MHBS (MHB version S) *NEW in progress*

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

Main applications
Switching capacitor for industrial and motor speed controls, DC-link, SMPS, induction heaters, 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 special 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 x leads (S=5±1mm, L=25±5mm leads length), 4 xleads (SD=5,5±1,5mm) 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 ≥ 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 75µF. Refer to article table

Capacitance tolerance (at 1kHz)
±10% (code=K), ±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 ≤ ±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 ΔT/Tamb. data in function of the applied Irms listed in the article table

Permissibile 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 artiche table

Max. ripetitive peak voltage (Upkr), up to T=+85°C, case (total: 1hour max./ day)
660, 805, 920, 1035, 1150, 1265, 1465 Vdc

Non Recurrent Surge Voltage (Upk), up to T=+85°C, case
750, 910, 1040, 1070, 1300, 1430, 1655Vdc

Self inductance
≤ 1nH/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 artiche 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}, measured at 25±5°C, 1kHz
≤ 6 for Cr ≤ 4.0µF
≤ 8 for 4.0 µF < Cr ≤ 12.0µF (P≤37.5mm)
≤ 11 for 12.0µF (P≤37.5mm) < Cr ≤ 20.0µF
≤ 14 for 20.0µF < Cr ≤ 40.0µF
≤ 17 for Cr > 40µF

Insulation resistance (IR)
≥ 3000s (10000s typical) but need not exceed 3GΩ,when measured 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 ≤ ±3%
Relative humidity=93±2%	DF change ≤ 2 x initial limit (1kHz)
Test duration= 56 days	IR≥ 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
≥60'000 hours at Urms or ≥200'000 hours at Ur with T(case)≤+70°C: expected life max. limit reference.

≥30'000 hours at Urms or ≥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).

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

Failure quota
300/10^9 component hours

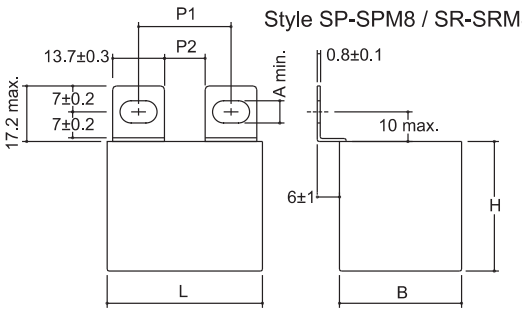
Resistance to soldering heat test
Test conditions:
Solder bath temperature= +260±5°C
Dipping time (with heat screen)= 10±1s

Performance:
Capacitance change ≤ ±1%
DF change ≤ 0.0010 at 1kHz
IR≥ 50% of initial limit value

