	108	5,5	4,5	3,5	12,4	MHBS454300*H#
4	15	24,5	32	1,0	27,5	-	36	144	6,5	5,5	4	10,8	MHBS454400*H#
5	14	28	32	1,2	27,5	-	36	180	8	6,5	4,5	9,4	MHBS454500*H#
5	14	25	42,5	1,2	37,5	-	24	120	7,5	6	4	10,3	MHBS454500*J#
6,8	18	33	32	1,2	27,5	-	36	244,8	9,5	7,5	5,5	7,6	MHBS454680*H#
7,5	18	33	32	1,2	27,5	-	36	270	10,5	8,5	6	7,1	MHBS454750*H#
7,5	18	33	32	1,2	27,5	5,1	36	270	11,5	9	6,5	6,5	MHBS454750*HSD
7,5	17	28	42,5	1,2	37,5	-	24	180	9	7	5	8,3	MHBS454750*J#
7,5	17	28	42,5	See lugs drawing		-	24	180	10,5	8,5	6	7,5	MHBS454750*SS
10	22	37	32	1,2	27,5	-	36	360	13	10,5	7,5	5,9	MHBS455100*H#
10	22	37	32	1,2	27,5	10,2	24	360	14,5	11,5	8,5	5,3	MHBS455100*HSD
10	22	30	42,5	1,2	37,5	-	24	240	10,5	8,5	6	7	MHBS455100*J#
10	22	30	42,5	1,2	37,5	5,1	24	240	11,5	9	6,5	6,4	MHBS455100*JSD
10	22	30	42,5	See lugs drawing		-	24	240	12,5	10	7,5	6,2	MHBS455100*SS
12	22	33,5	42,5	1,2	37,5	-	24	288	11,5	9	7	6,4	MHBS455120*J#
12	22	33,5	42,5	1,2	37,5	5,1	24	288	12,5	10	7,5	5,8	MHBS455120*JSD
12	22	33,5	42,5	See lugs drawing		-	24	288	13,5	11	8	5,6	MHBS455120*SS
15	20	40	41,5	1,2	37,5	-	24	360	13,5	11	8	5,6	MHBS455150*J#
15	20	40	41,5	1,2	37,5	10,2	24	360	15	12	8,5	5	MHBS455150*JSD
20	24	44	41,5	1,2	37,5	-	24	480	14	13	9,5	4,8	MHBS455200*J#
20	24	44	41,5	1,2	37,5	10,2	24	480	18	14,5	10,5	4,2	MHBS455200*JSD
22	30	45	42,5	1,2	37,5	-	24	528	14	13,5	10	4,6	MHBS455220*J#
22	30	45	42,5	1,2	37,5	20,3	24	528	18,5	14,5	10,5	4	MHBS455220*JSD
22	30	45	42,5	See lugs drawing		-	24	528	20,5	16	12	3,8	MHBS455220*SS
25	30	45	42,5	1,2	37,5	-	24	600	14	14	10,5	4,3	MHBS455250*J#
25	30	45	42,5	1,2	37,5	20,3	24	600	19,5	15,5	11,5	3,7	MHBS455250*JSD
25	30	45	42,5	See lugs drawing		-	24	600	22	17	12,5	3,5	MHBS455250*SS
30	30	45	57,5	1,2	52,5	-	16,5	495	14	14	10	4,9	MHBS455300*R#
30	30	45	57,5	1,2	52,5	20,3	16,5	495	19	15,5	11	4,3	MHBS455300*RSD
30	30	45	57,5	See lugs drawing		-	16,5	495	21	16,5	12	4,1	MHBS455300*SS
35	30	45	57,5	1,2	52,5	-	16,5	577,5	14	14	11	4,5	MHBS455350*R#
35	30	45	57,5	1,2	52,5	20,3	16,5	577,5	20	16	11,5	3,9	MHBS455350*RSD
35	30	45	57,5	See lugs drawing		-	16,5	577,5	22	17,5	13	3,7	MHBS455350*SS
40	35	50	57,5	1,2	52,5	-	16,5	660	14	14	11,5	4,2	MHBS455400*R#
40	35	50	57,5	1,2	52,5	20,3	16,5	660	21,5	17,5	12,5	3,6	MHBS455400*RSD
40	35	50	57,5	See lugs drawing		-	16,5	660	23,5	19	14	3,4	MHBS455400*SS
45	35	50	57,5	1,2	52,5	-	16,5	742,5	14	14	12	4	MHBS455450*R#
45	35	50	57,5	1,2	52,5	20,3	16,5	742,5	23	18,5	13,5	3,4	MHBS455450*RSD
45	35	50	57,5	See lugs drawing		-	16,5	742,5	25,5	20	15	3,2	MHBS455450*SS
47	35	50	57,5	1,2	52,5	-	16,5	775,5	14	14	12,5	3,9	MHBS455470*R#
47	35	50	57,5	1,2	52,5	20,3	16,5	775,5	23,5	19	13,5	3,3	MHBS455470*RSD
60	38	57,5	57,5	1,2	52,5	20,3	16,5	990	25,5	20,5	15,5	3	MHBS455600*RSD
60	38	57,5	57,5	1,2	52,5	10,2	16,5	990	26,5	21,5	15,5	2,8	MHBS455600*RST
60	38	57,5	57,5	See lugs drawing		-	16,5	990	28,5	22,5	16,5	2,8	MHBS455600*SS
65	38	57,5	57,5	1,2	52,5	20,3	16,5	1072,5	26,5	21	15,5	2,9	MHBS455650*RSD
65	38	57,5	57,5	1,2	52,5	10,2	16,5	1072,5	27,5	22	16	2,7	MHBS455650*RST

