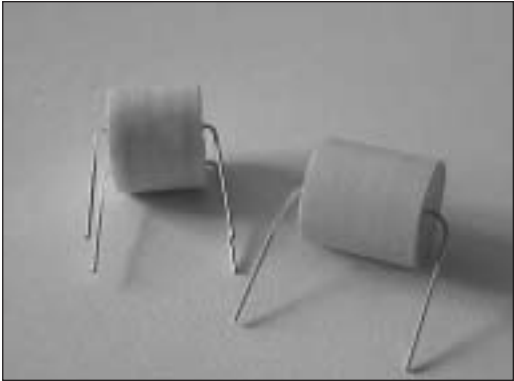


Medium Power Film Capacitors



FSV



GENERAL DESCRIPTION

Metallized dielectric capacitor and metal foil, low serial inductance and high RMS current.

APPLICATIONS

- Protection of semi conductors
- High frequency decoupling
- Tuning

PACKAGING

- Cylindrical with polyester tape wrapping, sealed with polyurethane resin
- Radial connections

ELECTRICAL CHARACTERISTICS

Capacitance Range Cn	0.010μF to 0.15μF
Tolerance on Cn	10%
Rated DC Voltage Vndc	600 to 2000 V
Rated AC Voltage	300 to 650 Vrms
Test Voltage between terminals @ 25°C	1.5 Vndc during 10s
High dV/dt	10000 V/μs
RMS Current	Irms max = up to 23A The currents shown in the tables are maximum. It is necessary to respect the thermal limits of the dielectric 85°C See "Hot spot temperature calculation"
Working Temperature	-40°C +85°C (according to the power to be dissipated)
Climatic Category	40/085/56 (IEC 60068)
Hot Spot Calculation	For all applications, the temperature in the hot spot capacitor must be lower than 85°C $\Theta_{\text{Hot spot}} = \Theta_{\text{ambient}} + (\tan\delta_0 \times Q + R_s I_{\text{rms}}^2) \times R_{\text{th}}$ With $\tan\delta_0 = 2 \cdot 10^{-4}$ Q in vars R_s in Ω I_{rms} in A R_{th} in °C/W

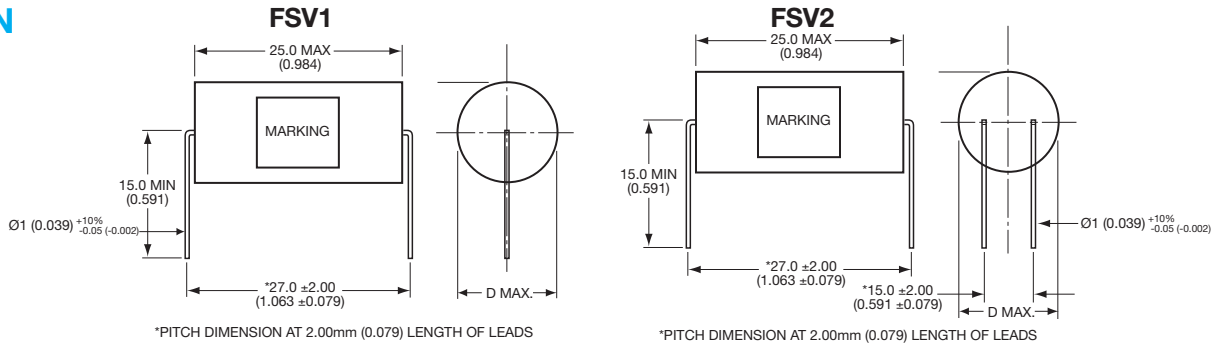
PROTECTION

Medium Power Film Capacitors



FSV

DESIGN



PROTECTION

References	Capacitance (µF)	D max. mm (in)	Irms A	Rs (mΩ)	Rth °C/W
FSV 600 V Vndc = 600V Vrms = 300V					
FSV16K0683K--	0.068	22 (0.866)	10	2.5	35
FSV26K0104K--	0.10	25 (0.984)	15	2.1	25
FSV26K0154K--	0.15	30 (1.181)	23	1.8	17
FSV 800 V Vndc = 800V Vrms = 400V					
FSV16B0473K--	0.047	22 (0.866)	10	2.6	33
FSV26B0683K--	0.068	25 (0.984)	15	2.2	23
FSV26B0823K--	0.082	28 (1.102)	18	2.1	21
FSV26B0104K--	0.100	30 (1.181)	23	1.9	16
FSV 1000 V Vndc = 1000V Vrms = 450V					
FSV16L0333K--	0.033	22 (0.866)	8	2.8	31
FSV26L0473K--	0.047	25 (0.984)	12	2.3	22
FSV26L0683K--	0.068	30 (1.181)	17	2.0	16
FSV 1200 V Vndc = 1200V Vrms = 500V					
FSV16U0223K--	0.022	22 (0.866)	7	3.2	34
FSV26U0333K--	0.033	25 (0.984)	10	2.2	23
FSV26U0473K--	0.047	30 (1.181)	14	2.1	16
FSV 1500 V Vndc = 1500V Vrms = 600V					
FSV16R0153K--	0.015	22 (0.866)	5	3.5	34
FSV26R0223K--	0.022	25 (0.984)	8	2.8	22
FSV26R0333K--	0.033	30 (1.181)	12	2.2	16
FSV 2000 V Vndc = 2000V Vrms = 650V					
FSV16N0103K--	0.010	22 (0.866)	5	3.4	34
FSV26N0153K--	0.015	25 (0.984)	7	2.9	21
FSV26N0203K--	0.020	27 (1.063)	10	2.4	16
FSV26N0223K--	0.022	30 (1.181)	11	2.4	14