

# MPL

Axial leaded metallized polypropylene film capacitors with Lug terminals



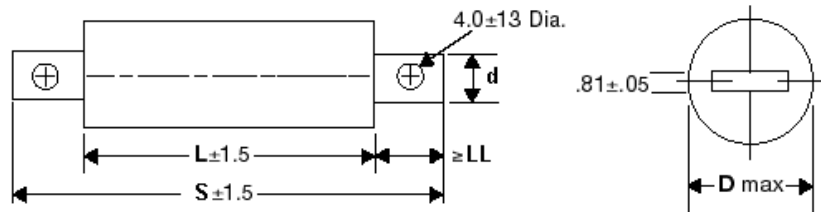
## FEATURES

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

## APPLICATIONS

Resonant circuits – Filtering – Audio equipment – SMPS

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



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## High Current Axial Lead with Lug Terminals

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