

# FFR

## +125° Non-inductive Polyester Film/Foil Epoxy Dipped Radial Lead Capacitors



• Noninductive construction

• Capacitance range: 0.001  $\mu$ f to .22  $\mu$ f

<b>Operating Temperature Range</b>		<b>-55°C to 125°C</b>	
<b>Capacitance Tolerance</b>		<b>±10% at 1kHz, 25°C</b>	
<b>Voltage Range</b>	<b>WVDC</b>	<b>100</b>	
	<b>VAC</b>	63	
<b>Dissipation Factor</b>		<b>.75% at 1 kHz, 25°C</b>	
<b>Insulation Resistance</b>		<b>Capacitance</b>	<b>Insulation Resistance</b>
		≤ 0.1 $\mu$ f	20,000 M $\Omega$
		> 0.1 $\mu$ f	2,000 M $\Omega$ x $\mu$ f
<b>Load Life</b>		<b>2,000 hours, +85°C with 125% rated DC voltage</b>	
		Capacitance Change	≤5% of initial measured value
		Dissipation Factor Change	<0.5% at 1kHz
		Insulation Resistance	50% of minimum specified value
<b>Humidity Test</b>		<b>1000 hours, 95% RH, 40°C and no applied voltage</b>	
		Capacitance Change	<5% of initial readings @ +25°C, 1kHz
		Dissipation Factor Change	<0.5% at 1kHz
		Insulation Resistance	>50% of minimum specified value
<b>Self-inductance</b>		≤1 nH/mm along the capacitor pitch	
<b>Dielectric Strength</b>		250% of rated voltage for 2 seconds applied between terminals	
<b>Capacitance Drift Factor</b>		(after 2 years) ≤ 2.0% up to 40°C	
<b>Capacitance Temperature Coefficient</b>		+400 ppm/°C, ± 200ppm/°C	
<b>Type</b>		Film/Foil Non-inductive	
<b>Dielectric</b>		Polyester film	
<b>Electrodes</b>		Aluminum foils	
<b>Leads</b>		Tinned copper wire	
<b>Coating</b>		Flame retardant epoxy sealed resin (UL 94V-0)	

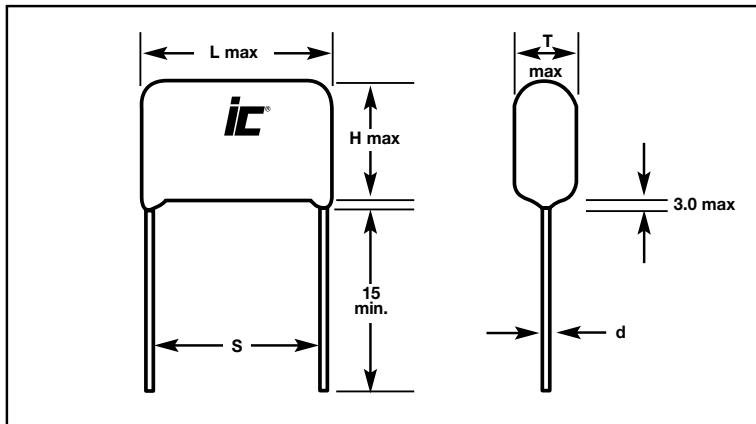
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+125°C Non-inductive  
Polyester Film/Foil  
Epoxy-Dipped Radial  
Lead Capacitors

