

# MHBS

## Boxed Metallized polypropylene film



### Features

- Metallized polypropylene
- High capacitance
- Small size
- Low self inductance
- Low ESR
- High Voltage

### Applications

- Switching Power supplies
- DC Link
- UPS
- Solar Heaters
- Motor speed controls
- Power converters

### Specifications

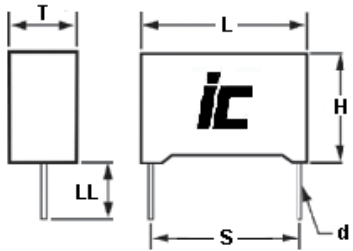
Operating Temperature Range		-40°C to +100°C Above +85°C applied voltage must be de-rated by 1.5%/°C								
Capacitance Tolerance		±10% at 1 kHz, 25°C ±5% optional								
Surge Voltage	VDC	85°C	575	700	800	900	1000	1100	1275	
		70°C	630	770	880	1000	1100	1200	1400	
	Repetitive SVDC	85°C	660	805	920	1035	1150	1265	1465	
		70°C	720	885	1010	1150	1265	1380	1610	
	Non-repetitive SVDC	85°C	750	910	1040	1170	1300	1430	1655	
		70°C	815	1000	1140	1300	1430	1560	1820	
Repetitive SVDC: Maximum repetitive voltage for 1 hour Max/Day										
AC voltage	VDC		575	700	800	900	1000	1100	1275	
	VAC	85°C	240	285	315	350	400	420	440	
		70°C	250	300	330	370	420	440	460	
Dissipation Factor (MAX) Tan δ at 1 kHz and 25°C			C ≤ 4uF	4uF < C ≤ 12uF	12uF < C ≤ 20uF	20uF < C ≤ 40uF	40uF < C ≤ 75uF	C > 75uF		
RMS current			No RMS current is to be applied at temperatures > +95°C							
Ripple current			See standard part listing, No ripple current is to be applied when the ambient temperature is ≥ +95°C							
Insulation Resistance			3000 MΩxμF (10000 MΩxμF typical) "Not to exceed 3GΩ" After 1 minute of 100VDC applied between the terminals at 25°C							
Self Inductance			<1 nano-Henry per mm of lead spacing and lead length							
Long term stability			Capacitance variation <1% MAX after 2 years							
Dielectric Strength			Terminal to Terminal				Terminal to case			
			150% of VDC or 150% of VAC applied for 10 Seconds and 25°C				3KVAC at 50/60 Hz applied between the terminals and case for 60 Seconds and 25°C			



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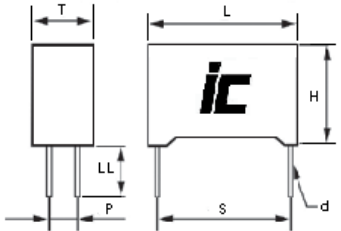
Life Expectancy	$\geq 60000$ with VAC, $\geq 200000$ With WVDC applied at +70°C $\geq 30000$ with VAC, $\geq 100000$ With WVDC applied at +85°C $\geq 10000$ with 0.8xVAC, $\geq 30000$ With 0.8xWVDC applied at +100°C	
Failure quota	300/billion component hours	
Damp Heat Test	Test Condition	Performance requirements
	Temperature= +40°C $\pm 2^\circ\text{C}$	Capacitance Change $\leq \pm 3\%$
	Relative Humidity=93 $\pm 2\%$	DF Change $\leq 200\%$ of initially specified valued
	Test length= 56 days	Insulation Resistance $\geq 50\%$ of minimum specified value
Resistance to soldering Heat Solder bath temperature: +260°C +/- 5°C Exposure time: 10 seconds +/- 1 second	Max Capacitance change	$\leq 1\%$ of initially measured value
	DF Change	$\leq .1\%$ at 1kHz
	Insulation resistance	$\geq 50\%$ of minimum specified value
Construction	Metallized Polypropylene film	
Electrodes	Vacuum deposited Metal layers	
Coating	Flame retardant Solvent resistant plastic case with epoxy end fill	
Lead terminations	Lead free tinned copper leads	

### Lead styles



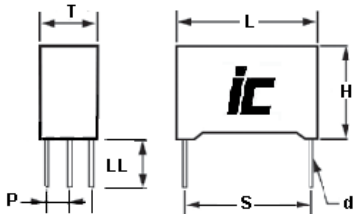
#### 2 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Length (LL)	5mm +/-1 mm			



