

- Motor Run
- General Purpose AC application
- Switching Capacitor for Industrial Controls
- SMPS
- High Frequency Electronic Ballasts
- Motor Speed Controls

Operating Temperature Range	-40°C to +105°C without use of approvals -25°C to +85°C for use of approvals				
Capacitance Tolerance	+/- 10% at 1kHz, 20°C				
Rated Voltage	See Voltage Code Table				
	Voltage must be derated by 1.25% per °C exceeding 85°C.				
Dissipation Factor (max) at 20°C.	Freq (kHz)	C ≤ 2.2µF	2.2µF < C ≤ 15µF	15µF < C ≤ 22µF	C > 22
	1	.06%	.1%	.12%	.14%
Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC	> 10,000MΩ x uF for C<1uF. > 30,000MΩ x uF for C≥1uF.				
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 (1000 hours expected life, continuous service) 600 hrs. for Class C (3000 hours expected life, continuous service) 2000 hrs. for Class B (10000 hours expected life, continuous service) 6000 hrs. for Class A (30000 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)				

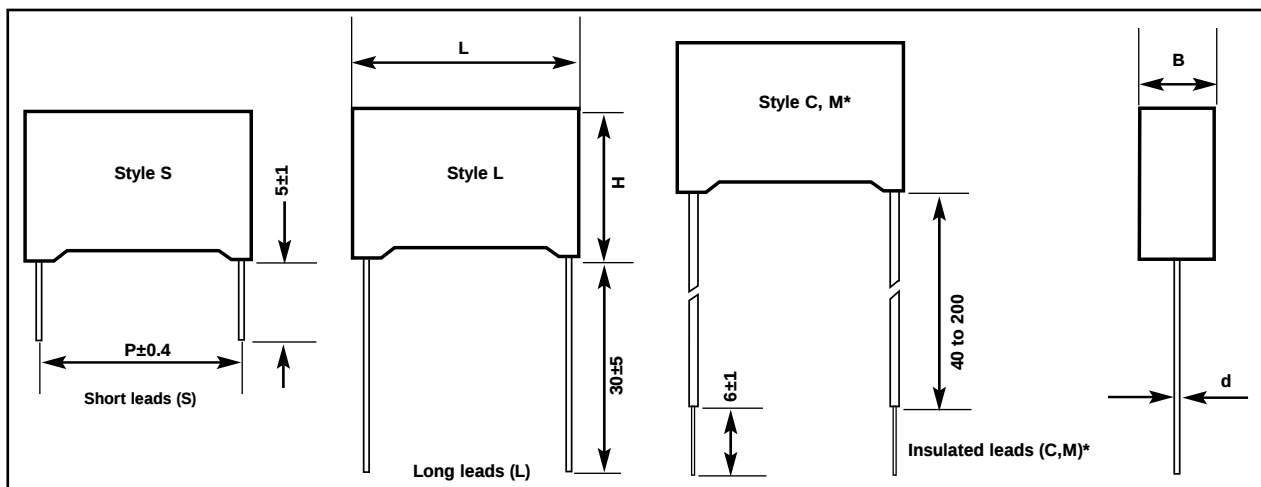
APPROVAL CODES

Voltage Code	WVDC/SVDC	VAC (50/60 Hz)	Agency Standard	Description	Approval Classification
A04	350/425	160	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class B
A04			EN 60252-1	10,000 hrs. Continuous Service	
A04			EN 60252	1000 hrs. Continuous Service	
A03	475/550	250	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class B
A03			EN 60252-1	10,000 hrs. Continuous Service	
A03			EN 60252-1	1000 hrs. Continuous Service	
A02	575/680	320	UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	Class A
A02			EN 60252-1	30,000 hrs Continuous service	
A02			EN 60252-1	10,000 hrs Continuous service	
A02	775/925	430	EN 60252-1	1000 hrs Continuous service	Class D
A01			EN 60252-1	10,000 hrs Continuous service	
A01			EN 60252-1	30,000 hrs Continuous service	
A01	775/925	500	EN 60252-1	3000 hrs Continuous service	Class C
A01			UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	
A05			UL 810/CSA 22.2	Construction only (E192977)/190-M-1985	
A05	1150/1350	600	EN 60252-1	3000 hrs Continuous service	Class C
A05			EN 60252-1	10,000 hrs Continuous service	
A05			EN 60252-1	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

