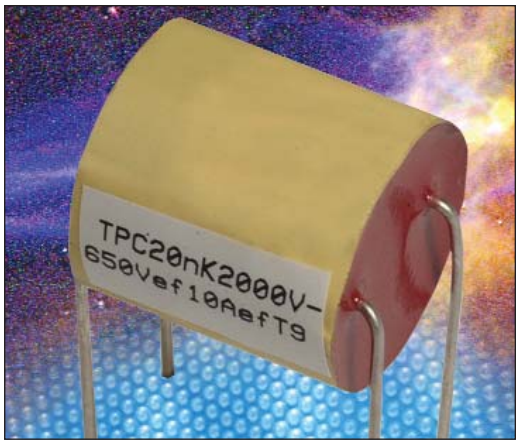
Medium Power Film Capacitors

FSV (RoHS Compliant)



GENERAL DESCRIPTION

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

APPLICATIONS

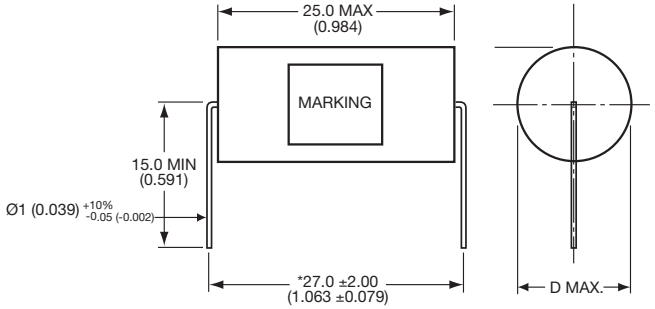
- Protection of semi conductors
- High frequency decoupling
- Tunning

PACKAGING MATERIAL

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

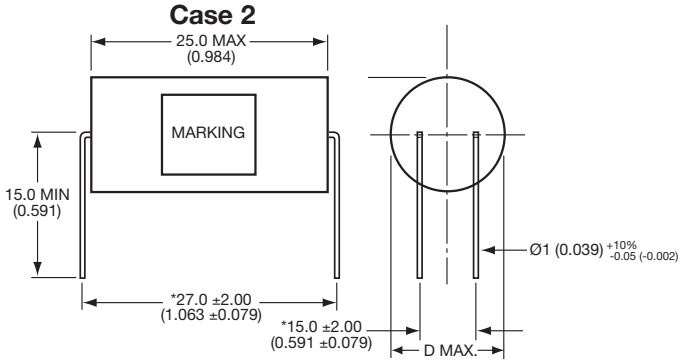
DIMENSIONS

Case 1



*PITCH DIMENSION AT 2.00mm (0.079) LENGTH OF LEADS

Case 2



*PITCH DIMENSION AT 2.00mm (0.079) LENGTH OF LEADS

HOW TO ORDER

FSV	1	6	K	0683	K	– –
Series	**Case Size** Case Size 1 Case Size 2	**Dielectric** 6 = Polypropylene	**Voltage Code** K = 600Vdc B = 800Vdc L = 1000Vdc U = 1200Vdc R = 1500Vdc N = 2000Vdc	**Capacitance Code** 0 + pF code 0683 = 0.068µF 0333 = 0.033µF 0203 = 0.020µF etc.	**Capacitance Tolerances** K = ±10%	**Voltage Range** – – = Standard

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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	*See Hot Spot Temperature page 3* For all applications, the temperature in the hot spot capacitor must be lower than 85°C Θ Hot spot = Θ ambient + (tanδ_0 x Q + Rs I_{rms}^2) x Rth With tg δ *o* = 2.10^{-4} Q in vars Rs in Ω Irms in A Rth in °C/W
Dieleictric	Polypropylene

RATINGS AND PART NUMBER REFERENCE

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