#### 4 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Spacing (P)	See part listing			
Lead Length (LL)	5mm +/-1 mm			

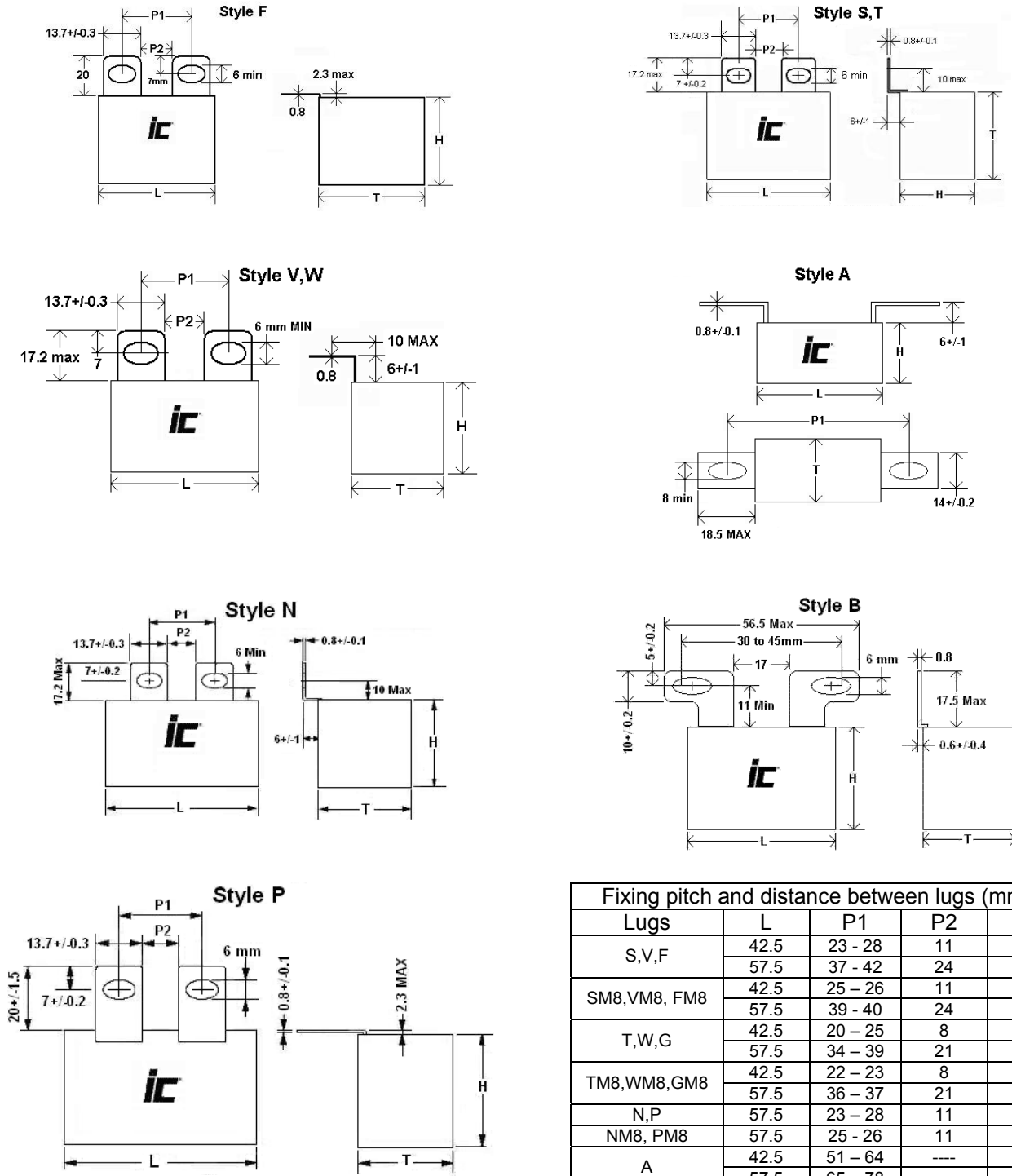


#### 6 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Spacing (P)	See part listing			
Lead Length (LL)	5mm +/-1 mm			



**Lug leads**



Fixing pitch and distance between lugs (mm)				
Lugs	L	P1	P2	S
S,V,F	42.5	23 - 28	11	6
	57.5	37 - 42	24	6
SM8,VM8, FM8	42.5	25 - 26	11	8
	57.5	39 - 40	24	8
T,W,G	42.5	20 - 25	8	6
	57.5	34 - 39	21	6
TM8,WM8,GM8	42.5	22 - 23	8	8
	57.5	36 - 37	21	8
N,P	57.5	23 - 28	11	6
NM8, PM8	57.5	25 - 26	11	8
A	42.5	51 - 64	----	8
	57.5	65 - 78	---	8
B	42.5	32 - 45	17	6

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Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
0.68	1275	684MHBS70K2H	61	4	3	2.5	22.5	32x20x11	27.5	-	0.8	2
1	1275	105MHBS70K2H	61	5	4	3	17.6	32x22x13	27.5	-	1	2
1.2	1100	125MHBS60K2H	50	4.5	3.5	2.5	17.5	32x20x11	27.5	-	0.8	2
1.5	1000	155MHBS55K2H	47	4.5	3.5	2.5	17.2	32x20x11	27.5	-	0.8	2
1.5	1100	155MHBS60K2H	50	5	4	3	15.3	32x22x13	27.5	-	1	2
1.5	1275	155MHBS70K2H	61	6	5	3.5	13.8	32x24.5x15	27.5	-	1	2
2	1000	205MHBS55K2H	47	5.5	4.5	3	14	32x22x13	27.5	-	1	2
2	1100	205MHBS60K2H	50	6	5	3.5	12.9	32x24.5x15	27.5	-	1	2
2	1275	205MHBS70K2H	61	8	6.5	4.5	11.5	32x33x18	27.5	-	1.2	2
2.2	1100	225MHBS60K2H	50	6	5	3.5	12.2	32x24.5x15	27.5	-	1	2
2.2	1275	225MHBS70K2H	61	8	6.5	4.5	10.8	32x33x18	27.5	-	1.2	2
2.2	1275	225MHBS70K2J	41	7	5.5	4	12.5	42.5x25x14	37.5	-	1.2	2
2.2	800	225MHBS45K2H	36	4.5	4	3	15	32x20x11	27.5	-	0.8	2
2.2	900	225MHBS50K2H	41.5	5.5	4.5	3	14	32x22x13	27.5	-	1	2
2.5	1000	255MHBS55K2H	47	6	5	3.5	12.5	32x24.5x15	27.5	-	1	2
2.5	1100	255MHBS60K2H	50	7	5.5	4	10.7	32x28x14	27.5	-	1.2	2
2.5	1275	255MHBS70K2H	61	8.5	7	5	9.7	32x33x18	27.5	-	1.2	2
2.5	700	255MHBS40K2H	31	5	4	3	15.2	32x20x11	27.5	-	0.8	2
2.5	900	255MHBS50K2H	41.5	5.5	4.5	3	13	32x22x13	27.5	-	1	2
3	1000	305MHBS55K2H	47	7	5.5	4	11	32x28x14	27.5	-	1.2	2
3	1100	305MHBS60K2J	34	7	5.5	4	11.8	42x25x14	37.5	-	1.2	2
3	1275	305MHBS70K2H	61	9	7.5	5.5	8.6	32x33x18	27.5	-	1.2	2
3	1275	305MHBS70K2H	61	9	7.5	5.5	8.6	32x33x18	27.5	-	1.2	2
3	1275	305MHBS70K2J	41	8	6.5	5	10.1	42.5x28x17	37.5	-	1.2	2
3	1275	305MHBS70KJ##	41	9.5	7.5	5.5	9.3	42.5x28x17	-	-	-	LUGS
3	800	305MHBS45K2H	36	5.5	4.5	3.5	12.2	32x22x13	27.5	-	1	2
3	900	305MHBS50K2H	41.5	6.5	5	3.5	11.7	32x24.5x15	27.5	-	1	2
3.3	1100	335MHBS60K2H	50	8.5	7	5	9.2	32x33x18	27.5	-	1.2	2
3.3	1275	335MHBS70K2H	61	10	8	6	8.1	32x37x22	27.5	-	1.2	2
3.3	1275	335MHBS70K2J	41	9	7.5	5.5	9.6	42.5x30x22	37.5	-	1.2	2
3.3	1275	335MHBS70K4H	61	11.5	9	6	7.5	32x37x22	27.5	10.2	1.2	4
3.3	1275	335MHBS70KJ##	41	10.5	8.5	6	8.8	42.5x30x22	-	-	-	LUGS
3.3	575	335MHBS35K2H	27	5	4	3	14.5	32x20x11	27.5	-	0.8	2
3.3	700	335MHBS40K2H	31	5.5	4.5	3.5	12.7	32x22x13	27.5	-	1	2
3.3	900	335MHBS50K2H	41.5	7	5.5	4	10.7	32x28x14	27.5	-	1.2	2
4	1000	405MHBS55K2J	31	7.5	6	4	11	42.5x25x14	37.5	-	1.2	2
4	1100	405MHBS60K2H	50	9	7.5	5.5	8.1	32x33x18	27.5	-	1.2	2
4	1100	405MHBS60K2J	34	8.5	6.5	4.5	9.9	42.5x28x17	37.5	-	1.2	2
4	1100	405MHBS60K4H	50	10	8	5.5	7.5	32x33x18	27.5	-	1.2	4
4	1100	405MHBS60KJ##	34	9.5	7.5	5.5	9.1	42.5x28x17	-	-	LUGS	LUGS
4	1275	405MHBS70K2H	61	11	9	6.5	7.1	32x37x22	27.5	-	-	2