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 <26.5x18.5x10

PHYSICAL DIMENSIONS

Voltage Code VDC µF	A04 350	A03 475	A02 575	A01 775	A05 1150
0.1			→	26.5x16x7	26.5x16x7
0.12			→	26.5x16x7	26.5x17x8.5
0.15			→	26.5x17x8.5	26.5x17x8.5
0.18			→		26.5x18.5x10
0.22			→	26.5x18.5x10	26.5x20x11
0.22			→		32x20x11
0.27			→	26.5x18.5x10	26.5x22x13
0.27			→		32x20x11
0.33		→	26.5x16x7	26.5x18.5x10	32x22x13
0.33			→	32x20x11	
0.39		→	26.5x16x7	26.5x18.5x10	32x22x13
0.39			→	32x20x11	
0.47		→	26.5x17x8.5	26.5x20x11	32x28x14
0.47			→	32x20x11	
0.56		→	26.5x17x8.5	26.5x22x13	32x28x14
0.56			→	32x20x11	
0.62			→	26.5x22x13	
0.62			→	32x20x11	
0.62			→	39.5x26x15	
0.68	→	26.5x16x7	26.5x18.5x10	32x20x11	32x33x18
0.68			32x20x11	39.5x26x15	
0.68			→	26.5x22x13	
0.75	→	26.5x17x8.5	→	32x22x13	32x33x18
0.75			→	39.5x26x15	
0.82	→	26.5x17x8.5	26.5x20x11	32x22x13	32x33x18
0.82			32x20x11	39.5x26x15	
1	26.5x16x7	26.5x18.5x10	26.5x22x13	32x24.5x15	42.5x28x17
1			32x20x11	39.5x26x15	
1.2	26.5x17x8.5	26.5x20x11	32x22x13	32x24.5x15	42.5x30x22
1.2	→	32x17x9	→	39.5x26x15	
1.5	26.5x17x8.5	26.5x22x13	32x22x13	32x33x18	42.5x30x22
1.5	→	32x22x11	→	39.5x26x15	
1.8	26.5x18.5x10	32x22x11	32x28x14	32x33x18	42.5x37x28
1.8	32x17x9		→	42.5x28x17	
2	26.5x20x11	32x22x13	32x28x14	32x33x18	42.5x37x28
2	32x17x9	→	39.5x26x15	42.5x28x17	
2.2	26.5x20x11	32x22x13	32x28x14	32x33x18	42.5x37x28
2.2	32x20x11	→	39.5x26x15	42.5x28x17	
2.5	26.5x22x13	32x22x13	32x28x14	42.5x28x17	42.5x37x28
2.5	32x20x11	→	39.5x26x15		
2.7	26.5x22x13	32x22x13	32x28x14	42.5x30x22	42.5x45x30
2.7	32x20x11	→	39.5x26x15		
3	32x22x13	32x24.5x15	32x33x18	42.5x30x22	42.5x45x30
3		→	39.5x26x15		
3		→	42.5x28x17		
3.15	→	32x24.5x15			
3.15	→	39.5x26x15			
3.3	32x22x13	32x24.5x15	32x33x18	42.5x30x22	42.5x45x30
3.3	→	39.5x26x15	39.5x26x15		
3.3		→	42.5x28x17		

Convert to inches, divide by 25.4

LxHxT (mm)



MAB

AC/Motor Run
Film
Capacitors

PHYSICAL DIMENSIONS

Voltage Code μF VDC	A04 350	A03 475	A02 575	A01 775	A05 1150
3.5	32x22x13	32x24.5x15	32x33x18	42.5x37x28	42.5x45x30
3.5	→	39.5x26x15	42.5x28x17		
4	32x22x13	32x33x18	32x33x18	42.5x37x28	
4	→	39.5x26x15	42.5x28x17		
4.5	32x24.5x15	32x33x18	42.5x30x22	42.5x37x28	
4.5	→	42.5x28x17			
4.7	32x28x14	32x33x18	42.5x30x22	42.5x37x28	
4.7	→	42.5x28x17			
5	32x28x14	32x33x18	42.5x30x22	42.5x37x28	
5	→	42.5x28x17			
5.5			→	42.5x37x28	
6	32x33x18	42.5x28x17	42.5x30x22	42.5x37x28	
6	39.5x26x15				
6.3	→	42.5x28x17	42.5x30x22	42.5x37x28	
6.5	→	42.5x28x17			
6.8	32x33x18	→	42.5x30x22		
6.8	39.5x26x15				
6.8	42.5x28x17				
7	32x33x18		→	42.5x45x30	
7	39.5x26x15				
7	42.5x28x17				
8	32x33x18	42.5x30x22	42.5x37x28	42.5x45x30	
8	42.5x28x17				
8.5			→	42.5x45x30	
10	42.5x28x17	42.5x30x22	42.5x37x28		
11		→	42.5x45x30		
12	42.5x30x22	42.5x37x28	42.5x45x30		
13		→	42.5x45x30		
14		→	42.5x45x30		
15	42.5x30x22	42.5x37x28	42.5x45x30		
18	42.5x37x28	42.5x45x30			
20	42.5x37x28	42.5x45x30			
22	42.5x37x28	42.5x45x30			
25	42.5x37x28				
27	42.5x45x30				
30	42.5x45x30				
33	42.5x45x30				



