

# SOLEN TEFLON™ FEP FILM & TIN FOIL CAPACITORS

- **GENERAL INFORMATION**

Type : Tin Foil / Teflon™ FEP Film Capacitor.  
Dielectric : Biaxially Oriented Teflon™ FEP Film.  
Construction : Round Tubular "Square Aspect Ratio" Type, Axial Leads.  
Coating : Green Plastic Tape Wrapped, Grey 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**

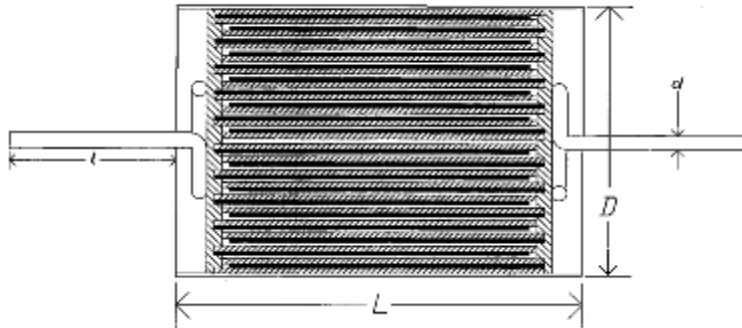
Capacitance Range/Tolerance : .033 ... .82 uF, E 24 series, +-5 %, typ. 2% (see specifications for details)  
Dielectric Constant : 2.0 er, non-polar dielectric.  
Dielectric Absorbtion Factor : Less Than .05 % @ 20°C.  
Equivalent Series Resistance : Extremely Low (see specifications for details)  
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 : -40°C to +130°C.  
Test Voltage : 1.5 x Vr for 5 sec.  
Rated Voltage : 450 VDC/300 VAC, 1000 VDC/400 VAC.  
Dielectric Thickness : 5.5 micron, 10 micron.  
Metal Layers Thickness : 5 micron  
Leads Diameter : 1.2, 1.8 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.  
Unrivaed 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  
TEFLON™ FEP FILM & TIN FOIL

S3Q 450Vdc/300Vac

P/N	Capacitance/DF	x L	x l
S3Q47N	.047 mfd .00004	8 x 36	1.2 x 40
S3Q100N	.10 mfd .00007	9 x 36	1.2 x 40
S3Q220N	.22 mfd .00008	13 x 36	1.2 x 40
S3Q330N	.33 mfd .00009	15 x 36	1.2 x 40
S3Q470N	.47 mfd .00010	18 x 36	1.2 x 40
S3Q680N	.68 mfd .00012	21 x 36	1.2 x 40
S3Q820N	.82 mfd .00013	23 x 36	1.2 x 40

Dissipation Factor (%) ±10%  
Dimensions (mm) ±10%

S3ZQ 1000Vdc/400Vac

P/N	Capacitance/DF	x L	x l
S3ZQ33N	.033 mfd .00003	9 x 36	1.2 x 40
S3ZQ47N	.047 mfd .00004	11 x 36	1.2 x 40
S3ZQ68N	.068 mfd .00005	13 x 36	1.8 x 40
S3ZQ82N	.082 mfd .00006	14 x 36	1.8 x 40
S3ZQ100N	.10 mfd .00007	16 x 36	1.8 x 40
S3ZQ220N	.22 mfd .00008	23 x 36	1.8 x 40
S3ZQ330N	.33 mfd .00009	28 x 36	1.8 x 40
S3ZQ470N	.47 mfd .00010	33 x 36	1.8 x 40