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



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Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A) +70°C **			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
4	1275	405MHBS70K2J	41	10	8	6	8.7	42.5x30x22	37.5	-	1.2	2
4	1275	405MHBS70K4H	61	12.5	10	6.5	6.5	32x37x22	27.5	10.2	1.2	4
4	1275	405MHBS70KJ##	41	11.5	9	6.5	7.9	42.5x30x22	-	-	-	LUGS
4	800	405MHBS45K2H	36	6.5	5.5	4	10.2	32x24.5x15	27.5	-	1	2
4.7	1000	475MHBS55K2H	47	9	7	5	8.3	32x33x18	27.5	-	1.2	2
4.7	1000	475MHBS55K2J	31	8.5	7	5	9.6	42.5x28x17	37.5	-	1.2	2
4.7	1000	475MHBS55K4H	47	10	8	5	7.7	32x33x18	27.5	5.1	1.2	4
4.7	1000	475MHBS55KJ##	31	9.5	8	5.5	8.7	42.5x28x17	-	-	-	LUGS
4.7	1100	475MHBS60K2H	50	10.5	8.5	6	7.4	32x37x22	27.5	-	1.2	2
4.7	1100	475MHBS60K2J	34	10	8	5.5	8.3	42.5x30x22	37.5	-	1.2	2
4.7	1100	475MHBS60K4H	50	12	9.5	6.5	6.8	32x37x22	27.5	10.2	1.2	4
4.7	1100	475MHBS60KJ##	34	11.5	9.5	6.5	7.5	42.5x30x22	-	-	-	LUGS
4.7	1275	475MHBS70K2J	41	10.5	8.5	6.5	7.9	42.5x33.5x22	37.5	-	1.2	2
4.7	1275	475MHBS70K4J	41	12	9.5	7	7.3	42.5x33.5x22	37.5	5.1	1.2	4
4.7	1275	475MHBS70KJ##	41	12.5	10	7	7.1	42.5x33.5x22	-	-	-	LUGS
4.7	575	475MHBS35K2H	27	6	5	3.5	11.3	32x22x13	27.5	-	1	2
4.7	700	475MHBS40K2H	31	6.5	5.5	4	10.5	32x24.5x15	27.5	-	1	2
4.7	900	475MHBS50K2H	41.5	8.5	6.5	5	8.9	32x33x18	27.5	-	1.2	2
4.7	900	475MHBS50K2J	28	7.5	6	4	10.6	42.5x25x14	37.5	-	1.2	2
5	1000	505MHBS55K2H	47	9	7	5	8	32x33x18	27.5	-	1.2	2
5	1000	505MHBS55K2J	31	8.5	7	5	9.3	42.5x28x17	37.5	-	1.2	2
5	1000	505MHBS55K4H	47	10	8	5.5	7.4	32x33x18	27.5	5.1	1.2	4
5	1000	505MHBS55KJ##	31	10	8	5.5	8.5	42.5x28x17	-	-	-	LUGS
5	1100	505MHBS60K2H	50	10.5	8.5	6	7.2	32x37x22	27.5	-	1.2	2
5	1100	505MHBS60K2J	34	10	8	5.5	8.1	42.5x30x22	37.5	-	1.2	2
5	1100	505MHBS60K4H	50	12	9.5	6.5	6.6	32x37x22	27.5	10.2	1.2	4
5	1100	505MHBS60KJ##	34	11.5	9.5	6.5	7.3	42.5x30x22	-	-	-	LUGS
5	1275	505MHBS70K2J	41	10.5	8.5	6.5	7.7	42.5x33.5x22	37.5	-	1.2	2
5	1275	505MHBS70K4J	41	12	9.5	7	7.1	42.5x33.5x22	37.5	5.1	1.2	4
5	1275	505MHBS70KJ##	41	12.5	10	7	6.9	42.5x33.5x22	-	-	-	LUGS
5	575	505MHBS35K2H	27	6	5	3.5	10.8	32x22x13	27.5	-	1	2
5	700	505MHBS40K2H	31	7	5.5	4	9.7	32x24.5x15	27.5	-	1.2	2
5	800	505MHBS45K2H	36	8.5	6.5	4.5	10.5	32x28x14	27.5	-	1.2	2
5	800	505MHBS45K2J	24	7.5	6	4	10.3	42.5x25x14	37.5	-	1.2	2
6	900	605MHBS50K2H	41.5	9.5	7.5	5.5	7.6	32x33x18	27.5	-	1.2	2
6	900	605MHBS50K2J	42.5	9	7	5	9.2	42.5x28x17	37.5	-	1.2	2
6	900	605MHBS50K4H	41.5	10.5	8.5	6	7	32x33x18	27.5	5.1	1.2	4
6	900	605MHBS50KJ##	28	10.5	8.5	6	8.4	42.5x28x17	-	-	-	LUGS
6.8	1000	685MHBS55K2H	47	11	8.5	6	6.9	32x37x22	27.5	-	1.2	2
6.8	1000	685MHBS55K2J	31	10	8	6	7.9	42.5x30x22	37.5	-	1.2	2
6.8	1000	685MHBS55K4H	47	12.5	10	6.5	6.3	32x37x22	27.5	10.2	1.2	4
6.8	1000	685MHBS55KJ##	31	12	9.5	7	7.1	42.5x30x22	-	-	-	LUGS

