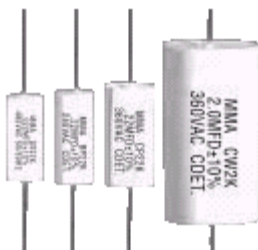


Type MMA Metallized Polyester Capacitors

Oval Axial Leaded Capacitors for AC Applications



Type MMA oval axial-leaded metallized polyester capacitors are designed for AC applications. It is constructed with a UL 94V-0 flame retardant outer wrap and has secure epoxy end seals to resist moisture. The metallized polyester dielectric is self-healing, has a low DF and is corona free at high AC voltages. The Type MMA is the axial leaded alternative to Type DMMA for medium current and AC applications. This non-protected film capacitor has Underwriters Laboratories, Inc. recognition for construction only under U.L. File Number 128034(N).

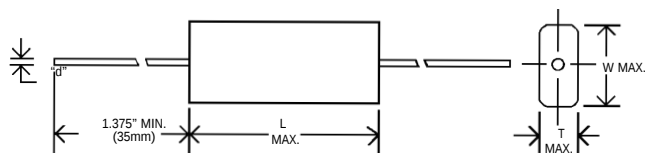
Highlights

- Low ESR and DF
- Medium current
- AC applications

Specifications

Capacitance Range:	.01 μ F to 5.0 μ F
Voltage Range:	125 to 480 Vac (250 to 1000 Vdc)
Capacitance Tolerance:	$\pm 10\%$ standard, $\pm 5\%$ optional
Temperature Range:	-55°C to 125°C with full rated voltage at 85°C derate linearly to 50% of rated voltage at 125°C
Dielectric Strength:	200% of rated voltage for 1 minute
Dissipation factor:	.60% Max. (25°C , 1kHz)
Insulation Resistance:	10,000 $\text{M}\Omega \times \mu\text{F}$, 30,000 $\text{M}\Omega$ Min.
Lift Test:	500 hours at 85°C at 115% rated voltage

Outline Drawing



NOTE: Other capacitance values, sizes and performance specification are available. Contact us.

Pulse Rating

Rated Voltage	Pulse Capability			
	Body Length			
	$\leq .875$	1.000-1.250	1.312-1.500	≥ 1.750
	dV/dt — volts per microsecond, maximum			
125	34	16	9	
240	46	22	12	
360	111	72	42	29
480	222	122	65	36

Ratings

Cap (μF)	Catalog Part Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)
125Vac (250 Vdc)					
0.047	MMAAS47K	.177 (4.5)	.275 (7.0)	.562 (14.3)	.020 (.5)
0.068	MMAAS68K	.166 (4.2)	.264 (6.7)	.687 (17.4)	.020 (.5)
0.10	MMAAP1K	.186 (4.7)	.311 (7.9)	.687 (17.4)	.024 (.6)
0.15	MMAAP15K	.228 (5.8)	.353 (9.0)	.687 (17.4)	.024 (.6)
0.22	MMAAP22K	.276 (7.0)	.401 (10.2)	.687 (17.4)	.024 (.6)
0.33	MMAAP33K	.339 (8.6)	.464 (11.8)	.687 (17.4)	.024 (.6)
0.47	MMAAP47K	.285 (7.2)	.410 (10.4)	1.000 (25.4)	.024 (.6)
0.68	MMAAP68K	.344 (8.7)	.469 (11.9)	1.000 (25.4)	.032 (.8)
1.00	MMAAW1K	.407 (10.3)	.572 (14.5)	1.062 (27.0)	.032 (.8)
1.50	MMAAW1P5K	.431 (10.9)	.611 (15.5)	1.250 (31.7)	.032 (.8)

Cap (μF)	Catalog Part Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)
125Vac (250 Vdc)					
2.00	MMAAW2K	.502 (12.7)	.682 (17.3)	1.250 (31.7)	.032 (.8)
3.00	MMAAW3K	.540 (13.7)	.720 (18.3)	1.500 (38.1)	.032 (.8)
4.00	MMAAW4K	.638 (16.2)	.834 (21.2)	1.500 (38.1)	.040 (1.0)
5.00	MMAAW5K	.712 (18.1)	.908 (23.1)	1.500 (38.1)	.040 (1.0)
240 Vac (400 Vdc)					
0.022	MMABS22K	.184 (4.7)	.282 (7.2)	.687 (17.4)	.020 (.5)
0.033	MMABS33K	.144 (3.7)	.269 (6.8)	.687 (17.4)	.020 (.5)
0.047	MMABS47K	.170 (4.3)	.295 (7.5)	.687 (17.4)	.020 (.5)
0.068	MMABS68K	.203 (5.2)	.328 (8.3)	.687 (17.4)	.020 (.5)
0.10	MMABP1K	.175 (4.4)	.300 (7.6)	1.000 (25.4)	.020 (.5)