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for $\Delta t/T_a$ ($T_a=T$ ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "SS" characters with the desired lug style code

⁽⁴⁾ Upon request only



MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor
 MKP - Switching - High current - DC-Link - AC
 2/4/6 x Wire or lug terminals - Small size



MHBS50...: Ur=900Vdc; Urms= 350Vac; Upkr= 1035Vdc; Upk= 1170VdcMax.
 Max. voltage at +70°C (case)= 1000Vdc, 370Vac, 330Vac, Upkr=1150Vdc, Upk=1300Vdc

Cap. μF	Dimension in mm						du/dt V/μs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
2,2	13	22	32	1,0	27,5	-	41,5	91,3	5	4	3	14,7	MHBS504220*H#
2,5	13	22	32	1,0	27,5	-	41,5	103,7	5,5	4,5	3	13,5	MHBS504250*H#
3	15	24,5	32	1,0	27,5	-	41,5	124,5	6,5	5	3,5	11,9	MHBS504300*H#
3,3	14	28	32	1,2	27,5	-	41,5	137	7	5,5	4	11	MHBS504330*H#
4,7	18	33	32	1,2	27,5	-	41,5	195	8,5	6,5	5	9	MHBS504470*H#
4,7	14	25	42,5	1,2	37,5	-	28	131,6	7	5,5	4	10,6	MHBS504470*J#
6	18	33	32	1,2	27,5	-	41,5	249	10	8	6	7,6	MHBS504600*H#
6	18	33	32	1,2	27,5	5,1	41,5	249	11	8,5	6	7	MHBS504600*HSD
6	17	28	42,5	1,2	37,5	-	28	168	8,5	6,5	5	9,2	MHBS504600*J#
6	17	28	42,5	See lugs drawing			28	168	10	8	6	8,4	MHBS504600*J#
7,5	22	37	32	1,2	27,5	-	41,5	311,2	12,5	9,5	7	6,9	MHBS504750*H#
7,5	22	37	32	1,2	27,5	10,2	41,5	311,2	13,5	10,5	8	6,3	MHBS504750*HSD
7,5	22	30	42,5	1,2	37,5	-	28	210	10	8	5,5	8	MHBS504750*J#
7,5	22	30	42,5	See lugs drawing			28	210	12	9,5	7	7,2	MHBS504750*J#
10	22	33,5	42,5	1,2	37,5	-	28	280	11,5	9	6,5	6,8	MHBS505100*J#
10	22	33,5	42,5	1,2	37,5	5,1	28	280	12,5	9,5	7	6,2	MHBS505100*JSD
10	22	33,5	42,5	See lugs drawing			28	280	13,5	10,5	8	6	MHBS505100*JSD
12	20	40	41,5	1,2	37,5	-	28	336	13,5	11	7,5	6,3	MHBS505120*J#
12	20	40	41,5	1,2	37,5	10,2	28	336	14,5	11,5	8	5,7	MHBS505120*JSD
12	20	40	41,5	See lugs drawing ⁽⁴⁾			28	336	15,5	12,5	9	5,5	MHBS505120*JSD
15	24	44	41,5	1,2	37,5	-	28	420	14	12,5	9,5	5,3	MHBS505150*J#
15	24	44	41,5	1,2	37,5	10,2	28	420	17	14	10,5	4,7	MHBS505150*JSD
15	24	44	41,5	See lugs drawing ⁽⁴⁾			28	420	18,5	15	11,5	4,5	MHBS505150*JSD
15	28	37	42,5	1,2	37,5	-	28	420	14	11,5	8	5,3	MHBS505150*J#A
15	28	37	42,5	1,2	37,5	10,2	28	420	15,5	12,5	9	4,7	MHBS505150*JSDA
15	28	37	42,5	See lugs drawing			28	420	17,5	14	10,5	4,5	MHBS505150*JSDA
20	30	45	42,5	1,2	37,5	-	28	560	14	14	10,5	4,5	MHBS505200*J#
20	30	45	42,5	1,2	37,5	20,3	28	560	19	15	11	3,9	MHBS505200*JSD
20	30	45	42,5	See lugs drawing			28	560	21	16,5	12	3,7	MHBS505200*JSD
25	30	45	57,5	1,2	52,5	-	18,5	462,5	14	13	10	5,3	MHBS505250*R#
25	30	45	57,5	1,2	52,5	20,3	18,5	462,5	18	15	11	4,7	MHBS505250*RSD
25	30	45	57,5	See lugs drawing			18,5	462,5	19,5	16	11,5	4,5	MHBS505250*RSD
35	35	50	57,5	1,2	52,5	-	18,5	647,5	14	14	12	4,2	MHBS505350*R#
35	35	50	57,5	1,2	52,5	20,3	18,5	647,5	22	17,5	13	3,6	MHBS505350*RSD
35	35	50	57,5	See lugs drawing			18,5	647,5	24	19	14	3,4	MHBS505350*RSD
40 ⁽⁵⁾	35	50	57,5	1,2	52,5	-	18,5	740	14	14	13	3,9	MHBS505400*R# ⁽⁵⁾
40 ⁽⁵⁾	35	50	57,5	1,2	52,5	20,3	18,5	740	23,5	19	13,5	3,3	MHBS505400*RSD ⁽⁵⁾
47	38	57,5	57,5	1,2	52,5	20,3	18,5	869,5	25,5	20,5	15	3	MHBS505470*RSD
47	38	57,5	57,5	1,2	52,5	10,2	18,5	869,5	26,5	21,5	15,5	2,8	MHBS505470*RST
47	38	57,5	57,5	See lugs drawing			18,5	869,5	28,5	23	16,5	2,8	MHBS505470*RST
50	38	57,5	57,5	1,2	52,5	20,3	18,5	925	26	21	15	3	MHBS505500*RSD
50	38	57,5	57,5	1,2	52,5	10,2	18,5	925	27	22	16	2,8	MHBS505500*RST