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



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Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				+70°C **								
				Δ15°C	Δ10°C	Δ5°C						
6.8	1100	685MHBS60K2J	34	11	9	6.5	6.9	42.5x33.5x22	37.5	-	1.2	2
6.8	1100	685MHBS60K4J	34	12.5	10	7	6.3	42.5x33.5x22	37.5	5.1	1.2	4
6.8	1000	685MHBS55K2H	47	11	8.5	6	6.9	32x37x22	27.5	-	1.2	LUGS
6.8	1000	685MHBS55K2J	31	10	8	6	7.9	42.5x30x22	37.5	-	1.2	2
6.8	1000	685MHBS55K4H	47	12.5	10	6.5	6.3	32x37x22	27.5	10.2	1.2	4
6.8	1000	685MHBS55KJ##	31	12	9.5	7	7.1	42.5x30x22	-	-	-	LUGS
6.8	1100	685MHBS60K2J	34	11	9	6.5	6.9	42.5x33.5x22	37.5	-	1.2	2
6.8	1100	685MHBS60K4J	34	12.5	10	7	6.3	42.5x33.5x22	37.5	5.1	1.2	2
6.8	1100	685MHBS60KJ##	34	13.5	11	7.5	6.1	42.5x33.5x22	-	-	-	2
6.8	1275	685MHBS70K2JA	41	13	10.5	7.5	6.5	41.5x44x24	37.5	-	1.2	4
6.8	1275	685MHBS70K4JA	41	15	12	8	5.9	41.5x44x24	37.5	10.2	1.2	LUGS
6.8	1275	685MHBS70KJA##	41	16	13	9	5.7	41.5x44x24	-	-	-	2
6.8	575	685MHBS35K2H	27	7	5.5	4	9.3	32x24.5x15	27.5	-	1	4
6.8	800	685MHBS45K2H	36	9.5	7.5	5.5	7.6	32x33x18	27.5	-	1.2	LUGS
7.5	1000	755MHBS55K2J	31	11	8.5	6.5	7.4	42.5x33.5x22	37.5	-	1.2	2
7.5	1000	755MHBS55K4J	31	12	9.5	7	6.8	42.5x33.5x22	37.5	5.1	1.2	2
7.5	1000	755MHBS55KJ##	31	13	10.5	7.5	6.6	42.5x33.5x22	-	-	-	4
7.5	1100	755MHBS60K2J	34	11.5	9.5	6.5	6.6	42.5x33.5x22	37.5	-	1.2	LUGS
7.5	1100	755MHBS60K4J	34	13	10.5	7.5	6	42.5x33.5x22	37.5	10.2	1.2	2
7.5	1100	755MHBS60KJA##	34	14	11.5	8	5.8	41.5x40x20	-	-	-	2
7.5	1275	755MHBS70K2J	41	13	10.5	7.5	6.1	42.5x37x28	37.5	-	1.2	2
7.5	1275	755MHBS70K2JA	41	13.5	11	8	6.1	41.5x44x24	37.5	-	1.2	2
7.5	1275	755MHBS70K4JA	41	15.5	12.5	8.5	5.5	41.5x44x24	37.5	10.2	1.2	4
7.5	1275	755MHBS70KJA##	41	16	13	9	5.3	42.5x37x28	-	-	-	LUGS
7.5	575	755MHBS35K2H	27	8	6	4.5	8.3	32x28x14	27.5	-	1.2	2
7.5	700	755MHBS40K2J	21	7.5	6	4.5	9.2	42.5x25x14	37.5	-	1.2	2
7.5	800	755MHBS45K2H	36	10	8	5.5	7.1	32x33x18	27.5	-	1.2	4
7.5	800	755MHBS45K2J	24	9	7.5	5	8.3	42.5x28x17	37.5	-	1.2	LUGS
7.5	800	755MHBS45K4H	36	11	9	6	6.5	32x33x18	27.5	5.1	1.2	2
7.5	800	755MHBS45KJ##	24	10.5	8.5	6	7.5	42.5x28x17	-	-	-	4
7.5	900	755MHBS50K2H	41.5	11	9	6	6.9	32x37x22	27.5	-	1.2	LUGS
7.5	900	755MHBS50K2J	28	10	8	5.5	8	42.5x30x22	37.5	-	1.2	2
7.5	900	755MHBS50K4H	41.5	12	9.5	6.5	6.3	32x37x22	27.5	10.2	1.2	4
7.5	900	755MHBS50KJ##	28	12.5	10	7	7.2	42.5x30x22	-	-	-	2
9	1000	905MHBS55K2JA	31	12	9.5	7	6.6	41.5x40x20	37.5	-	1.2	2
9	1000	905MHBS55K4JA	31	14	11	7.5	6	41.5x40x20	37.5	10.2	1.2	4
9	1000	905MHBS55KJA##	31	15	12	8	5.8	41.5x40x20	-	-	-	4
10	1000	106MHBS55K2JA	31	13	10.5	7.5	6.3	41.5x40x20	37.5	-	1.2	LUGS
10	1000	106MHBS55K4JA	31	14.5	11.5	8	5.7	41.5x40x20	37.5	10.2	1.2	2
10	1100	106MHBS60K2JA	34	14	11.5	8	5.5	41.5x44x24	37.5	-	1.2	4
10	1100	106MHBS60K2JA	34	14	11	8	5.5	42.5x37x28	37.5	-	1.2	LUGS
10	1100	106MHBS60K4JA	34	16	13	9	4.9	41.5x44x24	37.5	10.2	1.2	2

