

MPH

Axial leaded metallized polypropylene film capacitors



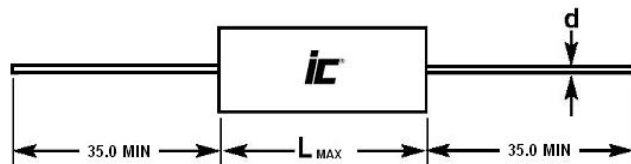
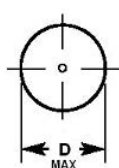
FEATURES

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 MΩ×μF				
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				



Diameter (D)	Lead diameter (d)
18≤D	0.8
D>18	1.0

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High Current Axial Lead

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	105MPH100K	15	9.2	8.5	7.8	7	6	4.9	4.5	13.5	20.5	0.8
1	200	105MPH200K	20	7.3	7.3	7.3	7.3	7.2	5.9	5.4	13	33.5	0.8
1	400	105MPH400K	19	9.5	9.5	9.5	9.5	9.5	7.8	7.1	18.1	39.5	1
2	100	205MPH100K	12	10.8	10	9.1	8.2	7	5.8	5.3	15.2	25.5	0.8
2	200	205MPH200K	15	12	12	11.3	10.1	8.7	7.1	6.5	17.7	33.5	0.8
2	400	205MPH400K	15	15	15	15	13.4	11.6	9.5	8.7	22.7	44.5	1
3	100	305MPH100K	11	12.1	11.2	10.3	9.2	8	6.5	5.9	18.2	25.5	1
3	200	305MPH200K	13	15	13.8	12.6	11.3	9.8	8	7.3	19	39.5	1
3	400	305MPH400K	12	15	15	15	15	13.1	10.7	9.8	27.6	44.5	1
5	100	505MPH100K	10	13.8	12.7	11.6	10.4	9	7.4	6.7	18.6	33.5	1
5	200	505MPH200K	11	15	15	14.7	13.1	11.4	9.3	8.5	21.9	44.5	1
5	400	505MPH400K	10	15	15	15	15	15	12.5	11.4	30.3	58.5	1
10	100	106MPH100K	9	15	15	14.2	12.7	11	9	8.2	22.8	39.5	1
10	200	106MPH200K	9	15	15	15	15	13.8	11.1	10	26.2	58.5	1
10	400	106MPH400K	6	15	15	15	15	15	15	14.1	42.4	58.5	1
20	100	206MPH100K	8	15	15	15	15	13.6	11.1	10	25.4	58.5	1
20	200	206MPH200K	6	15	15	15	15	15	14.1	12.8	36.6	58.5	1
30	100	306MPH100K	6	15	15	15	15	15	12.4	11.4	30.5	58.5	1