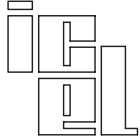
⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "J#" characters with the desired lug style code

⁽⁴⁾ Upon request only

⁽⁵⁾ **Not available with tolerance on Capacitance < ±10%**



MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor
 MKP - Switching - High current - DC-Link - AC
 2/4/6 x Wire or lug terminals - Small size



MHBS55...: =1000Vdc; Urms= 400Vac; Upkr= 1150Vdc; Upk= 1300Vdc
 Max. admissible voltage at +70°C (case)= 1100Vdc, 420Vac, Upkr=1265Vdc, Upk=1430Vdc

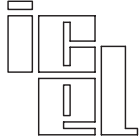
Cap. μF	Dimension in mm						du/dt V/μs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
1,5	11	20	32	0,8	27,5	-	47	70,5	4,5	3,5	2,5	17,8	MHBS554150*H#
2,0	13	22	32	1,0	27,5	-	47	96	5,5	4	3	14,5	MHBS554200*H#
2,5	15	24,5	32	1,0	27,5	-	47	117,5	6	5	3,5	12,8	MHBS554250*H#
3	14	28	32	1,2	27,5	-	47	141	7,5	6	4	11	MHBS554300*H#
4	14	25	42,5	1,2	37,5	-	31	124	7	5,5	4	11	MHBS554400*J#
4,7	18	33	32	1,2	27,5	-	47	220,9	9,5	7,5	5,5	8,3	MHBS554470*H#
4,7	18	33	32	1,2	27,5	10,2	47	220,9	10,5	8,5	6	7,7	MHBS554470*HSD
4,7	17	28	42,5	1,2	37,5	-	31	145,7	8,5	6,5	4,5	9,6	MHBS554470*J#
4,7	17	28	42,5	See lugs drawing			31	145,7	9,5	7,5	5,5	8,7	MHBS554470*J\$
5	18	33	32	1,2	27,5	-	47	235	10	7,5	5,5	8	MHBS554500*H#
5	18	33	32	1,2	27,5	10,2	47	235	11	9	6,5	7,4	MHBS554500*HSD
5	17	28	42,5	1,2	37,5	-	31	155	9,5	7,5	5,5	9,3	MHBS554500*J#
5	17	28	42,5	See lugs drawing			31	155	10,5	8,5	6	8,5	MHBS554500*J\$
6,8	22	37	32	1,2	27,5	-	47	319,6	12	10	7,5	6,9	MHBS554680*H#
6,8	22	37	32	1,2	27,5	10,2	47	319,6	13,5	11	8	6,3	MHBS554680*HSD
6,8	22	30	42,5	1,2	37,5	-	31	210,8	10	8	6	7,9	MHBS554680*J#
6,8	22	30	42,5	See lugs drawing			31	210,8	11,5	9	7	7,1	MHBS554680*J\$
7,5	22	33,5	42,5	1,2	37,5	-	31	232,5	11	8,5	6,5	7,4	MHBS554750*J#