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



# MHBS

Boxed metalized polypropylene film

Capacitance (μF)	WVDC	IC Part number	dv/dt (μS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
10	1100	106MHBS60K4JA	34	15.5	12	8.5	4.9	42.5x37x28	37.5	10.2	1.2	2
10	1100	106MHBS60KJA##	34	17	13.5	9.5	4.7	41.5x44x24	-	-	-	4
10	1275	106MHBS70K2J	41	14	13	9	5.1	42.5x45x30	37.5	-	1.2	2
10	1275	106MHBS70K4J	41	17.5	14	10	4.5	42.5x45x30	37.5	20.3	1.2	4
10	1275	106MHBS70KJ##	41	19	15.5	11	4.3	42.5x45x30	-	-	-	LUGS
10	575	106MHBS35K2H	27	10	8	5.5	7	32x33x18	27.5	-	1.2	2
10	700	106MHBS40K2H	31	11	8.5	6	6.7	32x33x18	27.5	-	1.2	2
10	700	106MHBS40K4H	31	12	9.5	6.5	6	32x33x18	27.5	5.1	1.2	4
10	800	106MHBS45K2H	36	11.5	9.5	6.5	5.9	32x37x22	27.5	-	1.2	2
10	800	106MHBS45K2J	24	10.5	8.5	6	7	42.5x30x22	37.5	-	1.2	2
10	800	106MHBS45K4H	24	13	10	7.5	5.3	32x37x22	27.5	10.2	1.2	4
10	800	106MHBS45K4J	24	11.5	9	6.5	6.4	42.5x30x22	37.5	5.1	1.2	4
10	800	106MHBS45KJ##	24	12.5	10	7.5	6.2	42.5x30x22	-	-	-	LUGS
10	900	106MHBS50K2J	28	11.5	9	6.5	6.8	42.5x33.5x22	37.5	-	1.2	2
10	900	106MHBS50K4J	28	13	10.5	7.5	6.2	42.5x33.5x22	37.5	5.1	1.2	4
10	900	106MHBS50KJ##	28	13.5	11	8	6	42.5x33.5x22	37.5	-	-	LUGS
12	1000	126MHBS55K2J	31	13.5	11	8	5.7	42.5x37x28	37.5	-	1.2	2
12	1000	126MHBS55K2JA	31	14	11	8	5.7	41.5x44x24	37.5	-	1.2	2
12	1000	126MHBS55K4J	31	15	12	8.5	5.1	42.5x37x28	37.5	10.2	1.2	4
12	1000	126MHBS55K4JA	31	16	13	8.5	5.1	41.5x44x24	37.5	10.2	1.2	4
12	1000	126MHBS55KJA##	31	16.5	13	9.5	4.9	41.5x44x24	37.5	-	1.2	LUGS
12	1100	126MHBS60K2J	34	14	13	9	5	42.5x45x30	37.5	-	1.2	2
12	1100	126MHBS60K4J	34	17.5	14	10	4.4	42.5x45x30	37.5	20.3	1.2	4
12	1100	126MHBS60KJ##	34	19.5	15.5	11	4.2	42.5x45x30	-	-	-	LUGS
12	1275	126MHBS70K2R	28	14	13.5	9.5	6	57.5x45x30	52.5	-	1.2	2
12	1275	126MHBS70K4R	28	17.5	14.5	10	5.4	57.5x45x30	52.5	20.3	1.2	4
12	1275	126MHBS70KR##	28	19.5	15.5	11	5.2	57.5x45x30	-	-	-	LUGS
12	575	126MHBS35K2H	27	11	8.5	6	6.2	32x33x18	27.5	-	1.2	2
12	575	126MHBS35K2J	19	9.5	8	5.5	7.2	42.5x28x17	37.5	-	1.2	2
12	575	126MHBS35K4H	27	12	9.5	6.5	5.5	32x33x18	27.5	5.1	1.2	4
12	575	126MHBS35KJ##	19	11	9	6.5	6.4	42.5x28x17	-	-	-	LUGS
12	700	126MHBS40K2H	31	12	9.5	7	5.8	32x37x22	27.5	-	1.2	2
12	700	126MHBS40K2J	21	11	9	6.5	6.4	42.5x30x22	37.5	-	1.2	2
12	700	126MHBS40K4H	31	13.5	11	7.5	5.2	32x37x22	27.5	10.2	1.2	4
12	700	126MHBS40KJ##	21	13.5	11	8	5.6	42.5x30x22	-	-	-	LUGS
12	800	126MHBS45K2J	24	12	9.5	6.5	6.4	42.5x33.5x22	37.5	-	1.2	2
12	800	126MHBS45K4J	24	13	10.5	7.5	5.8	42.5x33.5x22	37.5	5.1	1.2	4
12	800	126MHBS45KJ##	24	14	11	8	5.6	42.5x33.5x22	-	-	-	LUGS
12	900	126MHBS50K2JA	28	12.5	10.5	7	6.3	41.5x40x20	37.5	-	1.2	2
12	900	126MHBS50K4JA	28	13.5	11	7.5	5.7	41.5x40x20	37.5	10.2	1.2	4
12	900	126MHBS50KJA##	28	14.5	12	8.5	5.5	41.5x40x20	-	-	-	LUGS
15	1000	156MHBS55K2J	31	14	13	9	5	42.5x45x30	37.5	-	1.2	2

