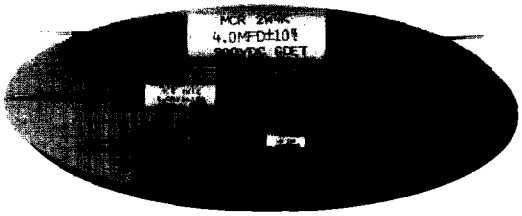
Type MCR—Metallized Axial Leads

Precise Values



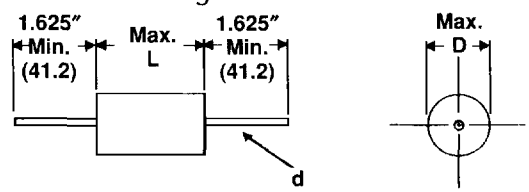
Type MCR axial-leaded, metallized polycarbonate capacitors exhibit superior electrical characteristics over an extremely wide temperature range. Miniature size and exceptional capacitance stability make MCR ideal for precision applications requiring tight tolerences and high capacitance.

Specifications

Voltage Range: 100–600 Vdc (70–250 Vac)
Capacitance Range: .01–5 µF
Capacitance Tolerance: ±10% (K) standard
±5% (J), ±2% (G), ±1% (F) optional
Operating Temperature Range: –55°C to 125°C

Dielectric Strength: 200%
Dissipation Factor: .30% Max.
Insulation Resistance: 50,000 MΩ x µF
200,000 MΩ Min.
Life Test: 500 Hours at 85°C at
150% Rated Voltage

Pulse Capability					
Rated Volts	Body Length				
	.625	.750	.937-1.062	1.312-1.437	≥1.562
	dV/dt—volts per microsecond, maximum				
100	45	28	15	13	9
200	54	34	18	14	11
400	108	68	36	30	21
600		100	55	43	27



