

MAB

AC/Motor Run Film Capacitors



FEATURES

Good dvdt – High frequency electronic ballasts – Motor run – SMPS
Motor speed control

APPLICATIONS

General purpose AC application – Switching capacitor for industrial controls

Operating Temperature Range	40°C to +105°C without use of approvals Range -25°C to +85°C for use of approvals				
Capacitance Tolerance	±10% at 1 kHz, 20°C				
Rated Voltage	See Voltage Code Table. Voltage must be derated by 1.25% per °C exceeding 85°C.				
Self Inductance	<1 nano-Henry per mm of body length and lead length				
Dissipation Factor (max) at 20°C	Freq (kHz)	C≤2.2μF	2.2μF<C≤15μF	15μF<C≤22μF	C>22μF
	1	.06%	.1%	.12%	.14%
Insulation Resistance @20°C (<70% RH) for 1 minute at 100VDC	> 10,000MΩ x μF for C<1μF. > 3,000MΩ x μF for C≥1μF.				
Dielectric Strength	160% of rated VAC for 60 seconds at 20°C between leads. 200% of rated VAC for 60 seconds at 20°C between leads. for EN 60252-1 approval. 3KV at 60HZ for 60 seconds between leads and case.				
Self Inductance	<1nH/mm of lead spacing and lead wire length.				
Capacitance Drift	<1.0% up to 40°C after 2 years				
Temperature Coefficient	-200ppm/ °C +/- 100ppm/ °C				
Load Life Test Capacitance Change ≤3%	125% of rated voltage at +85°C				
	200 hrs. for Class D (1,000 hours expected life, continuous service) 600 hrs. for Class C (3,000 hours expected life, continuous service) 2,000 hrs. for Class B (10,000 hours expected life, continuous service) 6,000 hrs. for Class A (30,000 hours expected life, continuous service)				
Dielectric	Polypropylene				
Electrodes	Vacuum Deposited Metal Layers				
Construction	Metallized Film				
Leads	Solid or Stranded Tinned Copper Wire				
Coating	Solvent resistant plastic box (UL 94-V1) with epoxy fills (UL 94V-0)				

APPROVAL CODES

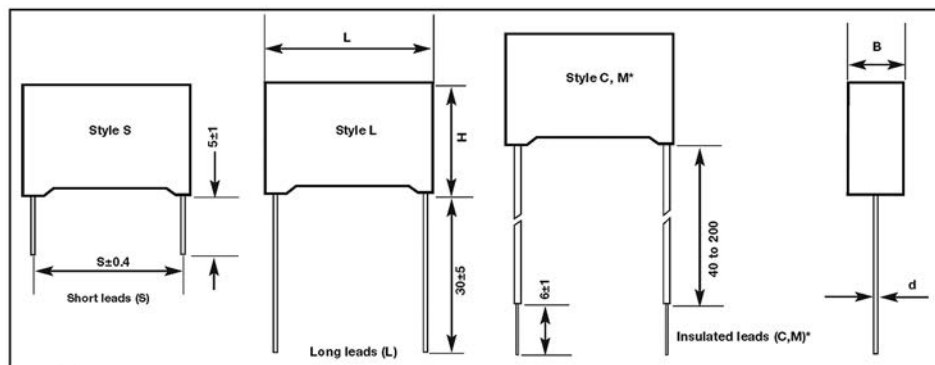
Voltage Code	WVDC/SVDC	VAC (50/60 Hz)	Agency Standard	Description	Approval Classification
A04	350/425	180	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class B
A04				10,000 hrs. Continuous Service	
A04				1,000 hrs. Continuous Service	
A03	475/550	250	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class B
A03				10,000 hrs. Continuous Service	
A03				1,000 hrs. Continuous Service	
A02	575/680	320	EN 60252-1	30,000 hrs. Continuous Service	Class A
A02				10,000 hrs. Continuous Service	
A02				1,000 hrs. Continuous Service	
A02				430	
A01	775/925	432	EN 60252-1	10,000 hrs. Continuous Service	Class B
A01				30,000 hrs. Continuous Service	
A01				3000 hrs. Continuous Service	
A01				UL 810/CSA 22.2	
A05	1150/1350	800	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class C
A05				3000 hrs. Continuous Service	
A05				10,000 hrs. Continuous Service	