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



# MHBS

Boxed metalized polypropylene film

Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
15	1000	156MHBS55K4J	31	17.5	14	10	4.4	42.5x45x30	37.5	20.3	1.2	4
15	1000	156MHBS55KJ##	31	19.5	15.5	11	4.2	42.5x45x30	37.5	-	-	LUGS
15	1275	156MHBS70K2R	28	14	14	10	5.4	57.5x45x30	52.5	-	1.2	2
15	1275	156MHBS70K4R	28	18.5	15	10.5	4.8	57.5x45x30	52.5	20.3	1.2	4
15	1275	156MHBS70KR##	28	20.5	17	11.5	4.6	57.5x45x30	-	-	-	LUGS
15	575	156MHBS35K2H	27	12	9.5	7	5.6	32x37x22	27.5	-	1.2	2
15	575	156MHBS35K2J	19	11	9	6.5	6.4	42.5x30x22	37.5	-	1.2	2
15	575	156MHBS35K4H	27	13.5	11	7.5	4.9	32x37x22	27.5	10.2	1.2	4
15	575	156MHBS35KJ##	19	14	11	8.5	5.6	42.5x30x22	-	-	-	LUGS
15	700	156MHBS40K2J	21	12.5	10	7	5.5	42.5x33.5x22	37.5	-	1.2	2
15	700	156MHBS40K4J	21	14	11	8	4.9	42.5x33.5x22	37.5	5.1	1.2	4
15	700	156MHBS40KJ##	21	15	12	8.5	4.7	42.5x33.5x22	-	-	-	LUGS
15	800	156MHBS45K2JA	24	13	10.5	7.5	5.6	41.5x40x20	37.5	-	1.2	2
15	800	156MHBS45K4JA	24	15	12	8.5	5	41.5x40x20	37.5	10.2	1.2	4
15	900	156MHBS50K2J	28	14	11.5	8	5.3	42.5x37x28	37.5	-	1.2	2
15	900	156MHBS50K2JA	28	14	11.5	8.5	5.3	41.5x44x24	37.5	-	1.2	2
15	900	156MHBS50K4J	28	15.5	12.5	9	4.7	42.5x37x28	37.5	10.2	1.2	4
15	900	156MHBS50K4JA	28	16.5	13	9	4.7	41.5x44x24	37.5	10.2	1.2	4
15	900	156MHBS50KJ##	28	17	13.5	10	4.5	42.5x37x28	-	-	-	LUGS
15	900	156MHBS50KJA##	28	17.5	14	10	4.5	41.5x44x24	-	-	-	LUGS
20	1100	206MHBS60K2R	23	14	14	10.5	4.8	57.5x45x30	52.5	-	1.2	2
20	1100	206MHBS60K4R	23	20	16	11.5	4.2	57.5x45x30	52.5	20.3	1.2	4
20	1100	206MHBS60KR##	23	22	18	12.5	4	57.5x45x30	-	-	-	LUGS
20	1275	206MHBS70K2R	28	14	14	12	4.6	57.5x50x35	52.5	-	1.2	2
20	1275	206MHBS70K4R	28	22	18	12.5	4	57.5x50x35	52.5	20.3	1.2	4
20	1275	206MHBS70KR##	28	24.5	20	14	3.8	57.5x50x35	-	-	-	LUGS
20	575	206MHBS35K2JA	19	13	10.5	7.5	5.6	41.5x40x20	37.5	-	1.2	2
20	575	206MHBS35K4JA	19	15	12	8.6	5	41.5x40x20	37.5	10.2	1.2	4
20	575	206MHBS35KJ##	19	16	13	9	4.8	41.5x40x20	-	-	-	LUGS
20	700	206MHBS40K2J	21	14	12	8.5	4.9	42.5x37x28	37.5	-	1.2	2
20	700	206MHBS40K4J	21	16.5	13	9.5	4.3	42.5x37x28	37.5	10.2	1.2	4
20	700	206MHBS40K4J	21	16.5	13.5	9.5	4	42.5x37x28	37.5	10.2	1.2	4
20	700	206MHBS40KJ##	21	18	14.5	10.5	4.1	42.5x37x28	-	-	-	LUGS
20	700	206MHBS40KJA##	21	18	14.5	10.5	4.1	42.5x37x28	-	-	-	LUGS
20	800	206MHBS45K2JA	24	14	12	8.5	4.8	41.5x44x24	37.5	-	1.2	2
20	800	206MHBS45K4JA	24	17	13.5	9.5	4.2	41.5x44x24	37.5	10.2	1.2	6
20	900	206MHBS50K2J	28	14	13.5	9.5	4.5	42.5x45x30	37.5	-	1.2	2
20	900	206MHBS50K4J	28	18.5	15	10.5	3.9	42.5x45x30	37.5	20.3	1.2	4
20	900	206MHBS50KJ##	28	20.5	16.5	11.5	3.7	42.5x45x30	37.5	-	-	LUGS
22	1000	226MHBS55K2R	21	14	14	10.5	5.1	57.5x45x30	52.5	-	1.2	2
22	1000	226MHBS55K4R	21	19.5	15.5	11	4.5	57.5x45x30	52.5	20.3	1.2	4
22	1000	226MHBS55KR##	21	21	17	12	4.3	57.5x45x30	52.5	-	-	LUGS

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5





# MHBS

Boxed metalized polypropylene film

Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
22	1100	226MHBS60K2R	23	14	14	12	4.6	57.5x50x35	52.5	-	1.2	2
22	1100	226MHBS60K4R	23	22	18	12.5	4	57.5x50x35	52.5	20.3	1.2	4
22	1100	226MHBS60KR##	23	24.5	20	14	3.8	57.5x50x35	-	-	-	LUGS
22	700	226MHBS40K2J	21	14	12	8.5	4.6	42.5x37x28	37.5	-	1.2	2
22	700	226MHBS40K2JA	21	14	12.5	9	4.6	41.5x44x24	37.5	-	1.2	2
22	700	226MHBS40K4JA	21	17.5	14	10	4	41.5x44x24	37.5	10.2	1.2	4
22	700	226MHBS40K4J	21	16.5	13.5	9.5	4	42.5x37x28	37.5	10.2	1.2	4
22	700	226MHBS40KJ##	21	18.5	15	10.5	3.8	42.5x37x28	-	-	-	LUGS
22	700	226MHBS40KJA##	21	18.5	15	10.5	3.8	41.5x44x24	-	-	-	LUGS
22	800	226MHBS45K2J	24	14	13.5	9.5	4.6	42.5x45x30	37.5	-	1.2	2
22	800	226MHBS45K4J	24	18.5	15	10.5	4	42.5x45x30	37.5	20.3	1.2	4
22	800	226MHBS45KJ##	24	20	16	11.5	3.8	42.5x45x30	-	-	-	LUGS
25	1100	256MHBS60K2R	23	14	14	12.5	4.4	57.5x50x35	52.5	-	1.2	2
25	1100	256MHBS60K4R	23	22.5	18.5	13	3.8	57.5x50x35	52.5	20.3	1.2	4
25	1100	256MHBS60KR##	23	25	20.5	14.5	3.6	57.5x50x35	52.5	-	-	LUGS
25	1275	256MHBS70K4R	28	23.5	19.5	13.5	3.6	57.5x57.5x38	52.5	20.3	1.2	4
25	1275	256MHBS70K6R	28	24.5	20	14	3.4	57.5x57.5x38	52.5	10.2	1.2	6
25	1275	256MHBS70KR##	28	26.5	21.5	15	3.4	57.5x57.5x38	-	-	-	LUGS
25	575	256MHBS35K2J	19	14	11.5	8.5	5	42.5x37x28	37.5	-	1.2	2
25	575	256MHBS35K4J	19	16	12.5	9	4.4	42.5x37x28	37.5	10.2	1.2	4
25	575	256MHBS35KJ##	19	17.5	14	10	4.2	42.5x37x28	-	-	-	LUGS
25	700	256MHBS40K2JA	21	14	13	9.5	4.3	41.5x44x24	37.5	-	1.2	2
25	700	256MHBS40K4JA	21	18	14.5	10.5	3.7	41.5x44x24	37.5	10.2	1.2	4
25	700	256MHBS40KJA##	21	19.5	15.5	11	3.5	41.5x44x24	-	-	-	LUGS
25	800	256MHBS45K2J	24	14	14	10	4.3	42.5x45x30	37.5	-	1.2	2
25	800	256MHBS45K4J	24	19	15.5	11	3.7	42.5x45x30	37.5	20.3	1.2	4
25	800	256MHBS45KJ##	24	21	17	12	3.5	42.5x45x30	-	-	-	LUGS
25	900	256MHBS50K2R	18.5	14	14	10	5.3	57.5x45x30	52.5	-	1.2	2
25	900	256MHBS50K4R	18.5	19	15.5	11	4.7	57.5x45x30	52.5	20.3	1.2	4
25	900	256MHBS50KR##	18.5	20	17	12	4.5	57.5x45x30	-	-	-	LUGS
30	1000	306MHBS55K2R	21	14	14	12	4.3	57.5x50x35	52.5	-	1.2	2
30	1000	306MHBS55K4R	21	22.5	18.5	13	3.8	57.5x50x35	52.5	20.3	1.2	4
30	1000	306MHBS55KR##	21	25	20.5	14.5	3.6	57.5x50x35	-	-	-	LUGS
30	575	306MHBS35K2J	19	14	12	8.5	4.6	42.5x37x28	37.5	-	1.2	2
30	575	306MHBS35K4J	19	16.5	13	9.5	4	42.5x37x28	37.5	10.2	1.2	4
30	575	306MHBS35KJ##	19	18.5	14.5	10.5	3.8	42.5x37x28	-	-	-	LUGS
30	700	306MHBS40K2J	21	14	14	10.5	4	42.5x45x30	37.5	-	1.2	2
30	700	306MHBS40K4J	21	20	16	11.5	3.4	42.5x45x30	37.5	20.3	1.2	4
30	700	306MHBS40KJ##	21	22	17.5	12.5	3.2	42.5x45x30	-	-	-	LUGS
30	800	306MHBS45K2R	16.5	14	14	10.5	4.9	57.5x45x30	52.5	-	1.2	2
30	800	306MHBS45K4R	16.5	19.5	16	11.5	4.3	57.5x45x30	52.5	20.3	1.2	4
30	800	306MHBS45KR##	16.5	21.5	17.5	12.5	4.1	57.5x45x30	-	-	-	LUGS