7,5	22	33,5	42,5	1,2	37,5	5,1	31	232,5	12	9,5	7	6,8	MHBS554750*JSD
7,5	22	33,5	42,5	See lugs drawing			31	232,5	13	10,5	7,5	6,6	MHBS554750*J\$
9	20	40	41,5	1,2	37,5	-	31	279	13	10	7,5	6,6	MHBS554900*J#
9	20	40	41,5	1,2	37,5	10,2	31	279	14,5	11	8	6	MHBS554900*JSD
9	20	40	41,5	See lugs drawing ⁽⁴⁾			31	279	15,5	12	8,5	5,8	MHBS554900*J\$
10	20	40	41,5	1,2	37,5	-	31	310	13,5	10,5	8	6,3	MHBS555100*J#
10	20	40	41,5	1,2	37,5	10,2	31	310	15	11,5	8,5	5,7	MHBS555100*JSD
12	24	44	41,5	1,2	37,5	-	31	372	14	12	9	5,7	MHBS555120*J#
12	24	44	41,5	1,2	37,5	10,2	31	372	16,5	13,5	9,5	5,1	MHBS555120*JSD
12	24	44	41,5	See lugs drawing ⁽⁴⁾			31	372	18	14	10,5	4,9	MHBS555120*J\$
12	28	37	42,5	1,2	37,5	-	31	372	14	11,5	8	5,7	MHBS555120*J#A
12	28	37	42,5	1,2	37,5	10,2	31	372	15	12	9	5,1	MHBS555120*JSDA
12	28	37	42,5	See lugs drawing			31	372	16,5	13,5	10	4,9	MHBS555120*J\$
15	30	45	42,5	1,2	37,5	-	31	465	14	13,5	10	5	MHBS555150*J#
15	30	45	42,5	1,2	37,5	20,3	31	465	18	14,5	11	4,4	MHBS555150*JSD
15	30	45	42,5	See lugs drawing			31	465	20	16	12	4,2	MHBS555150*J\$
22	30	45	57,5	1,2	52,5	-	21	462	14	13,5	10	5,1	MHBS555220*R#
22	30	45	57,5	1,2	52,5	20,3	21	462	18,5	15	11	4,5	MHBS555220*RSD
22	30	45	57,5	See lugs drawing			21	462	20,5	16,5	12	4,3	MHBS555220*J\$
30	35	50	57,5	1,2	52,5	-	21	630	14	14	11,5	4,3	MHBS555300*R#
30	35	50	57,5	1,2	52,5	20,3	21	630	22	17,5	12,5	3,8	MHBS555300*RSD
30	35	50	57,5	See lugs drawing			21	630	24	19	13,5	3,6	MHBS555300*J\$
33	35	50	57,5	1,2	52,5	-	21	693	14	14	12	4,1	MHBS555330*R#
33	35	50	57,5	1,2	52,5	20,3	21	693	23	18,5	13	3,5	MHBS555330*RSD
40	38	57,5	57,5	1,2	52,5	20,3	21	840	25	20	14,5	3,2	MHBS555400*RSD
40	38	57,5	57,5	1,2	52,5	10,2	21	840	26	21	15	3	MHBS555400*RST
40	38	57,5	57,5	See lugs drawing			21	840	27,5	22	16,5	3	MHBS555400*J\$