MAB

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Film
Capacitors

STANDARD PART LISTING

Capacitance (μ F)	Voltage Series	ic [®] PART NUMBER	dv/dt (v/ μ sec.)	Dimensions L x H x T (mm)
0.1	A05	104MABA05KG#	175	26.5x16x7
0.1	A01	104MABA01KG#	120	26.5x16x7
0.12	A05	124MABA05KG#	175	26.5x17x8.5
0.12	A01	124MABA01KG#	120	26.5x16x7
0.15	A05	154MABA05KG#	175	26.5x17x8.5
0.15	A01	154MABA01KG#	120	26.5x17x8.5
0.18	A05	184MABA05KG#	175	26.5x18.5x10
0.22	A05	224MABA05KG#	175	26.5x20x11
0.22	A05	224MABA05KH#	145	32x20x11
0.22	A01	224MABA01KG#	120	26.5x18.5x10
0.27	A05	274MABA05KG#	175	26.5x22x13
0.27	A05	274MABA05KH#	145	32x20x11
0.27	A01	274MABA01KG#	120	26.5x18.5x10
0.33	A05	334MABA05KH#	145	32x22x13
0.33	A02	334MABA02KG#	90	26.5x16x7
0.33	A01	334MABA01KG#	120	26.5x18.5x10
0.33	A01	334MABA01KH#	100	32x20x11
0.39	A05	394MABA05KH#	145	32x22x13
0.39	A02	394MABA02KG#	90	26.5x16x7
0.39	A01	394MABA01KG#	120	26.5x18.5x10
0.39	A01	394MABA01KH#	100	32x20x11
0.47	A05	474MABA05KH#	145	32x28x14
0.47	A02	474MABA02KG#	90	26.5x17x8.5
0.47	A01	474MABA01KG#	120	26.5x20x11
0.47	A01	474MABA01KH#	100	32x20x11
0.56	A05	564MABA05KH#	145	32x28x14
0.56	A02	564MABA02KG#	90	26.5x17x8.5
0.56	A01	564MABA01KG#	120	26.5x22x13
0.56	A01	564MABA01KH#	100	32x20x11
0.62	A01	624MABA01KG#	120	26.5x22x13
0.62	A01	624MABA01KH#	100	32x20x11
0.62	A01	624MABA01KI#	70	39.5x26x15
0.68	A05	684MABA05KH#	145	32x33x18
0.68	A03	684MABA03KG#	60	26.5x16x7
0.68	A02	684MABA02KG#	120	26.5x18.5x10
0.68	A02	684MABA02KH#	70	32x20x11
0.68	A01	684MABA01KG#	120	26.5x22x13
0.68	A01	684MABA01KH#	100	32x20x11
0.68	A01	684MABA01KI#	70	39.5x26x15
0.75	A05	754MABA05KH#	145	32x33x18
0.75	A03	754MABA03KG#	60	26.5x17x8.5
0.75	A01	754MABA01KH#	100	32x22x13
0.75	A01	754MABA01KI#	70	39.5x26x15
0.82	A02	824MABA02KH#	70	32x20x11
0.82	A05	824MABA05KH#	145	32x33x18
0.82	A03	824MABA03KG#	60	26.5x17x8.5
0.82	A02	824MABA02KG#	70	26.5x20x11
0.82	A01	824MABA01KH#	100	32x22x13
0.82	A01	824MABA01KI#	70	39.5x26x15
1	A05	105MABA05KJ#	90	42.5x28x17
1	A04	105MABA04KG#	50	26.5x16x7
1	A03	105MABA03KG#	60	26.5x18.5x10

