

MHBS *Upgraded - In progress*

Metallized polypropylene film capacitor

MKP - Switching - High current - DC-Link

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, suitable for AC applications (output filtering)

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, 6 x leads or 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); no superimposed Irms must be applied at Tamb.>+95°C (at Tamb.>+95°C superimposed Irms must be= 0)

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 T=+85°C, case

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

Up to T=+70°C, case

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. Tg δ x10⁻⁴, at 25 \pm 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 $12.0\mu\text{F}$ (P $\leq 37.5\text{mm}$) < Cr $\leq 20.0\mu\text{F}$

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

≤ 17 for $20.0\mu\text{F} < \text{Cr} \leq 75.0\mu\text{F}$

≤ 20 for Cr > 75µF

Insulation resistance (IR)

$\geq 3000\text{s}$ (10000s typical) but need not exceed $3\text{G}\Omega$, between terminals, at 25 \pm 5°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 \pm 5°C

Test voltage between terminals and case (Utc)

3kV 50+60Hz applied for 60s at 25 \pm 5°C

Damp heat test (steady state)

Test conditions	Performance
Temperature= +40 \pm 2°C	Capacitance change $\leq \pm 3\%$
Relative humidity=93 \pm 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)

-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 \pm 5°C

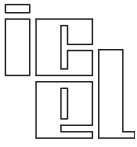
Dipping time (with heat screen)= 10 \pm 1s

Performance:

Capacitance change $\leq \pm 1\%$

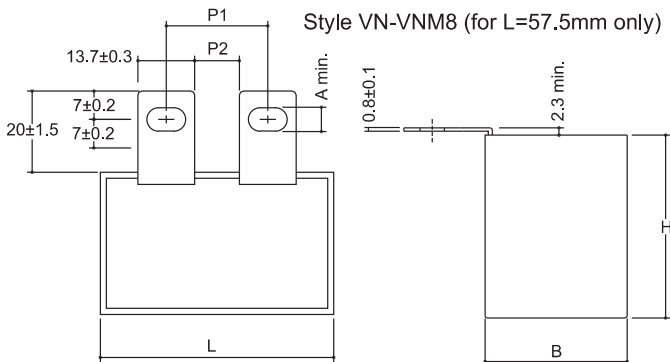
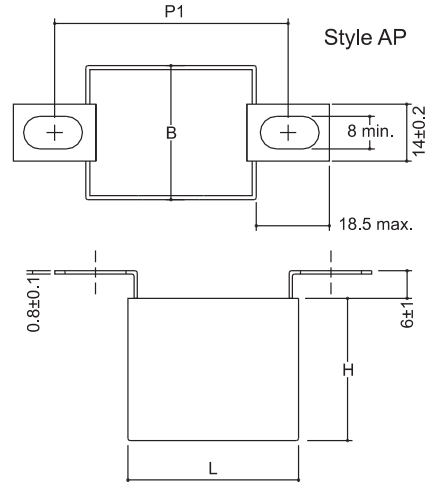
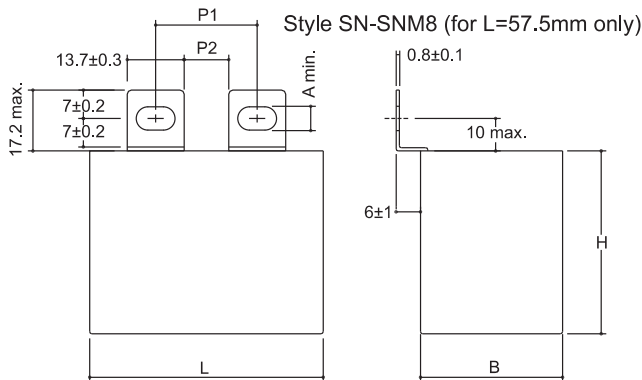
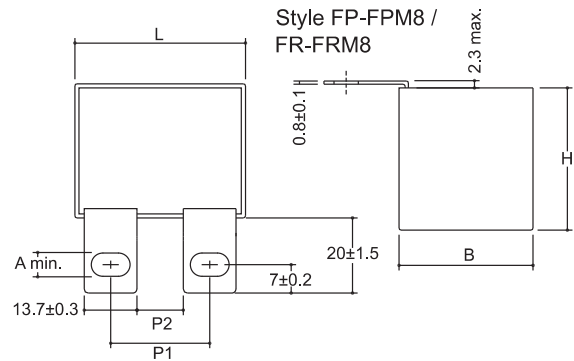
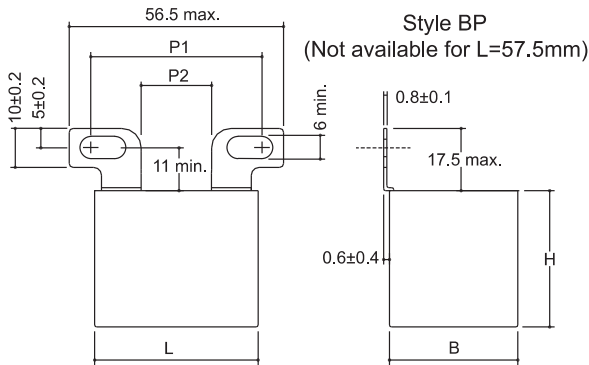
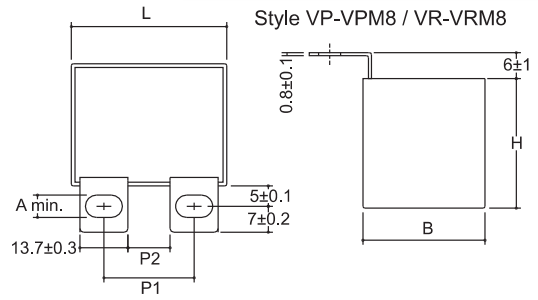
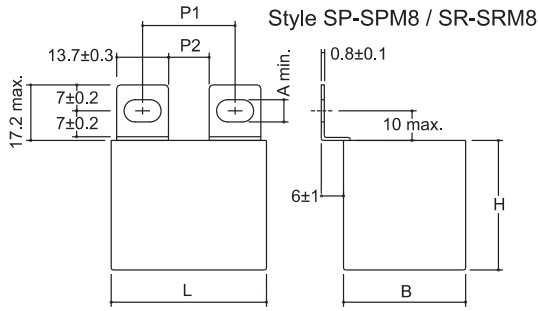
DF change ≤ 0.0010 at 1kHz