TERMINAL STYLE SELECTION

S	5mm ± 1mm	Solid tinned copper leads
L	30mm ± 5mm	Solid tinned copper leads
C	Customer Specified	Insulated solid tinned copper leads
M	Customer Specified	Stranded insulated tinned copper wire

LEAD SPACING

L	26.5	32	39.5	42.5
S	22.5	27.5	35	37.5
d	0.8	0.8	0.8	1.0



*Not available for Case Sizes $26.5 \times 18.5 \times 10$

MAB

Radial leaded box

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.1	775	104MABA01KG#	120	26.5x16x7	22.5	0.8
0.1	1150	104MABA05KG#	175	26.5x16x7	22.5	0.8
0.12	775	124MABA01KG#	120	26.5x16x7	22.5	0.8
0.12	1150	124MABA05KG#	175	26.5x17x8.5	22.5	0.8
0.15	775	154MABA01KG#	120	26.5x17x8.5	22.5	0.8
0.15	1150	154MABA05KG#	175	26.5x17x8.5	22.5	0.8
0.18	1150	184MABA05KG#	175	26.5x18.5x10	22.5	0.8
0.22	775	224MABA01KG#	120	26.5x18.5x10	22.5	0.8
0.22	775	224MABA01KH#	100	32x20x11	27.5	0.8
0.22	1150	224MABA05KG#	175	26.5x20x11	22.5	0.8
0.22	1150	224MABA05KH#	145	32x20x11	27.5	0.8
0.27	775	274MABA01KG#	120	26.5x18.5x10	22.5	0.8
0.27	1150	274MABA05KG#	175	26.5x22x13	22.5	0.8
0.27	1150	274MABA05KH#	145	32x20x11	27.5	0.8
0.33	575	334MABA02KG#	90	26.5x16x7	22.5	0.8
0.33	775	334MABA01KG#	120	26.5x18.5x10	22.5	0.8
0.33	775	334MABA01KH#	100	32x20x11	27.5	0.8
0.33	1150	334MABA05KH#	145	32x22x13	27.5	0.8
0.39	575	394MABA02KG#	90	26.5x16x7	22.5	0.8
0.39	775	394MABA01KH#	100	32x20x11	27.5	0.8
0.39	775	394MABA01KG#	120	26.5x18.5x10	22.5	0.8
0.39	1150	394MABA05KH#	145	32x22x13	27.5	0.8
0.47	575	474MABA02KG#	90	26.5x17x8.5	22.5	0.8
0.47	775	474MABA01KG#	120	26.5x20x11	22.5	0.8
0.47	775	474MABA01KH#	100	32x20x11	27.5	0.8
0.47	1150	474MABA05KH#	145	32x28x14	27.5	0.8
0.56	575	564MABA02KG#	90	26.5x17x8.5	22.5	0.8
0.56	775	564MABA01KH#	100	32x20x11	27.5	0.8
0.56	775	564MABA01KH#	100	32x20x11	27.5	0.8
0.56	1150	564MABA05KH#	145	32x28x14	27.5	0.8
0.62	775	624MABA01KH#	100	32x20x11	27.5	0.8
0.62	775	624MABA01KI#	70	39.5x26x15	35	0.8
0.62	775	624MABA01KG#	120	26.5x22x13	22.5	0.8
0.68	475	684MABA03KG#	60	26.5x16x7	22.5	0.8
0.68	575	684MABA02KG#	90	26.5x18.5x10	22.5	0.8
0.68	575	684MABA02KH#	70	32x20x11	27.5	0.8
0.68	775	684MABA01KI#	70	39.5x26x15	35	0.8
0.68	775	684MABA01KI#	70	39.5x26x15	27.5	0.8
0.68	775	684MABA01KH#	100	32x20x11	27.5	0.8
0.68	1150	684MABA05KH#	145	32x33x18	27.5	0.8
0.75	475	754MABA03KG#	60	26.5x17x8.5	22.5	0.8
0.75	775	754MABA01KH#	100	32x22x13	27.5	0.8
0.75	775	754MABA01KI#	70	39.5x26x15	35	0.8
0.75	1150	754MABA05KH#	145	32x33x18	27.5	0.8
0.82	475	824MABA03KG#	60	26.5x17x8.5	22.5	0.8
0.82	575	824MABA02KH#	70	32x20x11	27.5	0.8
0.82	575	824MABA02KH#	70	32x20x11	27.5	0.8
0.82	775	824MABA01KH#	100	32x22x13	27.5	0.8
0.82	775	824MABA01KI#	70	39.5x26x15	35	0.8
0.82	1150	824MABA05KH#	145	32x33x18	27.5	0.8
1	350	105MABA04KG#	50	26.5x16x7	22.5	0.8
1	475	105MABA03KG#	60	26.5x18.5x10	22.5	0.8
1	575	105MABA02KH#	70	32x20x11	27.5	0.8
1	575	105MABA02KH#	70	32x20x11	27.5	0.8
1	775	105MABA01KH#	100	32x24.5x15	27.5	0.8
1	775	105MABA01KI#	70	39.5x26x15	35	0.8
1	1150	105MABA05KJ#	90	42.5x28x17	37.5	0.8
1.2	350	125MABA04KG#	50	26.5x17x8.5	22.5	0.8