Capacitance (μ F)	Voltage Series	ic [®] PART NUMBER	dv/dt (v/ μ sec.)	Dimensions L x H x T (mm)
1	A02	105MABA02KH#	70	32x20x11
1	A02	105MABA02KG#	70	26.5x22x13
1	A02	105MABA02KH#	70	32x20x11
1	A01	105MABA01KH#	100	32x24.5x15
1	A01	105MABA01KI#	70	39.5x26x15
1.2	A05	125MABA05KJ#	90	42.5x30x22
1.2	A04	125MABA04KG#	50	26.5x17x8.5
1.2	A03	125MABA03KG#	60	26.5x20x11
1.2	A03	125MABA03KH#	50	32x17x9
1.2	A02	125MABA02KH#	70	32x22x13
1.2	A01	125MABA01KH#	100	32x24.5x15
1.2	A01	125MABA01KI#	70	39.5x26x15
1.5	A05	155MABA05KJ#	90	42.5x30x22
1.5	A04	155MABA04KG#	50	26.5x17x8.5
1.5	A03	155MABA03KG#	60	26.5x22x13
1.5	A03	155MABA03KH#	50	32x20x11
1.5	A02	155MABA02KH#	70	32x22x13
1.5	A01	155MABA01KH#	100	32x33x18
1.5	A01	155MABA01KI#	70	39.5x26x15
1.8	A05	185MABA05KJ#	90	42.5x37x28
1.8	A04	185MABA04KG#	50	26.5x18.5x10
1.8	A04	185MABA04KH#	40	32x17x9
1.8	A03	185MABA03KH#	50	32x22x13
1.8	A02	185MABA02KH#	70	32x28x14
1.8	A01	185MABA01KH#	70	32x33x18
1.8	A01	185MABA01KJ#	65	42.5x28x17
2	A05	205MABA05KJ#	90	42.5x37x28
2	A04	205MABA04KG#	50	26.5x20x11
2	A04	205MABA04KH#	40	32x17x9
2	A03	205MABA03KH#	50	32x22x13
2	A02	205MABA02KH#	70	32x28x14
2	A02	205MABA02KI#	50	39.5x26x15
2	A01	205MABA01KH#	65	32x33x18
2	A01	205MABA01KJ#	65	42.5x28x17
2.2	A05	225MABA05KJ#	90	42.5x37x28
2.2	A04	225MABA04KG#	50	26.5x20x11
2.2	A04	225MABA04KH#	40	32x20x11
2.2	A03	225MABA03KH#	50	32x22x13
2.2	A02	225MABA02KH#	70	32x28x14
2.2	A02	225MABA02KI#	50	39.5x26x15
2.2	A01	225MABA01KH#	65	32x33x18
2.2	A01	225MABA01KJ#	65	42.5x28x17
2.5	A05	255MABA05KJ#	90	42.5x37x28
2.5	A04	255MABA04KG#	50	26.5x22x13
2.5	A04	255MABA04KH#	40	32x20x11
2.5	A03	255MABA03KH#	50	32x22x13
2.5	A02	255MABA02KH#	70	32x28x14
2.5	A02	255MABA02KI#	50	39.5x26x15
2.5	A01	255MABA01KJ#	65	42.5x28x17
2.7	A05	275MABA05KJ#	90	42.5x45x30
2.7	A04	275MABA04KG#	50	26.5x22x13
2.7	A04	275MABA04KH#	40	32x20x11

NOTE: Replace # with S, L, C, M for lead style (See Page 189)



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STANDARD PART LISTING

Capacitance (μ F)	Voltage Series	ic [®] PART NUMBER	dv/dt (v/ μ sec.)	Dimensions L x H x T (mm)
2.7	A03	275MABA03KH#	50	32x22x13
2.7	A02	275MABA02KH#	70	32x28x14
2.7	A02	275MABA02KJ#	50	39.5x26x15
2.7	A01	275MABA01KJ#	65	42.5x30x22
3	A05	305MABA05KJ#	90	42.5x45x30
3	A04	305MABA04KH#	40	32x22x13
3	A03	305MABA03KH#	50	32x24.5x15
3	A02	305MABA02KH#	70	32x33x18
3	A02	305MABA02KI#	50	39.5x26x15
3	A02	305MABA02KJ#	50	42.5x28x17
3	A01	305MABA01KJ#	65	42.5x30x22
3.15	A03	315MABA03KH#	50	32x24.5x15
3.15	A03	315MABA03KI#	40	39.5x26x15
3.3	A05	335MABA05KJ#	90	42.5x45x30
3.3	A04	335MABA04KH#	40	32x22x13
3.3	A03	335MABA03KH#	50	32x24.5x15
3.3	A03	335MABA03KI#	40	39.5x26x15
3.3	A02	335MABA02KH#	70	32x33x18
3.3	A02	335MABA02KI#	50	39.5x26x15
3.3	A02	335MABA02KJ#	50	42.5x28x17
3.3	A01	335MABA01KJ#	65	42.5x30x22
3.5	A05	355MABA05KJ#	90	42.5x45x30
3.5	A04	355MABA04KH#	40	32x22x13
3.5	A03	355MABA03KH#	50	32x24.5x15
3.5	A03	355MABA03KI#	40	39.5x26x15
3.5	A02	355MABA02KH#	70	32x33x18
3.5	A02	355MABA02KJ#	50	42.5x28x17
3.5	A01	355MABA01KJ#	65	42.5x37x28
4	A04	405MABA04KH#	40	32x22x13
4	A03	405MABA03KH#	50	32x33x18
4	A03	405MABA03KI#	40	39.5x26x15
4	A02	405MABA02KH#	70	32x33x18
4	A02	405MABA02KJ#	50	42.5x28x17
4	A01	405MABA01KJ#	65	42.5x37x28
4.5	A04	455MABA04KH#	40	32x24.5x15
4.5	A03	455MABA03KH#	50	32x33x18
4.5	A03	455MABA03KJ#	35	42.5x28x17
4.5	A02	455MABA02KJ#	50	42.5x30x22
4.5	A01	455MABA01KJ#	65	42.5x37x28
4.7	A04	475MABA04KH#	40	32x28x14
4.7	A03	475MABA03KH#	50	32x33x18
4.7	A03	475MABA03KJ#	35	42.5x28x17
4.7	A02	475MABA02KJ#	50	42.5x30x22
4.7	A01	475MABA01KJ#	65	42.5x37x28
5	A04	505MABA04KH#	40	32x28x14
5	A03	505MABA03KH#	50	32x33x18
5	A03	505MABA03KJ#	35	42.5x28x17
5	A02	505MABA02KJ#	50	42.5x30x22