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



# MHBS

Boxed metalized polypropylene film

Capacitance (μF)	WVDC	IC Part number	dv/dt (μS)	Maximum RMS Current (A)			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
33	1000	336MHBS55K2R	21	14	14	12.5	4.1	57.5x50x35	52.5	-	1.2	2
33	1000	336MHBS55K4R	21	24	19	13.5	3.5	57.5x50x35	52.5	20.3	1.2	4
33	1100	336MHBS60K4R	23	24.5	20.5	14.5	3.3	57.5x57.5x38	52.5	20.3	1.2	4
33	1100	336MHBS60K6R	23	25.5	21	15	3.1	57.5x57.5x38	52.5	10.2	1.2	6
33	1100	336MHBS60KR##	23	27.5	22.5	16	3.1	57.5x57.5x38	52.5	10.2	1.2	LUGS
35	1100	356MHBS60K4R	23	25	20.5	14.5	3.2	57.5x57.5x38	52.5	20.3	1.2	4
33	1100	336MHBS60K6R	23	25.5	21	15	3.1	57.5x57.5x38	52.5	10.2	1.2	6
33	1100	336MHBS60KR##	23	27.5	22.5	16	3.1	57.5x57.5x38	52.5	10.2	1.2	LUGS
35	1100	356MHBS60K4R	23	25	20.5	14.5	3.2	57.5x57.5x38	52.5	20.3	1.2	4
35	1100	356MHBS60K6R	23	26	21.5	15	3	57.5x57.5x38	52.5	10.2	1.2	6
35	575	356MHBS35K2J	19	14	14	10	4.3	42.5x45x30	37.5	-	1.2	2
35	575	356MHBS35K4J	19	19	15.5	11	3.7	42.5x45x30	37.5	20.3	1.2	4
35	575	356MHBS35KJ##	19	21	16.5	12	3.5	42.5x45x30	-	-	-	LUGS
35	800	356MHBS45K2R	16.5	14	14	11	4.5	57.5x45x30	52.5	-	1.2	2
35	800	356MHBS45K4R	16.5	20.5	17	12	3.9	57.5x45x30	52.5	20.3	1.2	4
35	800	356MHBS45KR##	16.5	22.5	18.5	13	3.7	57.5x45x30	52.5	-	-	LUGS
35	900	356MHBS50K2R	18.5	14	14	12.5	4.2	57.5x50x35	52.5	-	1.2	2
35	900	356MHBS50K4R	18.5	23	19	13.5	3.6	57.5x50x35	52.5	20.3	1.2	4
35	900	356MHBS50KR##	18.5	26	21	15	3.4	57.5x50x35	-	-	0.8	LUGS
40	1000	406MHBS55K4R	21	25.5	20.5	14.5	3.2	57.5x57.5x38	52.5	20.3	1.2	4
40	1000	406MHBS55K6R	21	26.5	21.5	15	3	57.5x57.5x38	52.5	10.2	1.2	6
40	1000	406MHBS55KR##	21	28	23	16	3	57.5x57.5x38	52.5	-	-	LUGS
40	575	406MHBS35K2J	19	14	14	10.5	4	42.5x45x30	37.5	-	1.2	2
40	575	406MHBS35K4J	19	20	16	11.5	3.4	42.5x45x30	37.5	20.3	1.2	4
40	575	406MHBS35KJ##	19	22	17.5	12.5	3.2	42.5x45x30	-	-	-	LUGS
40	700	406MHBS40K2R	14.5	14	14	11	4.4	57.5x45x30	52.5	-	1.2	2
40	700	406MHBS40K4R	14.5	21	17	12	3.8	57.5x45x30	52.5	20.3	1.2	4
40	700	406MHBS40KR##	14.5	23	19	13.5	3.6	57.5x45x30	-	-	-	LUGS
40	800	406MHBS45K2R	16.5	14	14	12	4.2	57.5x50x35	52.5	-	1.2	2
40	800	406MHBS45K4R	16.5	23	19	13	3.6	57.5x50x35	52.5	20.3	1.2	4
40	800	406MHBS45KR##	16.5	25.5	21	15	3.4	57.5x50x35	-	-	-	LUGS
40	900	406MHBS50K2R	18.5	14	14	13	3.9	57.5x50x30	52.5	-	1.2	2
40	900	406MHBS50K4R	18.5	24	20	14	3.3	57.5x50x30	52.5	20.3	1.2	4
45	700	456MHBS40K2R	14.5	14	14	11.5	4.2	57.5x45x30	52.5	-	1.2	2
45	700	456MHBS40K4R	14.5	21.5	17.5	12.5	3.6	57.5x45x30	52.5	20.3	1.2	4
45	700	456MHBS40KR##	14.5	24	19.5	13.5	3.4	57.5x45x30	-	-	-	LUGS
45	800	456MHBS45K2R	16.5	14	14	12.5	4	57.5x50x35	52.5	-	1.2	2
45	800	456MHBS45K4R	16.5	23.5	19.5	13.5	3.4	57.5x50x35	52.5	20.3	1.2	4
45	800	456MHBS45KR##	16.5	26.5	21.5	15	3.2	57.5x50x35	-	-	-	LUGS
47	800	476MHBS45K2R	16.5	14	14	13	3.9	57.5x50x35	52.5	-	1.2	2
47	800	476MHBS45K4R	16.5	24	20	14	3.3	57.5x50x35	52.5	20.3	1.2	4
47	900	476MHBS50K4R	18.5	26	21.5	15	3	57.5x50x30	52.5	20.3	1.2	4