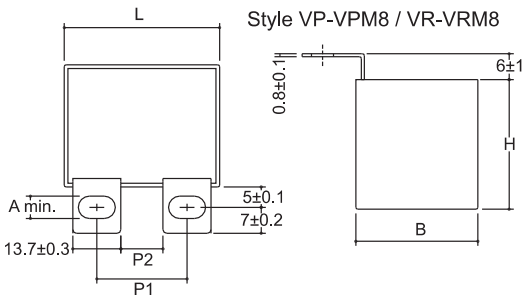
MHBS (MHB version S) *NEW in progress*

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

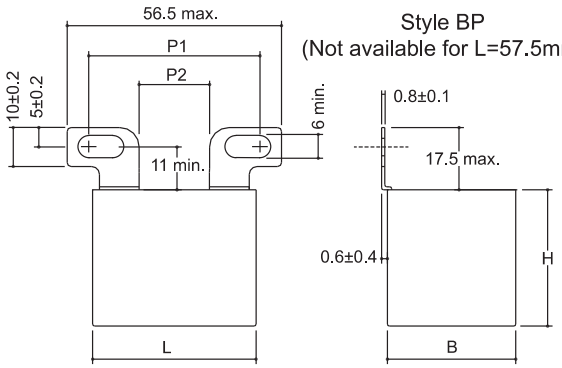
Style SP-SPM8 / SR-SRM8



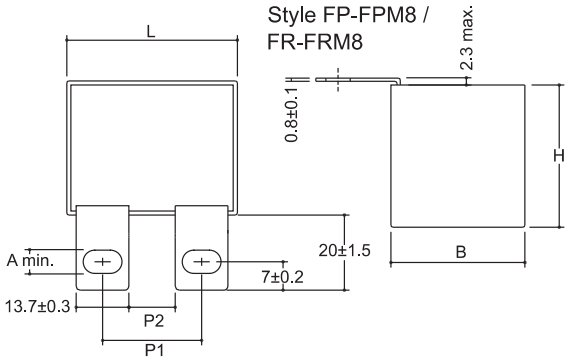
Style VP-VPM8 / VR-VRM8



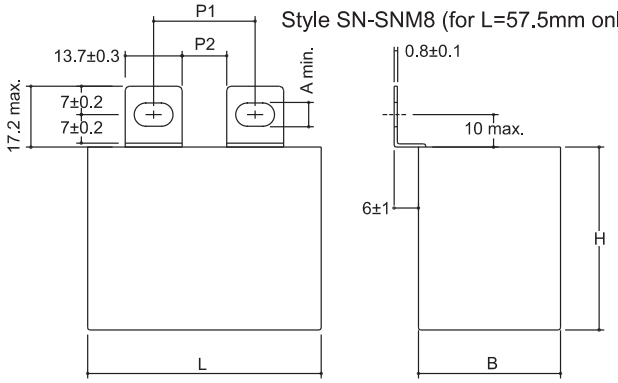
Style BP
(Not available for L=57.5mm)



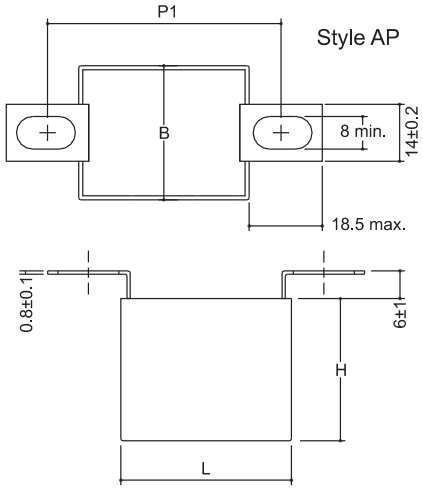
Style FP-FPM8 /
FR-FRM8



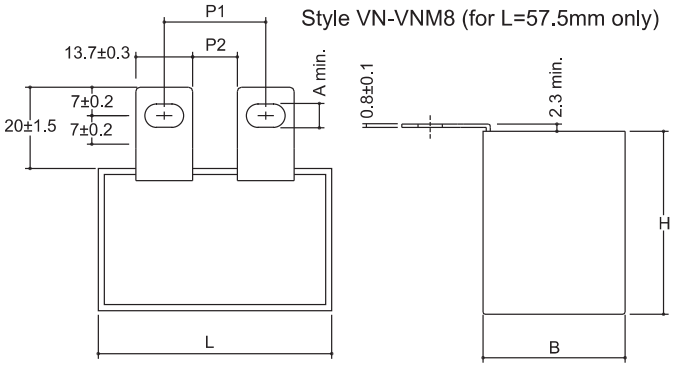
Style SN-SNM8 (for L=57.5mm only)



Style AP



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



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.