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
1.2	475	125MABA03KH#	50	32x17x9	27.5	0.8
1.2	500	125MABA03KG#	60	26.5x20x11	22.5	0.8
1.2	575	125MABA02KH#	70	32x20x11	27.5	0.8
1.2	775	125MABA01KH#	100	32x24.5x15	27.5	0.8
1.2	775	125MABA01KI#	70	39.5x26x15	35	0.8
1.2	1150	125MABA05KJ#	90	42.5x30x22	37.5	1
1.5	350	155MABA04KG#	50	26.5x17x8.5	22.5	0.8
1.5	475	155MABA03KG#	60	26.5x22x13	22.5	0.8
1.5	475	155MABA03KH#	50	32x22x11	27.5	0.8
1.5	575	155MABA02KH#	70	32x22x13	27.5	0.8
1.5	775	155MABA01KH#	100	32x33x18	27.5	0.8
1.5	775	155MABA01KI#	70	39.5x26x15	35	0.8
1.5	1150	155MABA05KJ#	90	42.5x30x22	37.5	1
1.8	350	185MABA04KG#	50	26.5x18.5x10	22.5	0.8
1.8	350	185MABA04KH#	40	32x17x9	27.5	0.8
1.8	475	185MABA03KH#	50	32x22x11	27.5	0.8
1.8	575	185MABA02KH#	70	32x28x14	27.5	0.8
1.8	775	185MABA01KH#	70	32x33x18	27.5	0.8
1.8	775	185MABA01KJ#	65	42.5x28x17	37.5	0.8
1.8	1150	185MABA05KJ#	90	42.5x37x28	37.5	1
2	350	205MABA04KH#	40	32x17x9	27.5	0.8
2	350	205MABA04KG#	50	26.5x20x11	22.5	0.8
2	475	205MABA03KH#	50	32x22x13	27.5	0.8
2	575	205MABA02KH#	70	32x28x14	27.5	0.8
2	575	205MABA02KI#	50	39.5x26x15	35	0.8
2	775	205MABA01KH#	65	32x33x18	27.5	0.8
2	775	205MABA01KJ#	65	42.5x28x17	37.5	0.8
2	1150	205MABA05KJ#	90	42.5x37x28	37.5	1
2.2	350	225MABA04KG#	50	26.5x20x11	22.5	0.8
2.2	350	225MABA04KH#	40	32x20x11	27.5	0.8
2.2	475	225MABA03KH#	50	32x22x13	27.5	0.8
2.2	575	225MABA02KH#	70	32x28x14	27.5	0.8
2.2	575	225MABA02KI#	50	39.5x26x15	35	0.8
2.2	775	225MABA01KH#	65	32x33x18	27.5	0.8
2.2	775	225MABA01KJ#	65	42.5x28x17	37.5	0.8
2.2	1150	225MABA05KJ#	90	42.5x37x28	37.5	1
2.5	350	255MABA04KH#	40	32x20x11	27.5	0.8
2.5	350	255MABA04KG#	50	26.5x22x13	22.5	0.8
2.5	475	255MABA03KH#	50	32x22x13	27.5	0.8
2.5	575	255MABA02KH#	70	32x28x14	27.5	0.8
2.5	575	255MABA02KI#	50	39.5x26x15	35	0.8
2.5	775	255MABA01KJ#	65	42.5x28x17	37.5	0.8
2.5	1150	255MABA05KJ#	90	42.5x37x28	37.5	1
2.7	350	275MABA04KG#	50	26.5x22x13	22.5	0.8
2.7	350	275MABA04KH#	40	32x20x11	27.5	0.8
2.7	475	275MABA03KH#	50	32x22x13	27.5	0.8
2.7	575	275MABA02KI#	50	39.5x26x15	35	0.8
2.7	575	275MABA02KH#	70	32x28x14	27.5	0.8
2.7	775	275MABA01KJ#	65	42.5x30x22	37.5	1
2.7	1150	275MABA05KJ#	90	42.5x45x30	37.5	1
3	350	305MABA04KH#	40	32x22x13	27.5	0.8
3	475	305MABA03KH#	50	32x24.5x15	27.5	0.8
3	575	305MABA02KH#	70	32x33x18	27.5	0.8
3	575	305MABA02KI#	50	39.5x26x15	35	0.8
3	575	305MABA02KJ#	50	42.5x28x17	37.5	1
3	775	305MABA01KJ#	65	42.5x30x22	37.5	1
3	1150	305MABA05KJ#	90	42.5x45x30	37.5	1
3.15	475	315MABA03KH#	50	32x24.5x15	27.5	0.8

