

FFR

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



- *Noninductive construction*

- *Capacitance range: 0.001 μ f to .22 μ f*

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

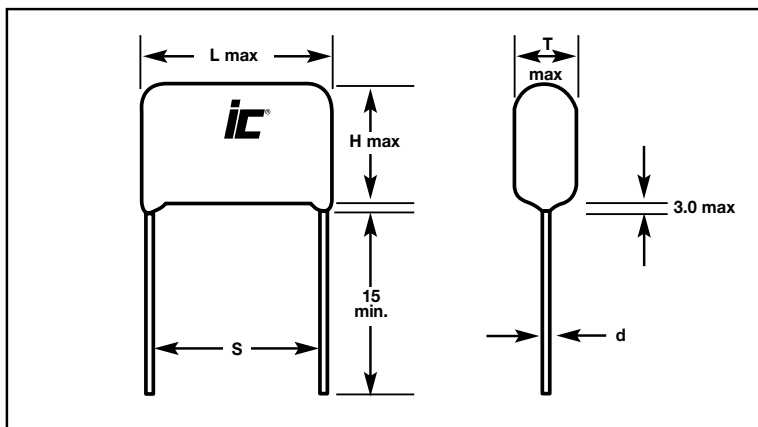
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Epoxy-Dipped Radial
Lead Capacitors

STANDARD PART LISTING

Capacitance (μ F)	WVDC	ic [®] 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



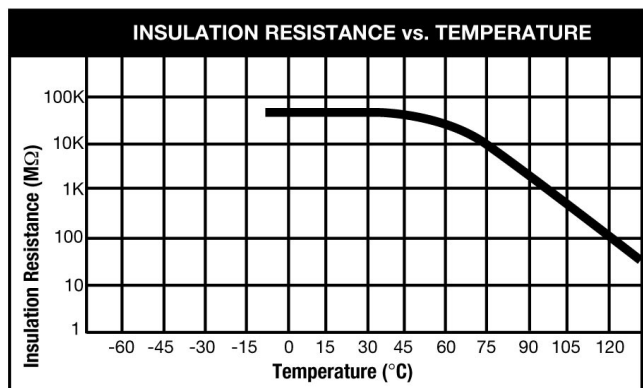
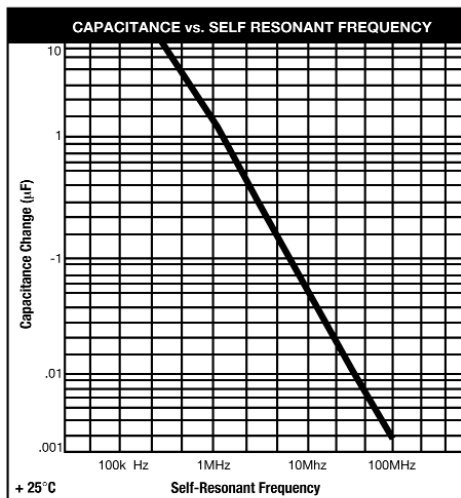
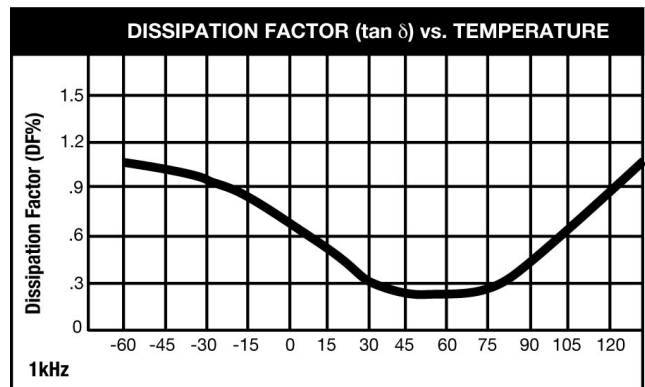
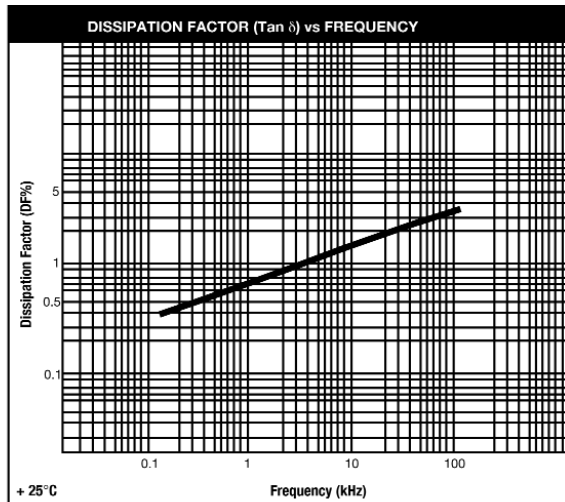
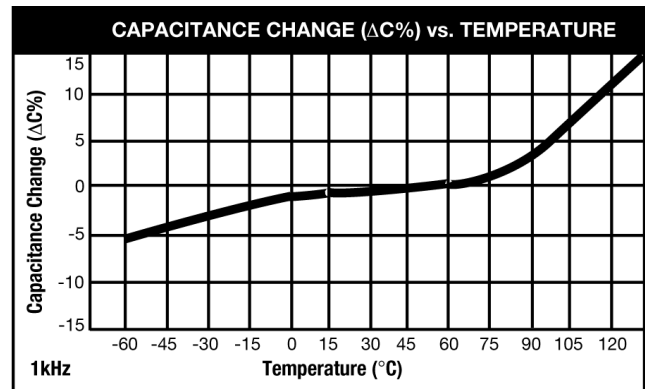
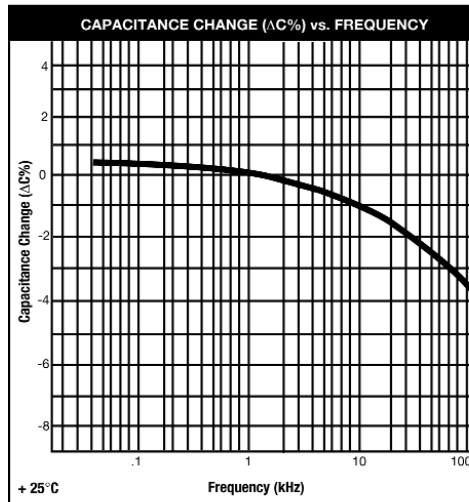
ILLINOIS CAPACITOR, INC.

3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com

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ENVIROMENTAL/ENDURANCE DATA



NOTE: These graphs reflect typical measurements.



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