

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			

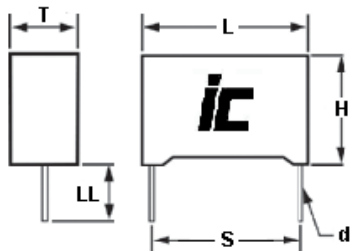


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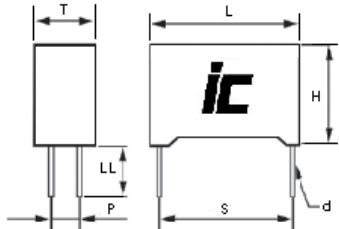
Life Expectancy	≥ 60000 with VAC, ≥ 200000 With WVDC applied at $+70^{\circ}\text{C}$ ≥ 30000 with VAC, ≥ 100000 With WVDC applied at $+85^{\circ}\text{C}$ ≥ 10000 with $0.8 \times \text{VAC}$, ≥ 30000 With $0.8 \times \text{WVDC}$ applied at $+100^{\circ}\text{C}$	
Failure quota	300/billion component hours	
Damp Heat Test	Test Condition	Performance requirements
	Temperature= $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$	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: $+260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 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



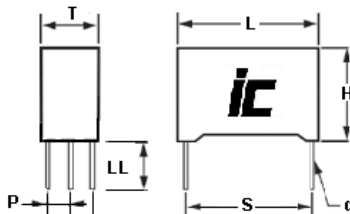
2 leads

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			

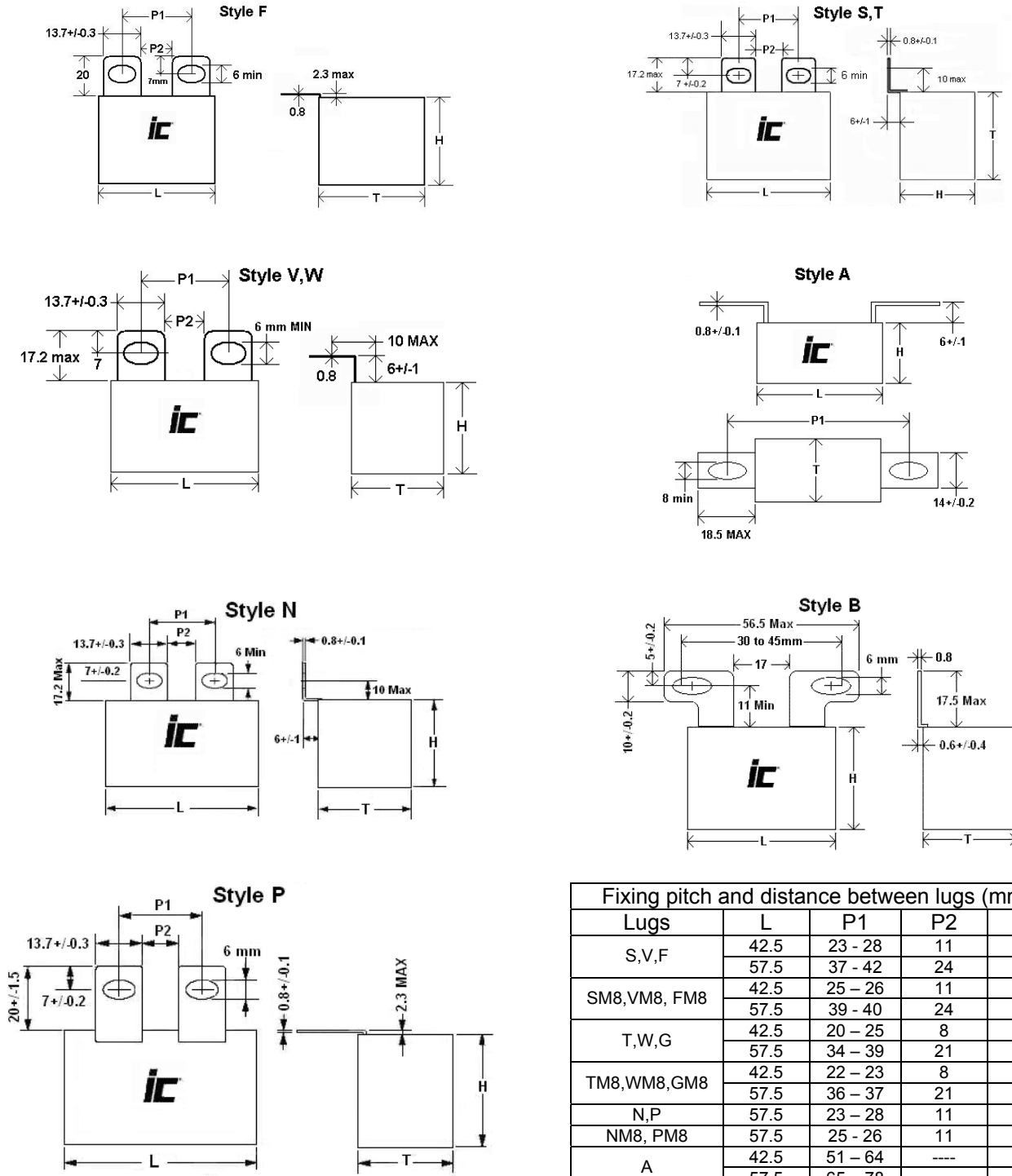


6 leads

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



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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