MAB

Radial leaded box

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
3.15	475	315MABA03KI#	40	39.5x26x15	35	0.8
3.3	350	335MABA04KH#	40	32x22x13	27.5	0.8
3.3	475	335MABA03KH#	50	32x24.5x15	27.5	0.8
3.3	475	335MABA03KI#	40	39.5x26x15	35	0.8
3.3	575	335MABA02KH#	70	32x33x18	27.5	0.8
3.3	575	335MABA02KJ#	50	42.5x28x17	37.5	1
3.3	575	335MABA02KI#	50	39.5x26x15	35	0.8
3.3	775	335MABA01KJ#	65	42.5x30x22	37.5	1
3.3	1150	335MABA05KJ#	90	42.5x45x30	37.5	1
3.5	350	355MABA04KH#	40	32x22x13	27.5	0.8
3.5	475	355MABA03KH#	50	32x24.5x15	27.5	0.8
3.5	475	355MABA03KI#	40	39.5x26x15	35	0.8
3.5	575	355MABA02KH#	70	32x33x18	27.5	0.8
3.5	575	355MABA02KJ#	50	42.5x28x17	37.5	0.8
3.5	575	355MABA02KI#	50	42.5x28x17	37.5	0.8
3.5	775	355MABA01KJ#	65	42.5x33.5x22	37.5	1
3.5	1150	355MABA05KJ#	90	42.5x45x30	37.5	1
4	350	405MABA04KH#	40	32x22x13	27.5	0.8
4	475	405MABA03KI#	40	39.5x26x15	35	0.8
4	475	405MABA03KH#	50	32x33x18	27.5	0.8
4	575	405MABA02KH#	70	32x33x18	27.5	0.8
4	575	405MABA02KJ#	50	42.5x28x17	37.5	0.8
4	775	405MABA01KJ#	65	42.5x33.5x22	37.5	1
4.5	350	455MABA04KH#	40	32x24.5x15	27.5	0.8
4.5	475	455MABA03KH#	50	32x33x18	27.5	0.8
4.5	475	455MABA03KJ#	35	42.5x28x17	37.5	0.8
4.5	575	455MABA02KJ#	50	42.5x30x22	37.5	1
4.5	775	455MABA01KJ#	65	42.5x33.5x22	37.5	1
4.7	350	475MABA04KH#	40	32x28x14	27.5	0.8
4.7	475	475MABA03KH#	50	32x33x18	27.5	0.8
4.7	475	475MABA03KJ#	35	42.5x28x17	37.5	0.8
4.7	575	475MABA02KJ#	50	42.5x30x22	37.5	1
4.7	775	475MABA01KJ#	65	42.5x37x28	37.5	1
5	350	505MABA04KH#	40	32x28x14	27.5	0.8
5	475	505MABA03KH#	50	32x33x18	27.5	0.8
5	475	505MABA03KJ#	35	42.5x28x17	37.5	0.8
5	575	505MABA02KJ#	50	42.5x30x22	37.5	1
5	775	505MABA01KJ#	65	42.5x37x28	37.5	1
5.5	775	555MABA01KJ#	65	42.5x37x28	37.5	1
6	350	605MABA04KH#	40	32x33x18	27.5	0.8
6	350	605MABA04KI#	30	39.5x26x15	35	0.8
6	475	605MABA03KJ#	35	42.5x28x17	37.5	0.8