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



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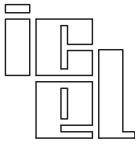
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Fixing slot size (mm)	
SP, VP, FP, SR, VR, FR, SN, VN	A = 6 min
SPM8, VPM8, FPM8, SRM8, VRM8, FRM8, SNM8, VNM8	A = 8 min.

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

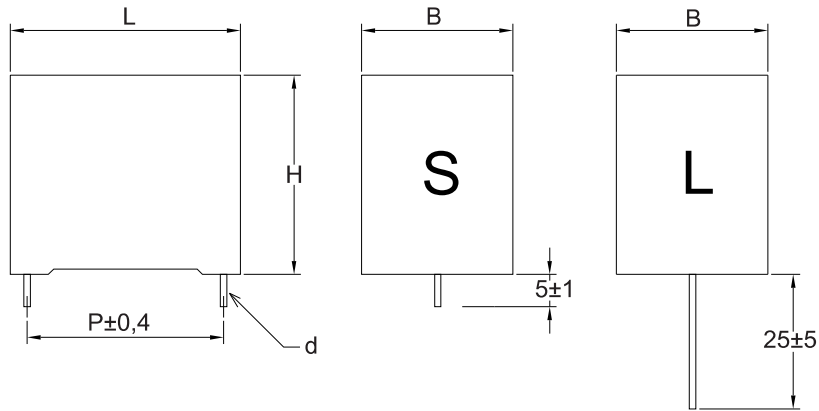
Note: standard fixing slots are for M6 screws; execution with slots for M8 screws upon request only (AP excluded)