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "J\$" characters with the desired lug style code

⁽⁴⁾ Upon request only



MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size



MHBS60...: Ur=1100Vdc; Urms= 420Vac; Upkr= 1265Vdc; Upk= 1430Vdc
Max. admissible voltage at +70°C= 1200Vdc, 440Vac, Upkr=1380Vdc, Upk=1560Vdc

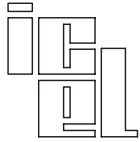
Cap. μF	Dimension in mm						du/dt V/μs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
1,2	11	20	32	0,8	27,5	-	50	60	4,5	3,5	2,5	18	MHBS604120*H#
1,5	13	22	32	1,0	27,5	-	50	75	5	4	3	15,5	MHBS604150*H#
2	15	24,5	32	1,0	27,5	-	50	100	6	5	3,5	12,9	MHBS604200*H#
2,2	15	24,5	32	1,0	27,5	-	50	110	6	5	3,5	12,2	MHBS604220*H#
2,5	14	28	32	1,2	27,5	-	50	125	7	5,5	4	10,8	MHBS604250*H#
3	14	25	42	1,2	37,5	-	34	102	6,5	5	4	11,8	MHBS604300*J#
3,3	18	33	32	1,2	27,5	-	50	165	9	7	5	9,2	MHBS604330*H#
4	18	33	32	1,2	27,5	-	50	200	9,5	7,5	5,5	8,1	MHBS604400*H#
4	18	33	32	1,2	27,5	5,1	50	200	10,5	8,5	6	7,5	MHBS604400*HSD
4	17	28	42,5	1,2	37,5	-	34	136	8,5	6,5	4,5	9,9	MHBS604400*J#
4	17	28	42,5	See lugs drawing			34	136	9,5	7,5	5,5	9,1	MHBS604400*\$\$
4,7	22	37	32	1,2	27,5	-	50	235	11,5	9	7	7,4	MHBS604470*H#
4,7	22	37	32	1,2	27,5	10,2	50	235	12,5	10	7,5	6,8	MHBS604470*HSD
4,7	22	30	42,5	1,2	37,5	-	34	159,8	10	7,5	5,5	8,3	MHBS604470*J#
4,7	22	30	42,5	See lugs drawing			34	159,8	11,5	8,5	6,5	7,5	MHBS604470*\$\$
5	22	37	32	1,2	27,5	-	50	250	12	9,5	7	7,2	MHBS604500*H#
5	22	37	32	1,2	27,5	10,2	50	250	13	10,5	7,5	6,6	MHBS604500*HSD
5	22	30	42,5	1,2	37,5	-	34	170	10,5	8	5,5	8,1	MHBS604470*J#
5	22	30	42,5	See lugs drawing			34	170	12	9	6,5	7,3	MHBS604470*\$\$
6,8	22	33,5	42,5	1,2	37,5	-	34	231,2	11	9	6,5	6,9	MHBS604680*J#
6,8	22	33,5	42,5	1,2	37,5	5,1	34	231,2	12	9,5	7	6,3	MHBS604680*JSD