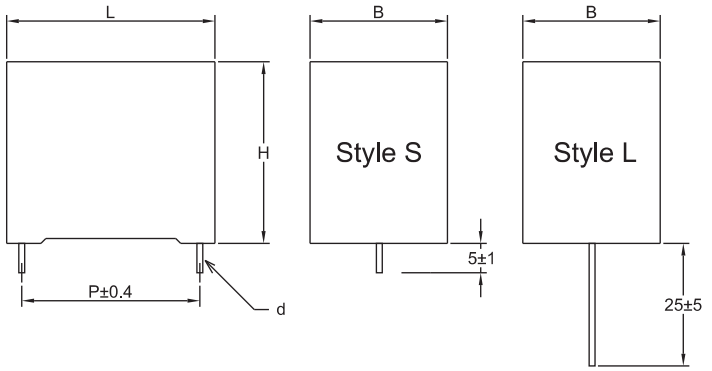
Fixing pitch and distance between lugs (mm)				
Lug style	L	P1		P2
		M6	M8	min.
SP-SPM8 VP-VPM8 FP-FPM8	42,5	23 ÷ 28	25 ÷ 26	11
	57,5	37 ÷ 42	39 ÷ 40	24
SR-SRM8 VR-VRM8 FR-FRM8	42,5	20 ÷ 25	22 ÷ 23	8
	57,5	34 ÷ 39	36 ÷ 37	21
SN-SNM8 VN-VNM8	42,5	Not available		
	57,5	23 ÷ 28	25 ÷ 26	11
AP	42,5	-	51 ÷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

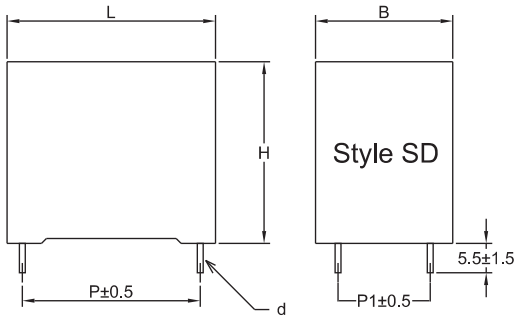
MHBS (MHB version S) *NEW in progress*

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

2xT execution



4xT execution



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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
3,3	11	20	32	0,8	27,5	-	27	89,1	**5**	4	3	13,5	MHBS354330*H#
4,7	13	22	32	1,0	27,5	-	27	126,9	**6**	5	3,5	11	MHBS354470*H#
5	13	22	32	1,0	27,5	-	27	135	**6**	5	3,5	10,5	MHBS354500*H#
6,8	15	24,5	32	1,0	27,5	-	27	102,6	**7**	5,5	4	9,1	MHBS354680*H#
7,5	14	28	32	1,2	27,5	-	27	202,5	**8**	6	4,5	8,2	MHBS354750*H#
10	18	33	32	1,2	27,5	-	27	270	**10**	8	5,5	6,9	MHBS355100*H#
12	18	33	32	1,2	27,5	-	27	324	**11**	8,5	6	6,2	MHBS355120*H#
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	4,9	MHBS355200*JSD
20	20	40	41,5	See lugs drawing			19	380	**16**	13	9	4,7	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	4,1	MHBS355300*JSD
30	28	37	42,5	See lugs drawing			19	570	**18,5**	14,5	10,5	3,9	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	4,4	MHBS355500*R#
50	30	45	57,5	1,2	52,5	20,3	12,5	625	**21**	16,5	12	3,8	MHBS355500*RSD
50	30	45	57,5	See lugs drawing			12,5	625	**23**	18,5	13	3,6	MHBS355500*YY
60	30	45	57,5	1,2	52,5	-	12,5	750	**14**	14	11,5	4	MHBS355600*R#
60	30	45	57,5	1,2	52,5	20,3	12,5	750	**22**	17,5	12,5	3,4	MHBS355600*RSD
60	35	50	57,5	See lugs drawing			12,5	750	**26**	20,5	15	3,2	MHBS355600*YY
75	35	50	57,5	1,2	52,5	-	12,5	937,5	**14**	14	13	3,7	MHBS355750*R#
75	35	50	57,5	1,2	52,5	20,3	12,5	937,5	**25**	20	14,5	3,1	MHBS355750*RSD
75	35	50	57,5	See lugs drawing			12,5	937,5	**27,5**	22	16	2,9	MHBS355750*YY

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%
[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