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Ratings

Cap (μ F)	Catalog Part Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)
240 Vac (400 Vdc)					
0.15	MMABP15K	.213 (5.4)	.338 (8.6)	1.000 (25.4)	.020 (.5)
0.22	MMABP22K	.253 (6.4)	.378 (9.6)	1.000 (25.4)	.024 (.6)
0.33	MMABP33K	.302 (7.7)	.453 (11.5)	1.000 (25.4)	.024 (.6)
0.47	MMABP47K	.316 (8.0)	.468 (11.9)	1.187 (30.1)	.024 (.6)
0.68	MMABP68K	.385 (9.8)	.536 (13.6)	1.187 (30.1)	.032 (.8)
1.00	MMABW1K	.453 (11.5)	.663 (16.8)	1.250 (31.7)	.032 (.8)
1.50	MMABW1P5K	.488 (12.4)	.698 (17.7)	1.500 (38.1)	.032 (.8)
2.00	MMABW2K	.584 (14.8)	.780 (19.8)	1.500 (38.1)	.040 (1.0)
3.00	MMABW3K	.732 (18.6)	.928 (23.6)	1.500 (38.1)	.040 (1.0)
360 Vac (800V dc)					
0.015	MMACS15K	.153 (3.9)	.278 (7.1)	.875 (22.2)	.020 (.5)
0.022	MMACS22K	.182 (4.6)	.307 (7.8)	.875 (22.2)	.020 (.5)
0.033	MMACS33K	.223 (5.7)	.348 (8.8)	.875 (22.2)	.024 (.6)
0.047	MMACS47K	.264 (6.7)	.389 (9.9)	.875 (22.2)	.024 (.6)
0.068	MMACS68K	.264 (6.7)	.444 (11.3)	.875 (22.2)	.024 (.6)
0.100	MMACP1K	.303 (7.7)	.428 (10.9)	1.062 (27.0)	.024 (.6)
0.15	MMACP15K	.373 (9.5)	.498 (12.6)	1.062 (27.0)	.032 (.8)
0.22	MMACP22K	.454 (11.5)	.593 (15.1)	1.125 (28.6)	.032 (.8)
0.33	MMACP33K	.544 (13.8)	.710 (18.0)	1.125 (28.6)	.032 (.8)
0.47	MMACP47K	.605 (15.4)	.756 (19.2)	1.250 (31.7)	.040 (1.0)
0.68	MMACP68K	.730 (18.5)	.881 (22.4)	1.500 (38.1)	.040 (1.0)
1.00	MMACW1K	.727 (18.5)	.893 (22.7)	1.500 (38.1)	.040 (1.0)
1.50	MMACW1P5K	.716 (18.2)	.936 (23.8)	1.937 (49.2)	.040 (1.0)
2.00	MMACW2K	.834 (21.2)	1.054 (26.8)	1.937 (49.2)	.040 (1.0)

Cap (μ F)	Catalog Part Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)
480 Vac (1000 Vdc)					
0.010	MMADS1K	.185 (4.7)	.310 (7.9)	.875 (22.2)	.020 (.5)
0.015	MMADS15K	.226 (5.7)	.351 (8.9)	.875 (22.2)	.024 (.6)
0.022	MMADS22K	.273 (6.9)	.398 (10.1)	.875 (22.2)	.024 (.6)
0.033	MMADS33K	.336 (8.5)	.461 (11.7)	.875 (22.2)	.024 (.6)
0.047	MMADS47K	.295 (7.5)	.420 (10.7)	1.062 (27.0)	.024 (.6)
0.068	MMADS68K	.357 (9.1)	.482 (12.2)	1.062 (27.0)	.032 (.8)
0.10	MMADP1K	.393 (10.0)	.603 (15.3)	1.062 (27.0)	.032 (.8)
0.15	MMADP15K	.493 (12.5)	.703 (17.8)	1.125 (28.6)	.032 (.8)
0.22	MMADP22K	.495 (12.6)	.705 (17.9)	1.312 (33.3)	.032 (.8)
0.33	MMADP33K	.533 (13.5)	.743 (18.9)	1.500 (38.1)	.032 (.8)
0.47	MMADP47K	.663 (16.8)	.859 (21.8)	1.500 (38.1)	.040 (1.0)
0.68	MMADP68K	.722 (18.3)	.918 (23.3)	1.750 (44.4)	.040 (1.0)
1.00	MMADW1K	.794 (20.2)	1.014 (25.7)	1.937 (49.2)	.040 (1.0)
1.50	MMADW1P5K	.909 (23.1)	1.130 (28.7)	2.125 (54.0)	.040 (1.0)