

MPL

Axial leaded metallized
polypropylene film capacitors
with Lug terminals



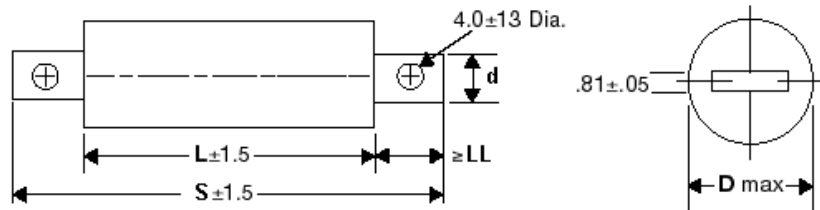
FEATURES

Low ESR - High ripple current – stable with frequency and temperature

APPLICATIONS

Resonant circuits – Filtering – Audio equipment – SMPS

Operating Temperature Range	-55°C to +105°C				
Capacitance Tolerance	±10% at 1 kHz, 25°C +5% optional				
Non Recurrent Surge Voltage	WVDC	100	200	400	
	SVDC	200	400	800	
Dissipation Factor (MAX) 1 kHz, 25°C	0.1%				
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	100000 MΩxμF				
Load Life	1000 Hours, +85C with 125% of rated voltage				
	Capacitance Change			≤3% of initially measured value	
	Dissipation Factor			<0.001 at 1kHz and 25°C	
	Insulation Resistance			≥50% of maximum specified value	
Damp Heat test	21 days at 40°C with 90 to 95%RH and no voltage applied				
	Capacitance Change			≤5% of initially measured value	
	Dissipation Factor			≤0.005 at 1kHz and 25°C	
	Insulation Resistance			≥50% of maximum specified value	
Self Inductance	<1 nano-Henry per mm of body length and lead length				
Capacitance Drift Factor	<0.5% after 2 years at 40°C				
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C				
Dielectric Strength	Terminal to Terminal				
	160% of rated VDC applied for 2 Seconds and 25°C				
Dielectric	Polypropylene				
Construction	Metallized film				
Coating	Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0)				
Leads	Lead free tinned copper leads				



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High Current Axial Lead with
Lug Terminals

Capacitance (μ F)	WVDC	IC PART NUMBER	Maximum E.S.R. (m Ω)	Maximum Ripple Current Amperes RMS (20kHz-100kHz)							D Max.	L Max.	d
				+25°C	+35°C	+45°C	+55°C	+65°C	+75°C	+85°C			
1	100	105MPL100K	12	10.3	9.5	8.7	7.8	6.7	5.5	5	13.5	25.5	9.14
1	200	105MPL200K	15	7.3	7.3	7.3	7.3	7.3	6.4	5.8	13	37.5	9.14
1	400	105MPL400K	19	9.5	9.5	9.5	9.5	9.5	8.3	7.5	18.1	44.5	9.14
2	100	205MPL100K	11	12	11	10	8.9	7.8	6.3	5.8	15.2	30.5	9.14
2	400	205MPL400K	15	15	15	15	14.2	12.3	10	9.1	22.7	50.5	9.14
2	200	205MPL200K	15	14.3	13.2	12.1	10.8	9.4	7.7	7	17.7	37.5	9.14
3	200	305MPL200K	13	13.3	12.3	11.2	10	8.7	7.1	6.5	19	44.5	9.14
3	400	305MPL400K	12	21.1	19.5	17.8	15.9	13.8	11.3	10.3	27.6	50.5	9.14
3	100	305MPL100K	11	12.1	11.2	10.3	9.2	8	6.5	5.9	18.2	30.5	9.14
5	100	505MPL100K	10	14.8	13.7	12.5	11.2	9.7	7.9	7.2	18.6	37.5	9.14
5	200	505MPL200K	11	18.3	17	15.5	13.9	12	9.8	8.9	21.9	50.5	9.14
5	400	505MPL400K	10	24.4	22.6	20.6	18.5	16	13.1	11.9	30.3	63.5	9.14
10	100	106MPL100K	9	17.8	16.5	15	13.5	11.7	9.5	8.7	22.8	44.5	9.14
10	200	106MPL200K	9	22.4	20.7	18.9	16.9	14.6	12	10.9	26.2	63.5	9.14
10	400	106MPL400K	6	30	27.8	25.4	22.7	19.7	16.1	14.7	42.4	63.5	9.14
20	100	206MPL100K	8	21.6	20	18.3	16.4	14.2	11.6	10.6	25.4	63.5	9.14
20	200	206MPL200K	6	27.4	25.4	23.2	20.7	17.9	14.7	13.4	13.4	63.5	9.14
30	100	306MPL100K	6	24.3	22.5	20.5	18.4	15.9	13	11.9	30.5	63.5	9.14