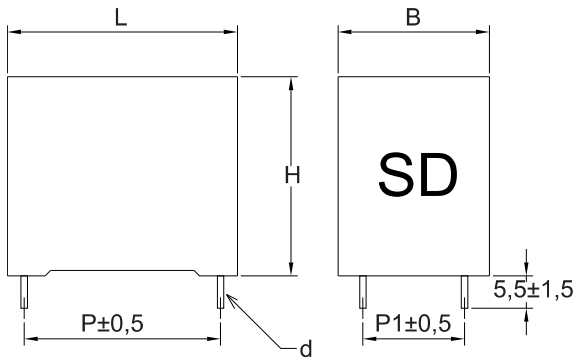
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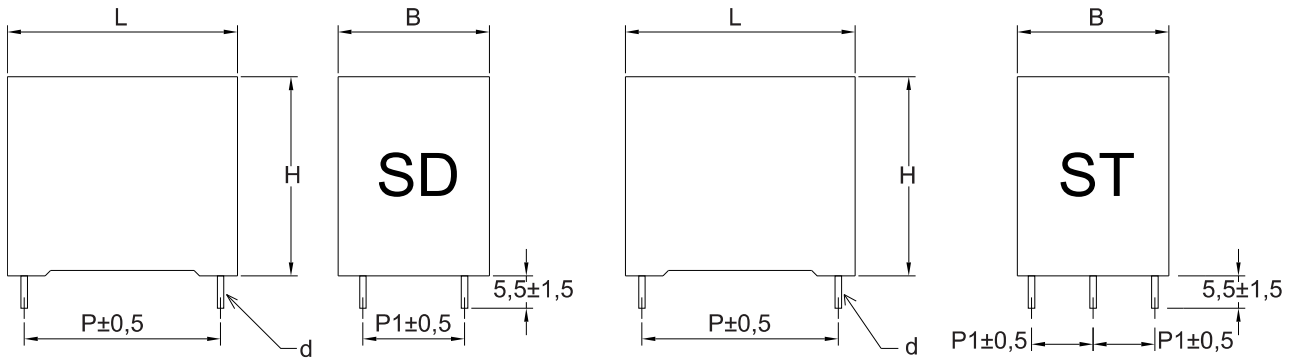
2 terminals execution



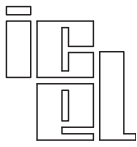
4 terminals execution



6 terminals execution



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MHBS35...: $U_r=575Vdc$; $U_{rms}=240Vac$; $U_{pkr}=660Vdc$; $U_{pk}=750Vdc$
Max. admissible voltage at +70°C (case)= 630Vdc, 250Vac, $U_{pkr}=720Vdc$, $U_{pk}=815Vdc$