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

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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2,5	11	20	32	0,8	27,5	-	31	77,5	**5**	4	3	14	MHBS404250*H#
3,3	13	22	32	1,0	27,5	-	31	102,3	**5,5**	4,5	3,5	12	MHBS404330*H#
4,7	15	24,5	32	1,0	27,5	-	31	145,7	**6,5**	5,5	4	10	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#
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			21	420	**18,5**	14,5	10,5	4	MHBS405200*YY
20	28	37	42,5	1,2	37,5	-	21	420	**14**	12	8,5	4,8	MHBS405200*J#
20	28	37	42,5	1,2	37,5	10,2	21	420	**16,5**	13	9,5	4,2	MHBS405200*JSD
20	28	37	42,5	See lugs drawing			21	420	**18**	14,5	10,5	4	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			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	4,2	MHBS405400*R#
40	30	45	57,5	1,2	52,5	20,3	14,5	580	**21,5**	17	12,5	3,6	MHBS405400*RSD
40	30	45	57,5	See lugs drawing			14,5	580	**23,5**	19	13,5	3,4	MHBS405400*YY
45	30	45	57,5	1,2	52,5	-	14,5	652,5	**14**	14	11,5	4	MHBS405450*R#
45	30	45	57,5	1,2	52,5	20,3	14,5	652,5	**22**	17,5	12,5	3,4	MHBS405450*RSD
45	30	45	57,5	See lugs drawing			14,5	652,5	**24,5**	19,5	14	3,2	MHBS405450*YY
50	35	50	57,5	1,2	52,5	-	14,5	725	**14**	14	12,5	3,8	MHBS405500*R#
50	35	50	57,5	1,2	52,5	20,3	14,5	725	**24,5**	19,5	14	3,2	MHBS405500*RSD
50	35	50	57,5	See lugs drawing			14,5	725	**27**	21,5	15,5	3	MHBS405500*YY
55	35	50	57,5	1,2	52,5	-	14,5	797,5	**14**	14	13	3,7	MHBS405550*R#
55	35	50	57,5	1,2	52,5	20,3	14,5	797,5	**25**	20	14,5	3,1	MHBS405550*RSD
55	35	50	57,5	See lugs drawing			14,5	797,5	**27,5**	22	16	2,9	MHBS405550*YY
60	35	50	57,5	1,2	52,5	-	14,5	870	**14**	14	14	3,5	MHBS405600*R#
60	35	50	57,5	1,2	52,5	20,3	14,5	870	**26**	21	15	2,9	MHBS405600*RSD
60	35	50	57,5	See lugs drawing			14,5	870	**28,5**	23	16,5	2,7	MHBS405600*YY

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%

[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

Metallized polypropylene film capacitor
MKP - Switching - High current
2/4 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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2,2	11	20	32	0,8	27,5	-	36	79,2	**4,5**	4	3	14	MHBS454220*H#
3	13	22	32	1,0	27,5	-	36	108	**5,5**	4,5	3,5	11,6	MHBS454300*H#
4	15	24,5	32	1,0	27,5	-	36	144	**6,5**	5,5	4	9,8	MHBS454400*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	17	28	42,5	1,2	37,5	-	24	180	**9**	7,5	5	8,2	MHBS454750*J#
7,5	17	28	42,5	See lugs drawing			24	180	**10,5**	8,5	6	7,4	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	4,7	MHBS455300*R#
30	30	45	57,5	1,2	52,5	20,3	16,5	495	**20**	16	11,5	4,1	MHBS455300*RSD
30	30	45	57,5	See lugs drawing			16,5	495	**22**	17,5	12,5	3,9	MHBS455300*YY
40	35	50	57,5	1,2	52,5	-	16,5	660	**14**	14	12,5	4	MHBS455400*R#
40	35	50	57,5	1,2	52,5	20,3	16,5	660	**23,5**	19,5	13,5	3,4	MHBS455400*RSD
40	35	50	57,5	See lugs drawing			16,5	660	**26**	21	15	3,2	MHBS455400*YY
45	35	50	57,5	1,2	52,5	-	16,5	742,5	**14**	14	13	3,8	MHBS455450*R#
45	35	50	57,5	1,2	52,5	20,3	16,5	742,5	**24,5**	20	14,5	3,2	MHBS455450*RSD
45	35	50	57,5	See lugs drawing			16,5	742,5	**27**	22	15,5	3	MHBS455450*YY
47	35	50	57,5	1,2	52,5	-	16,5	775,5	**14**	14	14	3,7	MHBS455470*R#
47	35	50	57,5	1,2	52,5	20,3	16,5	775,5	**25**	20,5	14,5	3,1	MHBS455470*RSD

