

SOLEN FILM & FOIL FAST CAPACITORS

- **GENERAL INFORMATION**

Type : Tin Foil / Polypropylene Film Capacitor.
Dielectric : Bi-axially Oriented Polypropylene Film.
Construction : Round Tubular "Square Aspect Ratio" Type, Axial Leads.
Coating : White Plastic Tape Wrapped, Black Epoxy Resin Sealed.
Electrodes : Pure Tin Foil.
Winding : Bifilar Extended Foil Design.
Contact : Non-Inductive, Radially Knurled Extended Foil.
Connectors : Tinned Plated Oxygen Free Pure Copper.

- **TECHNICAL DATA**

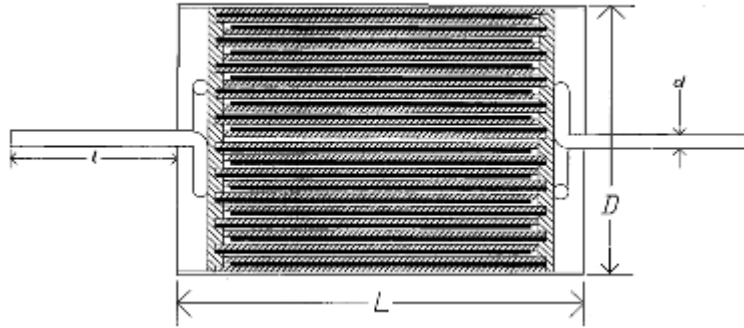
Capacitance Range/Tolerance : .01 ... 2.0 uF, E 12 series, +-3 %, typ. 1% (see specifications for details)
Dielectric Constant : 2.1 er, non-polar dielectric.
Dielectric Absorption Factor : Less Than .05 % @ 20°C.
Equivalent Series Resistance : Extremely Low (see specifications for details)
Dissipation Factor : Extremely Low (see specifications for details)
Self Inductance : Less Than 12 nH with 6 mm leads.
Insulation Resistance : More than 100,000 MegOhm @ 20°C.
Temperature Range : -55°C to +85°C.
Test Voltage : 1.5 x Vr for 5 sec.
Rated Voltage : 100 VDC/63 VAC, 150 VDC/100 VAC, 250 VDC/160 VAC
: 400 VDC/250 VAC, 630 VDC/400 VAC, 1200 VDC/400 VAC.
Dielectric Thickness : 4 micron, 5 micron, 6 micron, 10 micron.
Metal Layers Thickness : 5 micron
Leads Diameter : 0.8, 1.0 mm pure copper.. (see specifications for details)

- **FEATURE**

Special Tubular "Square Aspect Ratio" Type Construction.
Very High Conductivity Tin Foil.
Tin/Silver Soldered Lead Termination.
Very High Current Capacity.
High Frequency and Temperature Stability.
Excellent Long Term Electrical and Mechanical Reliability.
No Short Term and / or Long Term Signal Aberation.
Unrivald Handling of Fast High Current Pulse.

- **ELECTRICAL PERFORMANCE**

Very Low Dielectric Absortion Factor.
Very Low Equivalent Series Resistance.
Very Low Self Inductance.
Very High Self Resonant Frequency
Ultra Linear Impedance Characteristics.
Very Low Dissipation Factor.
Very High Insulation Resistance.



SOLEN INC.

FAST CAPACITORS

TIN FOIL

Dissipation Factor (%) $\pm 10\%$

Dimensions (mm) $\pm 10\%$

SN	1200Vdc/400Vac	SM	630Vdc/400Vac
SE	400Vdc/250Vac	SY	250Vdc/160Vac
SB	150Vdc/100Vac	SA	100Vdc/63Vac

P/N	Capacitance/DF		x L	x l
SN0010	.010 mfd	.00007	5 x 23	0.8 x 30
SM0022	.022 mfd	.00007	5 x 23	0.8 x 30
SM0047	.047 mfd	.00008	8 x 28	0.8 x 30
SM010	.10 mfd	.00009	11 x 23	0.8 x 30
SM022	.22 mfd	.00010	13 x 28	0.8 x 30
SM033	.33 mfd	.00011	16 x 28	1.0 x 30
SM047	.47 mfd	.00012	15 x 36	1.0 x 35
SM068	.68 mfd	.00013	18 x 36	1.0 x 35
SM082	.82 mfd	.00015	20 x 36	1.0 x 35
SM100	1.0 mfd	.00017	22 x 36	1.0 x 35
SE150	1.5 mfd	.00019	23 x 36	1.0 x 35
SE200	2.0 mfd	.00021	25 x 38	1.0 x 35
SY220	2.2 mfd	.00023	24 x 38	1.0 x 35
SB270	2.7 mfd	.00025	20 x 38	1.0 x 35
SB330	3.3 mfd	.00027	24 x 38	1.0 x 35
SB390	3.9 mfd	.00029	26 x 38	1.0 x 35
SA470	4.7 mfd	.00031	25 x 38	1.2 x 35