6,8	22	33,5	42,5	See lugs drawing			34	231,2	13	10,5	7,5	6,1	MHBS604680*\$\$
7,5	22	33,5	42,5	1,2	37,5	-	34	255	11,5	9,5	6,5	6,6	MHBS604750*J#
7,5	22	33,5	42,5	1,2	37,5	10,2	34	255	12,5	10,5	7,5	6	MHBS604750*JSD
7,5	20	40	41,5	See lugs drawing ⁽⁴⁾			34	255	14	11,5	8,5	5,8	MHBS604750*\$\$
10	24	44	41,5	1,2	37,5	-	34	340	14	12,5	9	5,5	MHBS605100*J#
10	24	44	41,5	1,2	37,5	10,2	34	340	17	13,5	10	4,9	MHBS605100*JSD
10	24	44	41,5	See lugs drawing ⁽⁴⁾			34	340	18,5	14,5	10,5	4,7	MHBS605100*\$\$
10	28	37	42,5	1,2	37,5	-	34	340	14	11	8	5,5	MHBS605100*J#A
10	28	37	42,5	1,2	37,5	10,2	34	340	15,5	12	9	4,9	MHBS605100*JSDA
10	28	37	42,5	See lugs drawing			34	340	17	13	9,5	4,7	MHBS605100*\$\$A
12	30	45	42,5	1,2	37,5	-	34	408	14	13,5	10	5	MHBS605120*J#
12	30	45	42,5	1,2	37,5	20,3	34	408	18,5	14,5	10,5	4,4	MHBS605120*JSD
12	30	45	42,5	See lugs drawing			34	408	20	15,5	11,5	4,2	MHBS605120*\$\$
20	30	45	57,5	1,2	52,5	-	23	460	14	13,5	10	4,8	MHBS065200*R#
20	30	45	57,5	1,2	52,5	20,3	23	460	19	15	11	4,2	MHBS065200*RSD
20	30	45	57,5	See lugs drawing			23	460	21	17	12,5	4	MHBS605200*\$\$
22	35	50	57,5	1,2	52,5	-	23	506	14	14	11	4,6	MHBS605220*R#
22	35	50	57,5	1,2	52,5	20,3	23	506	21	17	12	4	MHBS605220*RSD
22	35	50	57,5	See lugs drawing			23	506	23	18,5	13	3,8	MHBS605220*\$\$
25	35	50	57,5	1,2	52,5	-	23	575	14	14	12	4,4	MHBS605250*R#
25	35	50	57,5	1,2	52,5	20,3	23	575	22	17,5	12,5	3,8	MHBS605250*RSD
25	35	50	57,5	See lugs drawing			23	575	24	19,5	14	3,6	MHBS605250*\$\$
33	38	57,5	57,5	1,2	52,5	20,3	23	759	24,5	19,5	14,5	3,3	MHBS605330*RSD
33	38	57,5	57,5	1,2	52,5	10,2	23	759	25,5	20,5	15	3,1	MHBS605330*RST
33	38	57,5	57,5	See lugs drawing			23	759	27	21,5	16	3,1	MHBS605330*\$\$
35	38	57,5	57,5	1,2	52,5	20,3	23	805	25	20	14,5	3,2	MHBS605350*RSD
35	38	57,5	57,5	1,2	52,5	10,2	23	805	26	20,5	15	3	MHBS605350*RST