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%

[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

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

MHBS50…: Ur=900Vdc; Urms= 350Vac; Upkr= 1035Vdc; Upk= 1170VdcMax.
Max. voltage at +70°C= 1000Vdc, 370Vac

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2,2	13	22	32	1,0	27,5	-	41,5	91,3	**5,5**	4,5	3	13,1	MHBS504220*H#
2,5	13	22	32	1,0	27,5	-	41,5	103,7	**5,5**	4,5	3	12,2	MHBS504250*H#
3	15	24,5	32	1,0	27,5	-	41,5	124,5	**6,5**	5	3,5	11,2	MHBS504300*H#
3,3	14	28	32	1,2	27,5	-	41,5	137	**7**	5,5	4	10,6	MHBS504330*H#
4,7	14	25	42,5	1,2	37,5	-	28	131,6	**7,5**	6	4	10,6	MHBS504470*J#
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*J#
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	6,7	MHBS505100*J#
10	22	33,5	42,5	1,2	37,5	5,1	28	280	**13**	10,5	7,5	6,1	MHBS505100*JSD
10	22	33,5	42,5	See lugs drawing			28	280	**13,5**	11	8	5,9	MHBS505100*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			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	5	MHBS505250*R#
25	30	45	57,5	1,2	52,5	20,3	18,5	462,5	**19,5**	16	11,5	4,4	MHBS505250*RSD
25	30	45	57,5	See lugs drawing			18,5	462,5	**21,5**	17,5	12,5	4,2	MHBS505250*YY
35	35	50	57,5	1,2	52,5	-	18,5	647,5	**14**	14	12	4,1	MHBS505350*R#
35	35	50	57,5	1,2	52,5	20,3	18,5	647,5	**23,5**	19	13,5	3,5	MHBS505350*RSD
35	35	50	57,5	See lugs drawing			18,5	647,5	**26**	21	15	3,3	MHBS505350*YY

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%

[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

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

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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
1,5	11	20	32	0,8	27,5	-	47	70,5	**4,5**	3,5	2,5	16,4	MHBS554150*H#
2,0	13	22	32	1,0	27,5	-	47	96	**5,5**	4,5	3	13,3	MHBS554200*H#
2,5	15	24,5	32	1,0	27,5	-	47	117,5	**6**	5	3,5	11,9	MHBS554250*H#
3	14	28	32	1,2	27,5	-	47	141	**7**	5,5	4	10,6	MHBS554300*H#
4	14	25	42,5	1,2	37,5	-	31	124	**7,5**	6	4	10,7	MHBS554400*J#
4,7	18	33	32	1,2	27,5	-	47	220,9	**9**	7	5	8,3	MHBS554470*H#
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	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	7,8	MHBS554680*J#
6,8	22	30	42,5	See lugs drawing			31	210,8	**12**	9,5	7	7	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			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	MHBS555120*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			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	4,9	MHBS555220*R#
22	30	45	57,5	1,2	52,5	20,3	21	462	**19,5**	15,5	11,5	4,3	MHBS555220*RSD
22	30	45	57,5	See lugs drawing			21	462	**21,5**	17	12,5	4,1	MHBS555220*YY
30	35	50	57,5	1,2	52,5	-	21	630	**14**	14	12	4,1	MHBS555300*R#
30	35	50	57,5	1,2	52,5	20,3	21	630	**23,5**	19	13,5	3,5	MHBS555300*RSD
30	35	50	57,5	See lugs drawing			21	630	**26**	21	15	3,3	MHBS555300*YY