Cap. μF	Dimension in mm							du/dt V/μs	I _{peak} (A)	I _{rms} 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	5	4	3	14,5	MHBS354330*H#	
4,7	13	22	32	1,0	27,5	-	27	126,9	6	5	3,5	11,3	MHBS354470*H#	
5	13	22	32	1,0	27,5	-	27	135	6	5	3,5	10,8	MHBS354500*H#	
6,8	15	24,5	32	1,0	27,5	-	27	102,6	7	5,5	4	9,3	MHBS354680*H#	
7,5	14	28	32	1,2	27,5	-	27	202,5	8	6	4,5	8,3	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	6,2	MHBS355120*H#	
12	18	33	32	1,2	27,5	5,1	27	324	12	9,5	6,5	5,5	MHBS355120*HSD	
12	17	28	42,5	1,2	37,5	-	19	228	9,5	8	5,5	7,2	MHBS355120*J#	
12	17	28	42,5	See lugs drawing			19	228	11	9	6,5	6,4	MHBS355120*YY	
15	22	37	32	1,2	27,5	-	27	405	12	9,5	7	5,6	MHBS355150*H#	
15	22	37	32	1,2	27,5	10,2	27	405	13,5	11	7,5	4,9	MHBS355150*HSD	
15	22	30	42,5	1,2	37,5	-	19	285	11	9	6,5	6,4	MHBS355150*J#	
15	22	30	42,5	See lugs drawing			19	285	14	11	8,5	5,6	MHBS355150*YY	
20	20	40	41,5	1,2	37,5	-	19	380	13	10,5	7,5	5,6	MHBS355200*J#	
20	20	40	41,5	1,2	37,5	10,2	19	380	15	12	8,6	5	MHBS355200*JSD	
20	20	40	41,5	See lugs drawing ⁽⁴⁾			19	380	16	13	9	4,8	MHBS355200*YY	
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	16	12,5	9	4,4	MHBS355250*JSD	
25	28	37	42,5	See lugs drawing			19	475	17,5	14	10	4,2	MHBS355250*YY	
30	28	37	42,5	1,2	37,5	-	19	570	14	12	8,5	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*YY	
35	30	45	42,5	1,2	37,5	-	19	665	14	14	10	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	3,5	MHBS355350*YY	
40	30	45	42,5	1,2	37,5	-	19	760	14	14	10,5	4	MHBS355400*J#	
40	30	45	42,5	1,2	37,5	20,3	19	760	20	16	11,5	3,4	MHBS355400*JSD	
40	30	45	42,5	See lugs drawing			19	760	22	17,5	12,5	3,2	MHBS355400*YY	
50	30	45	57,5	1,2	52,5	-	12,5	625	14	14	11	4,6	MHBS355500*R#	
50	30	45	57,5	1,2	52,5	20,3	12,5	625	20,5	16,5	11,5	4	MHBS355500*RSD	
50	30	45	57,5	See lugs drawing			12,5	625	22,5	18,5	13	3,8	MHBS355500*YY	
60	30	45	57,5	1,2	52,5	-	12,5	750	14	14	11,5	4,2	MHBS355600*R#	
60	30	45	57,5	1,2	52,5	20,3	12,5	750	21,5	17,5	12,5	3,6	MHBS355600*RSD	
60	35	50	57,5	See lugs drawing			12,5	750	25	20	14	3,4	MHBS355600*YY	
75	35	50	57,5	1,2	52,5	-	12,5	937,5	14	14	13	3,9	MHBS355750*R#	
75	35	50	57,5	1,2	52,5	20,3	12,5	937,5	24	19,5	14	3,3	MHBS355750*RSD	
75	35	50	57,5	See lugs drawing			12,5	937,5	27	22	15,5	3,1	MHBS355750*YY	
90	38	57,5	57,5	1,2	52,5	20,3	12,5	1125	25,5	21	14,5	3,1	MHBS355900*RSD	
90	38	57,5	57,5	1,2	52,5	10,2	12,5	1125	26,5	21,5	15	2,9	MHBS355900*RST	
90	38	57,5	57,5	See lugs drawing			12,5	1125	28,5	23	16	2,9	MHBS355900*YY	
100	38	57,5	57,5	1,2	52,5	20,3	12,5	1250	26,0	21,5	15	3	MHBS356100*RSD	
100	38	57,5	57,5	1,2	52,5	10,2	12,5	1250	27,0	22	15,5	2,8	MHBS356100*RST	