Capacitance (μ F)	Voltage Series	ic [®] PART NUMBER	dv/dt (v/ μ sec.)	Dimensions L x H x T (mm)
5	A01	505MABA01KJ#	65	42.5x37x28
5.5	A01	555MABA01KJ#	65	42.5x37x28
6	A04	605MABA04KH#	40	32x33x18
6	A04	605MABA04KJ#	30	39.5x26x15
6	A03	605MABA03KJ#	35	42.5x28x17
6	A02	605MABA02KJ#	50	42.5x30x22
6	A01	605MABA01KJ#	65	42.5x37x28
6.3	A02	635MABA02KJ#	50	42.5x30x22
6.3	A01	635MABA01KJ#	65	42.5x37x28
6.3	A03	635MABA01KG#	35	42.5x28x17
6.5	A03	655MABA03KJ#	35	42.5x28x17
6.8	A04	685MABA04KH#	40	32x33x18
6.8	A04	685MABA04KJ#	30	39.5x26x15
6.8	A04	685MABA04KJ#	25	42.5x28x17
6.8	A02	685MABA02KJ#	50	42.5x30x22
7	A04	705MABA04KH#	40	32x33x18
7	A04	705MABA04KJ#	30	39.5x26x15
7	A04	705MABA04KJ#	25	42.5x28x17
7	A01	705MABA01KJ#	65	42.5x45x30
8	A04	805MABA04KH#	40	32x33x18
8	A04	805MABA04KJ#	25	42.5x28x17
8	A03	805MABA03KJ#	35	42.5x30x22
8	A02	805MABA02KJ#	50	42.5x37x28
8	A01	805MABA01KJ#	65	42.5x45x30
8.5	A01	855MABA01KJ#	65	42.5x45x30
10	A04	106MABA04KJ#	25	42.5x28x17
10	A03	106MABA03KJ#	35	42.5x30x22
10	A02	106MABA02KJ#	50	42.5x37x28
11	A02	116MABA02KJ#	50	42.5x45x30
12	A04	126MABA04KJ#	25	42.5x30x22
12	A03	126MABA03KJ#	35	42.5x37x28
12	A02	126MABA02KJ#	50	42.5x45x30
13	A02	136MABA02KJ#	50	42.5x45x30
14	A02	146MABA02KJ#	50	42.5x45x30
15	A04	156MABA04KJ#	25	42.5x30x22
15	A03	156MABA03KJ#	35	42.5x37x28
15	A02	156MABA02KJ#	50	42.5x45x30
18	A04	186MABA04KJ#	25	42.5x37x28
18	A03	186MABA03KJ#	35	42.5x45x30
20	A04	206MABA04KJ#	25	42.5x37x28
20	A03	206MABA03KJ#	35	42.5x45x30
22	A04	226MABA04KJ#	25	42.5x37x28
22	A03	226MABA03KJ#	35	42.5x45x30
25	A04	256MABA04KJ#	25	42.5x37x28
27	A04	276MABA04KJ#	25	42.5x45x30
30	A04	306MABA04KJ#	25	42.5x45x30
33	A04	336MABA04KJ#	25	42.5x45x30

NOTE: Replace # with S, L, C, M for lead style (See Page 189)