## STANDARD PART LISTING

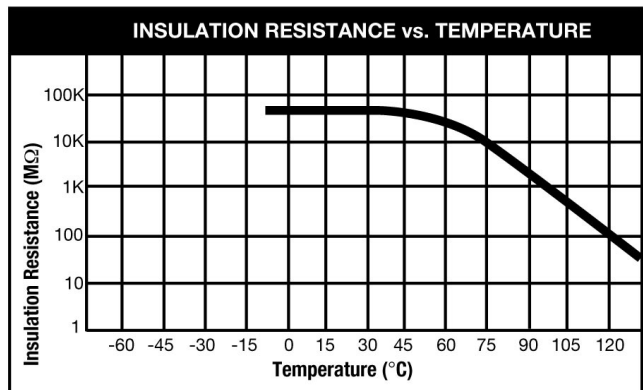
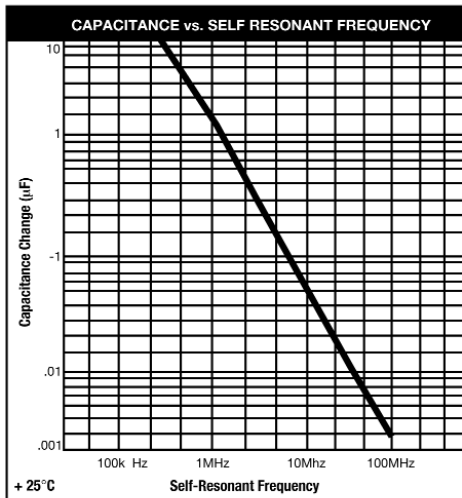
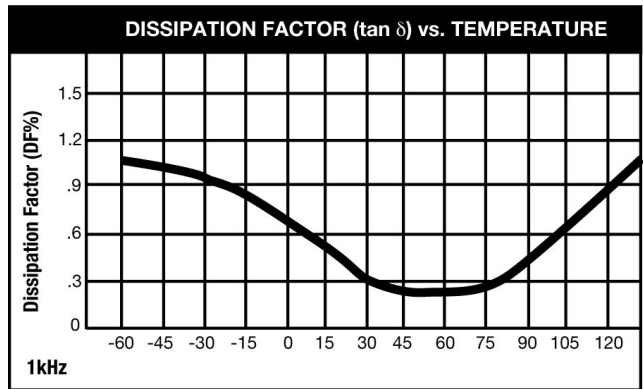
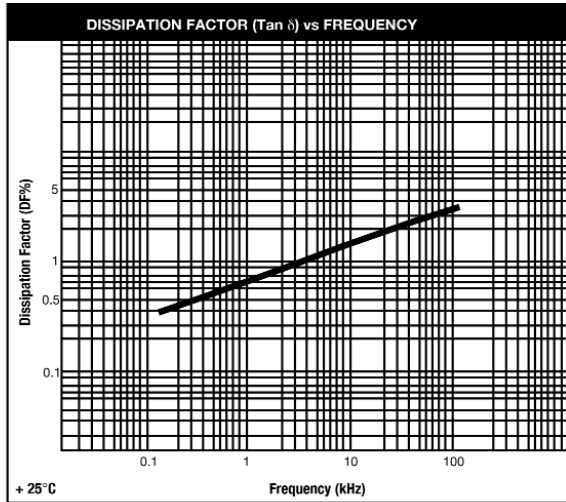
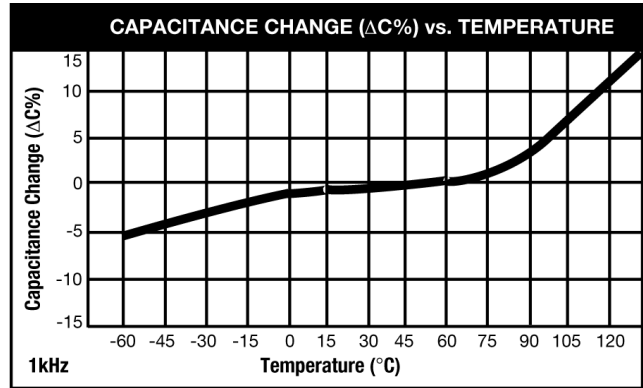
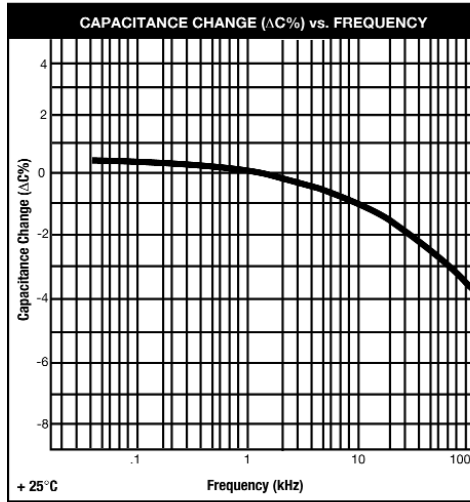
Capacitance (μF)	WVDC	ic <sup>®</sup> PART NUMBER	dv/dt (v/μ sec.)	L Max.	H Max.	T Max.	S Lead Spacing	d Lead Wire Diameter
.001	100	102FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0015	100	152FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0022	100	222FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0033	100	332FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0047	100	472FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0056	100	562FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0068	100	682FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.0082	100	822FFR100K	7000	10.5	9.5	5.5	7.0	0.6
.01	100	103FFR100K	7000	10.5	9.5	6.0	7.0	0.6
.015	100	153FFR100K	7000	10.5	9.5	6.0	7.0	0.6
.022	100	223FFR100K	7000	10.5	9.5	6.0	7.0	0.6
.033	100	333FFR100K	3800	13.5	10.0	6.0	10.0	0.6
.047	100	473FFR100K	3800	13.5	10.5	7.5	10.0	0.6
.056	100	563FFR100K	3800	13.5	11.0	7.0	10.0	0.6
.068	100	683FFR100K	3800	13.5	12.5	7.0	10.0	0.6
.082	100	823FFR100K	3800	13.0	13.0	8.0	10.0	0.6
.1	100	104FFR100K	3800	14.0	13.0	8.0	10.0	0.6
.15	100	154FFR100K	1900	19.0	13.5	7.5	15.0	0.8
.22	100	224FFR100K	1900	20.0	15.0	8.5	15.0	0.8

NOTE: WVDC IS RATED DC WORKING VOLTAGE AT +85°C.



Lead Space	S	<15.0	≥15.0
Tolerance	S	±1.5	±1.5
Wire Dia.	d	0.6	0.8

## ENVIROMENTAL/ENDURANCE DATA



NOTE: These graphs reflect typical measurements.