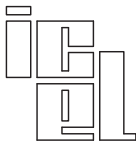
⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; I_{rms} rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. I_{rms} applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability 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 "YY" 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	B	H	Dimension in mm				du/dt V/μs	Ipeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
			L	d	P	P1		+15°C	+10°C	+5°C			
2,5	11	20	32	0,8	27,5	-	31	77,5	5	4	3	15,2	MHBS404250*H#
3,3	13	22	32	1,0	27,5	-	31	102,3	5,5	4,5	3,5	12,7	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	12	9,5	7	5,8	MHBS405120*H#
12	22	37	32	1,2	27,5	10,2	31	372	13,5	11	7,5	5,2	MHBS405120*HSD
12	22	30	42,5	1,2	37,5	-	21	252	11	9	6,5	6,4	MHBS405120*J#
12	22	30	42,5	See lugs drawing			21	252	13,5	11	8	5,6	MHBS405120*YY
15	22	33,5	42,5	1,2	37,5	-	21	315	12,5	10	7	5,5	MHBS405150*J#
15	22	33,5	42,5	1,2	37,5	5,1	21	315	14	11	8	4,9	MHBS405150*JSD
15	22	33,5	42,5	See lugs drawing			21	315	15	12	8,5	4,7	MHBS405150*YY
20	24	44	41,5	See lugs drawing ⁽⁴⁾			21	420	18,5	14,5	10,5	4,1	MHBS405200*YY
20	28	37	42,5	1,2	37,5	-	21	420	14	12	8,5	4,9	MHBS405200*J#
20	28	37	42,5	1,2	37,5	10,2	21	420	16,5	13	9,5	4,3	MHBS405200*JSD
20	28	37	42,5	See lugs drawing			21	420	18	14,5	10,5	4,1	MHBS405200*YYA
22	24	44	41,5	1,2	37,5	-	21	462	14	12,5	9	4,6	MHBS405220*J#
22	24	44	41,5	1,2	37,5	10,2	21	462	17,5	14	10	4	MHBS405220*JSD
22	24	44	41,5	See lugs drawing			21	462	18,5	15	10,5	3,8	MHBS405220*JYY
22	28	37	42,5	1,2	37,5	-	21	462	14	12	8,5	4,6	MHBS405220*J#A
22	28	37	42,5	1,2	37,5	10,2	21	462	16,5	13,5	9,5	4	MHBS405220*JSDA
22	28	37	42,5	See lugs drawing			21	462	18,5	15	10,5	3,8	MHBS405220*JYYA
25	24	44	41,5	1,2	37,5	-	21	525	14	13	9,5	4,3	MHBS405250*J#
25	24	44	41,5	1,2	37,5	10,2	21	525	18	14,5	10,5	3,7	MHBS405250*JSD
25	24	44	41,5	See lugs drawing ⁽⁴⁾			21	525	19,5	15,5	11	3,5	MHBS405250*JYY
30	30	45	42,5	1,2	37,5	-	21	630	14	14	10,5	4	MHBS405300*J#
30	30	45	42,5	1,2	37,5	20,3	21	630	20	16	11,5	3,4	MHBS405300*JSD
30	30	45	42,5	See lugs drawing			21	630	22	17,5	12,5	3,2	MHBS405300*YY
40	30	45	57,5	1,2	52,5	-	14,5	580	14	14	11	4,4	MHBS405400*R#
40	30	45	57,5	1,2	52,5	20,3	14,5	580	21	17	12	3,8	MHBS405400*RSD
40	30	45	57,5	See lugs drawing			14,5	580	23	19	13,5	3,6	MHBS405400*YY
45	30	45	57,5	1,2	52,5	-	14,5	652,5	14	14	11,5	4,2	MHBS405450*R#
45	30	45	57,5	1,2	52,5	20,3	14,5	652,5	21,5	17,5	12,5	3,6	MHBS405450*RSD
45	30	45	57,5	See lugs drawing			14,5	652,5	24	19,5	13,5	3,4	MHBS405450*YY
50	35	50	57,5	1,2	52,5	-	14,5	725	14	14	12,5	4	MHBS405500*R#
50	35	50	57,5	1,2	52,5	20,3	14,5	725	23,5	19,5	13,5	3,4	MHBS405500*RSD
50	35	50	57,5	See lugs drawing			14,5	725	26,5	21,5	15,5	3,2	MHBS405500*YY
55	35	50	57,5	1,2	52,5	-	14,5	797,5	14	14	13	3,9	MHBS405550*R#
55	35	50	57,5	1,2	52,5	20,3	14,5	797,5	24	20	14	3,3	MHBS405550*RSD
55	35	50	57,5	See lugs drawing			14,5	797,5	27	22	15,5	3,1	MHBS405550*YY
60	35	50	57,5	1,2	52,5	-	14,5	870	14	14	13,5	3,7	MHBS405600*R#
60	35	50	57,5	1,2	52,5	20,3	14,5	870	25	20,5	14,5	3,1	MHBS405600*RSD
60	35	50	57,5	See lugs drawing			14,5	870	28	23	16	2,9	MHBS405600*YY
75	38	57,5	57,5	1,2	52,5	20,3	14,5	1087,5	26	21,5	15,5	2,9	MHBS405750*RSD
75	38	57,5	57,5	1,2	52,5	10,2	14,5	1087,5	27,5	22,5	16	2,7	MHBS405750*RST
75	38	57,5	57,5	See lugs drawing			14,5	1087,5	29	24	17	2,7	MHBS405750*YY
80	38	57,5	57,5	1,2	52,5	20,3	14,5	1160	26	22	15,5	2,8	MHBS405800*RSD
80	38	57,5	57,5	1,2	52,5	10,2	14,5	1160	28	23	16	2,6	MHBS405750*RST