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "\$\$" characters with the desired lug style code

⁽⁴⁾ Upon request only



MHBS - (Expanded range; new lugs)

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size



MHBS70...: Ur=1275Vdc; Urms= 440Vac; Upkr= 1465Vdc; Upk= 1655Vdc
Max. admissible voltage at +70°C (case)= 1400Vdc, 460Vac, Upkr=1610Vdc, Upk=1820Vdc

Cap. µF	Dimension in mm						du/dt V/µs	lpeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
	B	H	L	d	P	P1			+15°C	+10°C	+5°C		
0,68	11	20	32	0,8	27,5	-	61	41,5	4	3	2,5	23	MHBS703680*H#
1	13	22	32	1,0	27,5	-	61	61	5	4	3	17,8	MHBS704100*H#
1,5	15	24,5	32	1,0	27,5	-	61	91,5	6	4,5	3,5	14	MHBS704150*H#
2	18	33	32	1,2	27,5	-	61	122	8	6,5	4,5	11,5	MHBS704200*H#
2,2	18	33	32	1,2	27,5	-	61	134,2	8,5	6,5	4,5	10,8	MHBS704220*H#
2,2	14	25	42,5	1,2	37,5	-	41	90,2	6,5	5	4	12,5	MHBS704220*J#
2,5	18	33	32	1,2	27,5	-	61	152,5	9	7	5	9,7	MHBS704250*H#
3	18	33	32	1,2	27,5	-	61	183	9,5	7,5	5,5	8,6	MHBS704300*H#
3	18	33	32	1,2	27,5	5,1	61	183	10,5	8,5	6	8	MHBS704300*HSD
3	17	28	42,5	1,2	37,5	-	41	123	8	6,5	5	10,1	MHBS704300*J#
3	17	28	42,5	See lugs drawing			41	123	9,5	7,5	5,5	9,3	MHBS704300*\$\$
3,3	22	37	32	1,2	27,5	-	61	201,3	11	8,5	6,5	8,1	MHBS704330*H#
3,3	22	37	32	1,2	27,5	10,2	61	201,3	12	9	6,5	7,5	MHBS704330*HSD
3,3	22	30	42,5	1,2	37,5	-	41	135,3	9	7,5	5,5	9,6	MHBS704330*J#
3,3	22	30	42,5	See lugs drawing			41	135,3	10,5	8,5	6	8,8	MHBS704330*\$\$
4	22	37	32	1,2	27,5	-	61	244	12	9,5	7	7,1	MHBS704400*H#
4	22	37	32	1,2	27,5	10,2	61	244	13,5	10,5	7,5	6,5	MHBS704400*H#
4	22	30	42,5	1,2	37,5	-	41	164	10	8	6	8,7	MHBS704400*J#
4	22	30	42,5	See lugs drawing			41	164	11,5	9	6,5	7,9	MHBS704400*\$\$
4,7	22	33,5	42,5	1,2	37,5	-	41	192,7	10,5	8,5	6	7,9	MHBS704470*J#
4,7	22	33,5	42,5	1,2	37,5	5,1	41	192,7	11,5	9	6,5	7,3	MHBS704470*JSD
4,7	22	33,5	42,5	See lugs drawing			41	192,7	12,5	10	7,5	7,1	MHBS704470*\$\$
5	22	33,5	42,5	1,2	37,5	-	41	205	10,5	8,5	6,5	7,7	MHBS704500*J#
5	22	33,5	42,5	1,2	37,5	5,1	41	205	11,5	9	6,5	7,1	MHBS704500*JSD