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5



# MHBS

Boxed metalized polypropylene film

Capacitance (µF)	WVDC	IC Part number	dv/dt (µS)	Maximum RMS Current (A) +70°C **			Typical ESR mΩ 25°C **	Dimensions LxHxT (mm)	S Lead spacing (mm)	P Lead spacing (mm)	d Lead Wire Diameter (mm)	Lead type
				Δ15°C	Δ10°C	Δ5°C						
47	900	476MHBS50K6R	18.5	27	22	15.5	2.8	57.5x57.5x38	52.5	10.2	1.2	6
47	900	476MHBS50KR##	18.5	29	23.5	16.5	2.8	57.5x57.5x38	-	-	-	LUGS
50	575	506MHBS35K2R	12.5	14	14	11	4.6	57.5x45x30	52.5	-	1.2	2
50	575	506MHBS35K4R	12.5	20.5	16.5	11.5	4	57.5x45x30	52.5	20.3	1.2	4
50	575	506MHBS35KR##	12.5	22.5	18.5	13	3.8	57.5x45x30	-	-	-	LUGS
50	700	506MHBS40K2R	14.5	14	14	12.5	4	57.5x50x35	52.5	-	1.2	2
50	700	506MHBS40K4R	14.5	23.5	19.5	13.5	3.4	57.5x50x35	52.5	20.3	1.2	4
50	700	506MHBS40KR##	14.5	26.5	21.5	15.5	3.2	57.5x50x35	-	-	-	LUGS
50	900	506MHBS50K4R	18.5	26	21.5	15	3	57.5x57.5x38	52.5	20.3	1.2	4
50	900	506MHBS50K6R	18.5	27.5	22.5	15.5	2.8	57.5x57.5x38	52.5	10.2	1.2	6
55	700	556MHBS40K2R	14.5	14	14	13	3.9	57.5x50x35	52.5	-	1.2	2
55	700	556MHBS40K4R	14.5	24	20	14	3.3	57.5x50x35	52.5	20.3	1.2	4
55	700	556MHBS40KR##	14.5	27	22	15.5	3.1	57.5x50x35	-	-	-	LUGS
60	575	606MHBS35K2R	12.5	14	14	11.5	4.2	57.5x45x30	52.5	-	1.2	2
60	575	606MHBS35K4R	12.5	21.5	17.5	12.5	3.6	57.5x45x30	52.5	20.3	1.2	4
60	575	606MHBS35KR##	12.5	25	20	14	3.4	57.5x50x35	-	-	-	LUGS
60	700	606MHBS40K2R	14.5	14	14	13.5	3.7	57.5x50x35	52.5	-	1.2	2
60	700	606MHBS40K4R	14.5	25	20.5	14.5	3.1	57.5x50x35	52.5	20.3	1.2	4
60	700	606MHBS40KR##	14.5	28	23	16	2.9	57.5x50x35	-	-	-	LUGS
60	800	606MHBS45K4R	16.5	26	21.5	15	3	57.5x57.5x38	52.5	20.3	1.2	4
60	800	606MHBS45K6R	16.5	27	22	15.5	2.8	57.5x57.5x38	52.5	10.2	1.2	6
60	800	606MHBS45KR##	16.5	29	23.5	16.5	2.8	57.5x57.5x38	-	-	-	LUGS
65	800	656MHBS45K4R	16.5	26	22	16	2.9	57.5x57.5x38	52.5	20.3	1.2	4
65	800	656MHBS45K6R	16.5	27.5	22.5	16	2.7	57.5x57.5x38	52.5	10.2	1.2	6
75	575	756MHBS35K2R	12.5	14	14	13	3.9	57.5x50x35	52.5	-	1.2	2
75	575	756MHBS35K4R	12.5	24	19.5	14	3.3	57.5x50x35	52.5	20.3	1.2	4
75	575	756MHBS35KR##	12.5	27	22	15.5	3.1	57.5x50x35	-	-	-	LUGS
75	700	756MHBS40K4R	14.5	26	21.5	15.5	2.9	57.5x57.5x38	52.5	20.3	1.2	4
75	700	756MHBS40K6R	14.5	27.5	22.5	16	2.7	57.5x57.5x38	52.5	10.2	1.2	6
75	700	756MHBS40KR##	14.5	29	24	17	2.7	57.5x57.5x38	-	-	-	LUGS
80	700	806MHBS40K4R	14.5	28	23	16	2.8	57.5x57.5x38	52.5	20.3	1.2	4
80	700	806MHBS40K6R	14.5	28	23	16	2.6	57.5x57.5x38	52.5	10.2	1.2	6
90	575	906MHBS35K4R	12.5	25.5	21	14.5	3.1	57.5x57.5x38	52.5	20.3	1.2	4
90	575	906MHBS35K6R	12.5	26.5	21.5	15	2.9	57.5x57.5x38	52.5	10.2	1.2	6
90	575	906MHBS35KR##	12.5	28.5	23	16	2.9	57.5x57.5x38	-	-	-	LUGS
100	575	107MHBS35K4R	12.5	26	21.5	15	3	57.5x57.5x38	52.5	20.3	1.2	4
100	575	107MHBS35K6R	12.5	27	22	15.5	2.8	57.5x57.5x38	52.5	10.2	1.2	6

\*\*f=10kHz-60kHz for S=27.5mm, F=10kHz-45kHz for S=37.5mm, f=10kHz-30kHz for S=52.5

