

# 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**

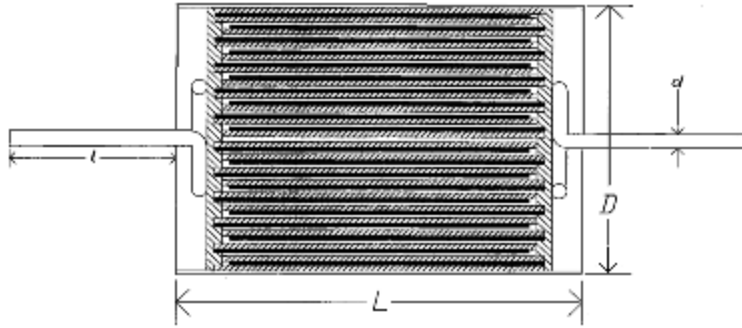
Capacitance : .01 ... 22 uF, E 12 series, +-3 %, typ. 1% (see  
Range/Tolerance specifications for details)  
Dielectric Constant : 2.1 er, non-polar dielectric.  
Dielectric Absorption : Less Than .05 % @ 20°C.  
Factor  
Equivalent Series : Extremely Low (see specifications for details)  
Resistance  
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.  
: 100 VDC/63 VAC, 150 VDC/100 VAC, 250  
VDC/160 VAC  
Rated Voltage : 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, 1.2, 1.6 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	D x L	d 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
SA560	5.6 mfd .00033	40 x 45	1.6 x 50
SA680	6.8 mfd .00035	44 x 45	1.6 x 50
SA820	8.2 mfd .00037	49 x 45	1.6 x 50
SA1000BN	10 mfd .00039	52 x 45	1.6 x 50
SA1200BN	12 mfd .00041	57 x 45	1.6 x 50
SA1500BN	15 mfd .00043	64 x 45	1.6 x 50
SA1800BN	18 mfd .00045	70 x 45	1.6 x 50
SA2200BN	22 mfd .00048	77 x 45	1.6 x 50