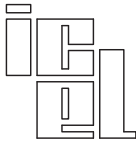
⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability 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 “YY” 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



MHBS *Upgraded - In progress*

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



MHBS45...: Ur=800Vdc; Urms= 315Vac; Upkr= 920Vdc; Upk= 1040Vdc

Max. admissible voltage at +70°C (case)= 880Vdc, 330Vac, Upkr=1010Vdc, Upk=1140Vdc

Cap. μF	B	H	Dimension in mm				du/dt V/μs	Ipeak (A)	Irms max. (A) for Δt/Ta ⁽¹⁾			ESR ⁽²⁾ mΩ	ICEL Code ⁽³⁾
			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	MHBS454220*H#
3	13	22	32	1,0	27,5	-	36	108	5,5	4,5	3,5	12,2	MHBS454300*H#
4	15	24,5	32	1,0	27,5	-	36	144	6,5	5,5	4	10,2	MHBS454400*H#
5	14	28	32	1,2	27,5	-	36	180	8,5	6,5	4,5	10,5	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	8	5,5	7,1	MHBS454750*H#
7,5	18	33	32	1,2	27,5	5,1	36	270	11	9	6	6,5	MHBS454750*HSD
7,5	17	28	42,5	1,2	37,5	-	24	180	9	7,5	5	8,3	MHBS454750*J#
7,5	17	28	42,5	See lugs drawing			24	180	10,5	8,5	6	7,5	MHBS454750*YY
10	22	37	32	1,2	27,5	-	36	360	11,5	9,5	6,5	5,9	MHBS455100*H#
10	22	37	32	1,2	27,5	10,2	24	360	13	10	7,5	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*YY
12	22	33,5	42,5	1,2	37,5	-	24	288	12	9,5	6,5	6,4	MHBS455120*J#
12	22	33,5	42,5	1,2	37,5	5,1	24	288	13	10,5	7,5	5,8	MHBS455120*JSD
12	22	33,5	42,5	See lugs drawing			24	288	14	11	8	5,6	MHBS455120*YY
15	20	40	41,5	1,2	37,5	-	24	360	13	10,5	7,5	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	12	8,5	4,8	MHBS455200*J#
20	24	44	41,5	1,2	37,5	10,2	24	480	17	13,5	9,5	4,2	MHBS455200*JSD
22	30	45	42,5	1,2	37,5	-	24	528	14	13,5	9,5	4,6	MHBS455220*J#
22	30	45	42,5	1,2	37,5	20,3	24	528	18,5	15	10,5	4	MHBS455220*JSD
22	30	45	42,5	See lugs drawing			24	528	20	16	11,5	3,8	MHBS455220*YY
25	30	45	42,5	1,2	37,5	-	24	600	14	14	10	4,3	MHBS455250*J#
25	30	45	42,5	1,2	37,5	20,3	24	600	19	15,5	11	3,7	MHBS455250*JSD
25	30	45	42,5	See lugs drawing			24	600	21	17	12	3,5	MHBS455250*YY
30	30	45	57,5	1,2	52,5	-	16,5	495	14	14	10,5	4,9	MHBS455300*R#
30	30	45	57,5	1,2	52,5	20,3	16,5	495	19,5	16	11,5	4,3	MHBS455300*RSD
30	30	45	57,5	See lugs drawing			16,5	495	21,5	17,5	12,5	4,1	MHBS455300*YY
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	20,5	17	12	3,9	MHBS455350*RSD
35	30	45	57,5	See lugs drawing			16,5	577,5	22,5	18,5	13	3,7	MHBS455350*YY
40	35	50	57,5	1,2	52,5	-	16,5	660	14	14	12	4,2	MHBS455400*R#
40	35	50	57,5	1,2	52,5	20,3	16,5	660	23	19	13	3,6	MHBS455400*RSD
40	35	50	57,5	See lugs drawing			16,5	660	25,5	21	15	3,4	MHBS455400*YY
45	35	50	57,5	1,2	52,5	-	16,5	742,5	14	14	12,5	4	MHBS455450*R#
45	35	50	57,5	1,2	52,5	20,3	16,5	742,5	23,5	19,5	13,5	3,4	MHBS455450*RSD
45	35	50	57,5	See lugs drawing			16,5	742,5	26,5	21,5	15	3,2	MHBS455450*YY
47	35	50	57,5	1,2	52,5	-	16,5	775,5	14	14	13	3,9	MHBS455470*R#
47	35	50	57,5	1,2	52,5	20,3	16,5	775,5	24	20	14	3,3	MHBS455470*RSD
60	38	57,5	57,5	1,2	52,5	20,3	16,5	990	26	21,5	15	3	MHBS455600*RSD
60	38	57,5	57,5	1,2	52,5	10,2	16,5	990	27	22	15,5	2,8	MHBS455600*RST
60	38	57,5	57,5	See lugs drawing			16,5	990	29	23,5	16,5	2,8	MHBS455600*YY
65	38	57,5	57,5	1,2	52,5	20,3	16,5	1072,5	26	22	15,5	2,9	MHBS455650*RSD
65	38	57,5	57,5	1,2	52,5	10,2	16,5	1072,5	27,5	22,5	16	2,7	MHBS455650*RST

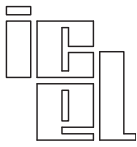
⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta=T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability 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 "YY" 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