TINNED COPPER-CLAD STEEL LEADS

Ratings and Dimensions

Cap. µF	Catalog Number	D Inches (mm)	L Inches (mm)	d Inches (mm)
100 Vdc (70 Vac)				
.1	MCR1P1K	.282 (7.2)	.625 (15.9)	.020 (.5)
.15	MCR1P15K	.282 (7.2)	.750 (19.1)	.020 (.5)
.22	MCR1P22K	.327 (8.3)	.750 (19.1)	.024 (.6)
.33	MCR1P33K	.382 (9.7)	.750 (19.1)	.024 (.6)
.47	MCR1P47K	.372 (9.4)	.937 (23.8)	.024 (.6)
.68	MCR1P68K	.437 (11.1)	.937 (23.8)	.024 (.6)
1	MCR1W1K	.467 (11.9)	1.062 (27.0)	.024 (.6)
1.5	MCR1W1P5K	.592 (15.0)	1.062 (27.0)	.032 (.8)
2	MCR1W2K	.622 (15.8)	1.312 (33.3)	.032 (.8)
3	MCR1W3K	.687 (17.4)	1.437 (36.5)	.032 (.8)
4	MCR1W4K	.737 (18.7)	1.562 (39.7)	.040 (1.0)
5	MCR1W5K	.812 (20.6)	1.562 (39.7)	.040 (1.0)
200/250 Vdc (140 Vac)				
.01	MCR2S1K	.182 (4.6)	.625 (15.9)	.020 (.5)
.015	MCR2S15K	.207 (5.3)	.625 (15.9)	.020 (.5)
.022	MCR2S22K	.217 (5.5)	.625 (15.9)	.020 (.5)
.033	MCR2S33K	.247 (6.3)	.625 (15.9)	.020 (.5)
.047	MCR2S47K	.272 (6.9)	.625 (15.9)	.020 (.5)
.068	MCR2S68K	.247 (6.3)	.750 (19.1)	.020 (.5)
.1	MCR2P1K	.307 (7.8)	.750 (19.1)	.024 (.6)
.15	MCR2P15K	.342 (8.7)	.750 (19.1)	.024 (.6)
.22	MCR2P22K	.402 (10.2)	.750 (19.1)	.024 (.6)
.33	MCR2P33K	.462 (11.7)	.750 (19.1)	.024 (.6)
.47	MCR2P47K	.402 (10.2)	1.062 (27.0)	.024 (.6)
.68	MCR2P68K	.425 (10.8)	1.062 (27.0)	.024 (.6)
1	MCR2W1K	.592 (15.0)	1.062 (27.0)	.032 (.8)
1.5	MCR2W1P5K	.637 (16.2)	1.312 (33.3)	.032 (.8)
2	MCR2W2K	.692 (17.6)	1.312 (33.3)	.040 (1.0)
3	MCR2W3K	.762 (19.4)	1.562 (39.7)	.040 (1.0)
4	MCR2W4K	.807 (20.5)	1.812 (46.0)	.040 (1.0)
5	MCR2W5K	.887 (22.5)	1.812 (46.0)	.040 (1.0)
400 Vdc (250 Vac)				
.01	MCR4S1K	.232 (5.9)	.625 (15.9)	.020 (.5)
.015	MCR4S15K	.232 (5.9)	.750 (19.1)	.020 (.5)
.022	MCR4S22K	.257 (6.5)	.750 (19.1)	.020 (.5)
.033	MCR4S33K	.292 (7.4)	.750 (19.1)	.024 (.6)
.047	MCR4S47K	.352 (8.9)	.750 (19.1)	.024 (.6)
.068	MCR4S68K	.407 (10.3)	0.750 (19.1)	.024 (.6)
.1	MCR4P1K	.377 (9.6)	1.062 (27.0)	.024 (.6)
.15	MCR4P15K	.432 (11.0)	1.062 (27.0)	.024 (.6)
.22	MCR4P22K	.457 (11.6)	1.312 (33.3)	.024 (.6)
.33	MCR4P33K	.497 (12.6)	1.562 (39.7)	.024 (.6)
.47	MCR4P47K	.612 (15.5)	1.562 (39.7)	.032 (.8)
.68	MCR4P68K	.712 (18.1)	1.562 (39.7)	.040 (1.0)
1	MCR4W1K	.787 (20.0)	1.812 (46.0)	.040 (1.0)
1.5	MCR4W1P5K	.927 (23.5)	1.812 (46.0)	.040 (1.0)
2	MCR4W2K	1.052 (26.7)	1.812 (46.0)	.040 (1.0)
3	MCR4W3K	1.155 (29.3)	2.312 (58.7)	.040 (1.0)
600/630 Vdc (250 Vac)				
.01	MCR6S1K	.247 (6.3)	.812 (20.6)	.020 (.5)
.015	MCR6S15K	.297 (7.5)	.812 (20.6)	.024 (.6)
.022	MCR6S22K	.352 (8.9)	.812 (20.6)	.024 (.6)
.033	MCR6S33K	.422 (10.7)	.812 (20.6)	.024 (.6)
.047	MCR6S47K	.377 (9.6)	1.125 (28.6)	.024 (.6)
.068	MCR6S68K	.437 (11.1)	1.125 (28.6)	.024 (.6)
.1	MCR6P1K	.557 (14.1)	1.125 (28.6)	.032 (.8)
.15	MCR6P15K	.597 (15.2)	1.312 (33.3)	.032 (.8)
.22	MCR6P22K	.702 (17.8)	1.312 (33.3)	.040 (1.0)
.33	MCR6P33K	.702 (17.8)	1.812 (46.0)	.040 (1.0)
.47	MCR6P47K	.807 (20.5)	1.812 (46.0)	.040 (1.0)
.68	MCR6P68K	.957 (24.3)	1.812 (46.0)	.040 (1.0)
1	MCR6W1K	1.188 (30.2)	1.812 (46.0)	.040 (1.0)

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