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
6	575	605MABA02KJ#	50	42.5x30x22	37.5	1
6	775	605MABA01KJ#	65	42.5x37x28	37.5	1
6.3	575	635MABA02KJ#	50	42.5x30x22	37.5	1
6.3	775	635MABA01KJ#	65	42.5x37x28	37.5	1
6.5	475	655MABA03KJ#	35	42.5x28x17	37.5	0.8
6.8	350	685MABA04KJ#	25	42.5x28x17	37.5	0.8
6.8	350	685MABA04KH#	40	32x33x18	27.5	0.8
6.8	350	685MABA04KI#	30	39.5x26x15	35	0.8
6.8	575	685MABA02KJ#	50	42.5x33.5x22	37.5	1
7	350	705MABA04KJ#	25	42.5x28x17	37.5	0.8
7	350	705MABA04KH#	40	32x33x18	27.5	0.8
7	350	705MABA04KI#	30	39.5x26x15	35	0.8
7	775	705MABA01KJ#	65	42.5x45x30	37.5	1
8	350	805MABA04KH#	40	32x33x18	27.5	0.8
8	350	805MABA04KJ#	25	42.5x28x17	37.5	0.8
8	475	805MABA03KJ#	35	42.5x30x22	37.5	1
8	575	805MABA02KJ#	50	42.5x33.5x22	37.5	1
8	775	805MABA01KJ#	65	42.5x45x30	37.5	1
8.5	775	855MABA01KJ#	65	42.5x45x30	37.5	1
10	350	106MABA04KJ#	25	42.5x28x17	37.5	0.8
10	475	106MABA03KJ#	35	42.5x30x22	37.5	1
10	575	106MABA02KJ#	50	42.5x37x28	37.5	1
11	575	116MABA02KJ#	50	42.5x45x30	37.5	1
12	350	126MABA04KJ#	25	42.5x30x22	37.5	1
12	475	126MABA03KJ#	35	42.5x37x28	37.5	1
12	575	126MABA02KJ#	50	42.5x45x30	37.5	1
13	575	136MABA02KJ#	50	42.5x45x30	37.5	1
14	575	146MABA02KJ#	50	42.5x45x30	37.5	1
15	350	156MABA04KJ#	25	42.5x30x22	37.5	1
15	475	156MABA03KJ#	35	42.5x37x28	37.5	1
15	575	156MABA02KJ#	50	42.5x45x30	37.5	1
18	350	186MABA04KJ#	25	42.5x37x28	37.5	1
18	475	186MABA03KJ#	35	42.5x45x30	37.5	1
20	350	206MABA04KJ#	25	42.5x37x28	37.5	1
20	475	206MABA03KJ#	35	42.5x45x30	37.5	1
22	350	226MABA04KJ#	25	42.5x37x28	37.5	1
22	475	226MABA03KJ#	35	42.5x45x30	37.5	1
25	350	256MABA04KJ#	25	42.5x37x28	37.5	1
27	350	276MABA04KJ#	25	42.5x45x30	37.5	1
30	350	306MABA04KJ#	25	42.5x45x30	37.5	1
33	350	336MABA04KJ#	25	42.5x45x30	37.5	1