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%

[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

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

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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
1,2	11	20	32	0,8	27,5	-	50	60	**4,5**	3,5	2,5	16,5	MHBS604120*H#
1,5	13	22	32	1,0	27,5	-	50	75	**5**	4	3	14,5	MHBS604150*H#
2	15	24,5	32	1,0	27,5	-	50	100	**6**	5	3,5	12,4	MHBS604200*H#
2,2	15	24,5	32	1,0	27,5	-	50	110	**6**	5	3,5	11,7	MHBS604220*H#
2,5	14	28	32	1,2	27,5	-	50	125	**7**	5,5	4	10,6	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	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	6,5	MHBS604750*J#
7,5	22	33,5	42,5	1,2	37,5	10,2	34	255	**13**	10,5	7,5	5,9	MHBS604750*JSD
7,5	20	40	41,5	See lugs drawing			34	255	**14**	11,5	8	5,7	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			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	4,6	MHBS065200*R#
20	30	45	57,5	1,2	52,5	20,3	23	460	**20,5**	16,5	11,5	4	MHBS065200*RSD
20	30	45	57,5	See lugs drawing			23	460	**22,5**	18	13	3,8	MHBS605200*YY
22	35	50	57,5	1,2	52,5	-	23	506	**14**	14	12	4,4	MHBS605220*R#
22	35	50	57,5	1,2	52,5	20,3	23	506	**22,5**	18,5	13	3,8	MHBS605220*RSD
22	35	50	57,5	See lugs drawing			23	506	**24,5**	20	14,5	3,6	MHBS605220*YY
25	35	50	57,5	1,2	52,5	-	23	575	**14**	14	14	4,2	MHBS605250*R#
25	35	50	57,5	1,2	52,5	20,3	23	575	**23,5**	19	13,5	3,6	MHBS605250*RSD
25	35	50	57,5	See lugs drawing			23	575	**25,5**	21	15	3,4	MHBS605250*YY

[1] at f=10kHz÷60kHz, Irms rating for Δt/Ta (Ta= T ambient.)= +15°C 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%

[2] typical value at f=10kHz÷60kHz; for operating frequency out of the 10kHz÷60kHz 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" symbol with the desired lug style

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

MHBS (MHB version S) *NEW in progress*

Metallized polypropylene film capacitor
MKP - Switching - High current
2/4 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

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
0,68	11	20	32	0,8	27,5	-	61	41,5	**4**	3	2,5	21	MHBS703680*H#
1	13	22	32	1,0	27,5	-	61	61	**5**	4	3	16,5	MHBS704100*H#
1,5	15	24,5	32	1,0	27,5	-	61	91,5	**6**	5	3,5	12,9	MHBS704150*H#
2	18	33	32	1,2	27,5	-	61	122	**8**	6,5	4,5	10,8	MHBS704200*H#
2,2	18	33	32	1,2	27,5	-	61	134,2	**8**	6,5	4,5	10,3	MHBS704220*H#
2,2	14	25	42,5	1,2	37,5	-	41	90,2	**7**	5,5	4	12,4	MHBS704220*J#
2,5	18	33	32	1,2	27,5	-	61	152,5	**8,5**	7	5	9,5	MHBS704250*H#
3	18	33	32	1,2	27,5	-	61	183	**9**	7,5	5,5	8,5	MHBS704300*H#
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			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			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	5,7	MHBS705120*R#
12	30	45	57,5	1,2	52,5	20,3	28	336	**18**	14,5	10,5	5,1	MHBS705120*RSD
12	30	45	57,5	See lugs drawing			28	336	**19,5**	15,5	11	4,9	MHBS705120*YY
15	30	45	57,5	1,2	52,5	-	28	420	**14**	14	10	5,1	MHBS705150*R#
15	30	45	57,5	1,2	52,5	20,3	28	420	**19**	15,5	11	4,5	MHBS705150*RSD
15	30	45	57,5	See lugs drawing			28	420	**21**	17	12	4,3	MHBS705150*YY
20	35	50	57,5	1,2	52,5	-	28	560	**14**	14	12	4,4	MHBS705200*R#
20	35	50	57,5	1,2	52,5	20,3	28	560	**22,5**	18,5	13	3,8	MHBS705200*RSD
20	35	50	57,5	See lugs drawing			28	560	**25**	20	14,5	3,6	MHBS705200*YY

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