MHBS *Upgraded - In progress*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link
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	Ipeak (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	5,5	4,5	3	14	MHBS504220*H#
2,5	13	22	32	1,0	27,5	-	41,5	103,7	5,5	4,5	3	13	MHBS504250*H#
3	15	24,5	32	1,0	27,5	-	41,5	124,5	6,5	5	3,5	11,7	MHBS504300*H#
3,3	14	28	32	1,2	27,5	-	41,5	137	7	5,5	4	10,7	MHBS504330*H#
4,7	18	33	32	1,2	27,5	-	41,5	195	8,5	6,5	5	8,9	MHBS504470*H#
4,7	14	25	42,5	1,2	37,5	-	28	131,6	7,5	6	4	10,6	MHBS504470*J#
6	18	33	32	1,2	27,5	-	41,5	249	9,5	7,5	5,5	7,6	MHBS504600*H#
6	18	33	32	1,2	27,5	5,1	41,5	249	10,5	8,5	6	7	MHBS504600*HSD
6	17	28	42,5	1,2	37,5	-	28	168	9	7	5	9,2	MHBS504600*J#
6	17	28	42,5	See lugs drawing		-	28	168	10,5	8,5	6	8,4	MHBS504600*YY
7,5	22	37	32	1,2	27,5	-	41,5	311,2	11	9	6	6,9	MHBS504750*H#
7,5	22	37	32	1,2	27,5	10,2	41,5	311,2	12	9,5	6,5	6,3	MHBS504750*HSD
7,5	22	30	42,5	1,2	37,5	-	28	210	10	8	5,5	8	MHBS504750*H#
7,5	22	30	42,5	See lugs drawing		-	28	210	12,5	10	7	7,2	MHBS504750*YY
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	13	10,5	7,5	6,2	MHBS505100*JSD
10	22	33,5	42,5	See lugs drawing		-	28	280	13,5	11	8	6,0	MHBS505100*YY
12	20	40	41,5	1,2	37,5	-	28	336	12,5	10,5	7	6,3	MHBS505120*J#
12	20	40	41,5	1,2	37,5	10,2	28	336	13,5	11	7,5	5,7	MHBS505120*JSD
12	20	40	41,5	See lugs drawing ⁽⁴⁾		-	28	336	14,5	12	8,5	5,5	MHBS505120*YY
15	24	44	41,5	1,2	37,5	-	28	420	14	11,5	8,5	5,3	MHBS505150*J#
15	24	44	41,5	1,2	37,5	10,2	28	420	16,5	13	9	4,7	MHBS505150*JSD
15	24	44	41,5	See lugs drawing ⁽⁴⁾		-	28	420	17,5	14	10	4,5	MHBS505150*YY
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	13,5	10	4,5	MHBS505150*YYA
20	30	45	42,5	1,2	37,5	-	28	560	14	13,5	9,5	4,5	MHBS505200*J#
20	30	45	42,5	1,2	37,5	20,3	28	560	18,5	15	10,5	3,9	MHBS505200*JSD
20	30	45	42,5	See lugs drawing		-	28	560	20,5	16,5	11,5	3,7	MHBS505200*YY
25	30	45	57,5	1,2	52,5	-	18,5	462,5	14	14	10	5,3	MHBS505250*J#R#
25	30	45	57,5	1,2	52,5	20,3	18,5	462,5	19	15,5	11	4,7	MHBS505250*RSD
25	30	45	57,5	See lugs drawing		-	18,5	462,5	20	17	12	4,5	MHBS505250*YY
35	35	50	57,5	1,2	52,5	-	18,5	647,5	14	14	12,5	4,2	MHBS505350*R#
35	35	50	57,5	1,2	52,5	20,3	18,5	647,5	23	19	13,5	3,6	MHBS505350*RSD
35	35	50	57,5	See lugs drawing		-	18,5	647,5	26	21	15	3,4	MHBS505350*YY
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	24	20	14	3,3	MHBS505400*RSD ⁽⁵⁾
47	38	57,5	57,5	1,2	52,5	20,3	18,5	869,5	26	21,5	15	3	MHBS505470*RSD
47	38	57,5	57,5	1,2	52,5	10,2	18,5	869,5	27	22	15,5	2,8	MHBS505470*RST
47	38	57,5	57,5	See lugs drawing		-	18,5	869,5	29	23,5	16,5	2,8	MHBS505470*YY
50	38	57,5	57,5	1,2	52,5	20,3	18,5	925	26	21,5	15	3	MHBS505500*RSD
50	38	57,5	57,5	1,2	52,5	10,2	18,5	925	27,5	22,5	15,5	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

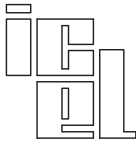
⁽²⁾ typical value at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

⁽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 "YY" characters with the desired lug style code

⁽⁴⁾ Upon request only

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

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



MHBS *Upgraded - In progress*

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

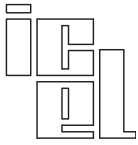
⁽¹⁾ at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability 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 "YY" 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



MHBS *Upgraded - In progress*

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

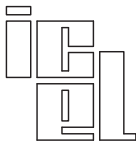
⁽¹⁾ at f=10kHz+60kHz for P=27.5mm, at f=10kHz+45kHz for P=37.5mm, at f=10kHz+30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability 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 "YY" 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



MHBS *Upgraded - In progress*

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

⁽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 "YY" 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