5	22	33,5	42,5	See lugs drawing			41	205	12,5	10	7,5	6,9	MHBS704500*\$\$
6,8	24	44	41,5	1,2	37,5	-	41	278,8	13,5	11	8	6,5	MHBS704680*J#
6,8	24	44	41,5	1,2	37,5	10,2	41	278,8	14,5	11,5	8,5	5,9	MHBS704680*JSD
6,8	24	44	41,5	See lugs drawing ⁽⁴⁾			41	278,8	16	12,5	9,5	5,7	MHBS704680*\$\$
7,5	24	44	41,5	1,2	37,5	-	41	307,5	14	11,5	8,5	6,1	MHBS704750*J#
7,5	24	44	41,5	1,2	37,5	10,2	41	307,5	16	12,5	9	5,5	MHBS704750*JSD
7,5	24	44	41,5	See lugs drawing ⁽⁴⁾			41	307,5	17,5	13,5	10	5,3	MHBS704750*\$\$
7,5	28	37	42,5	1,2	37,5	-	41	307,5	13	10,5	7,5	6,1	MHBS704750*J#A
7,5	28	37	42,5	1,2	37,5	10,2	41	307,5	14,5	11,5	8	5,5	MHBS704750*JSDA
7,5	28	37	42,5	See lugs drawing			41	307,5	16	12,5	9	5,3	MHBS704750*\$\$A
10	30	45	42,5	1,2	37,5	-	41	410	14	13	9,5	5,1	MHBS705100*J#
10	30	45	42,5	1,2	37,5	20,3	41	410	18	14	10,5	4,5	MHBS705100*JSD
10	30	45	42,5	See lugs drawing			41	410	20	15,5	11,5	4,3	MHBS705100*\$\$
12	30	45	57,5	1,2	52,5	-	28	336	14	12,5	9	6	MHBS705120*R#
12	30	45	57,5	1,2	52,5	20,3	28	336	17	13,5	9,5	5,4	MHBS705120*RSD
12	30	45	57,5	See lugs drawing			28	336	18,5	14,5	10	5,2	MHBS705120*\$\$
15	30	45	57,5	1,2	52,5	-	28	420	14	13	10	5,4	MHBS705150*R#
15	30	45	57,5	1,2	52,5	20,3	28	420	18	14,5	10,5	4,8	MHBS705150*RSD
15	30	45	57,5	See lugs drawing			28	420	19,5	15,5	11,5	4,6	MHBS705150*\$\$
20	35	50	57,5	1,2	52,5	-	28	560	14	14	11,5	4,6	MHBS705200*R#
20	35	50	57,5	1,2	52,5	20,3	28	560	21,5	17,5	12	4	MHBS705200*RSD
20	35	50	57,5	See lugs drawing			28	560	23,5	19	13,5	3,8	MHBS705200*\$\$
25	38	57,5	57,5	1,2	52,5	20,3	28	700	23	19	13,5	3,6	MHBS705250*RSD
25	38	57,5	57,5	1,2	52,5	10,2	28	700	24	19,5	14	3,4	MHBS705250*RST
25	38	57,5	57,5	See lugs drawing			28	700	26	21	15	3,4	MHBS705250*\$\$

⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽³⁾ change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "\$\$" characters with the desired lug style code

⁽⁴⁾ Upon request only

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