

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 epoxy resin
- Radial connections

ELECTRICAL CHARACTERISTICS

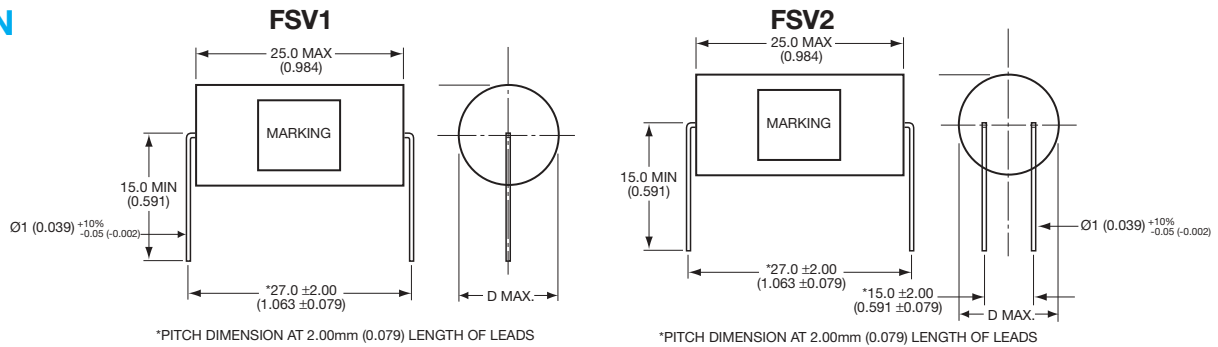
Capacitance Range Cn	0.010 μ F to 0.15 μ F
Tolerance on Cn	10%
Rated DC Voltage Vndc	600 to 2000 V
Rated AC Voltage	300 to 650 Vrms
Test Voltage between terminals @ 25°C	1.5 Vndc during 10s
High dV/dt	10000 V/ μ s
RMS Current	Irms max = up to 23A The currents shown in the tables are maximum. It is necessary 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 \emptyset Hot spot = \emptyset case + (tg $\delta\omega \times Q + R_s I_{rms}^2$) $\times R_{th}$ With tg $\delta\omega = 2 \cdot 10^{-4}$ Q in vars R_s in Ω Irms in A R_{th} in °C/W

Medium Power Film Capacitors



FSV

DESIGN



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
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
FSV26N0223K--	0.022	30 (1.181)	11	2.4	14

NOTICE: Specifications are subject to change without notice. Contact your nearest AVX Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all applications.

USA

AVX Myrtle Beach, SC Corporate Offices
 Tel: 843-448-9411
 FAX: 843-626-5292

AVX Northwest, WA
 Tel: 360-669-8746
 FAX: 360-699-8751

AVX North Central, IN
 Tel: 317-848-7153
 FAX: 317-844-9314

AVX Mid/Pacific, MN
 Tel: 952-974-9155
 FAX: 952-974-9179

AVX Southwest, AZ
 Tel: 480-539-1496
 FAX: 480-539-1501

AVX South Central, TX
 Tel: 972-669-1223
 FAX: 972-669-2090

AVX Southeast, NC
 Tel: 919-878-6223
 FAX: 919-878-6462

AVX Canada
 Tel: 905-564-8959
 FAX: 905-564-9728

EUROPE

AVX Limited, England European Headquarters
 Tel: ++44 (0) 1252 770000
 FAX: ++44 (0) 1252 770001

AVX S.A., France
 Tel: ++33 (1) 69.18.46.00
 FAX: ++33 (1) 69.28.73.87

AVX GmbH, Germany - AVX
 Tel: ++49 (0) 8131 9004-0
 FAX: ++49 (0) 8131 9004-44

AVX GmbH, Germany - Elco
 Tel: ++49 (0) 2741 2990
 FAX: ++49 (0) 2741 299133

AVX srl, Italy
 Tel: ++390 (0)2 614571
 FAX: ++390 (0)2 614 2576

AVX Czech Republic, s.r.o.
 Tel: ++420 (0)467 558340
 FAX: ++420 (0)467 558345

ASIA-PACIFIC

AVX/Kyocera, Singapore Asia-Pacific Headquarters
 Tel: (65) 258-2833
 FAX: (65) 350-4880

AVX/Kyocera, Hong Kong
 Tel: (852) 2-363-3303
 FAX: (852) 2-765-8185

AVX/Kyocera, Korea
 Tel: (82) 2-785-6504
 FAX: (82) 2-784-5411

AVX/Kyocera, Taiwan
 Tel: (886) 2-2696-4636
 FAX: (886) 2-2696-4237

AVX/Kyocera, China
 Tel: (86) 21-6249-0314-16
 FAX: (86) 21-6249-0313

AVX/Kyocera, Malaysia
 Tel: (60) 4-228-1190
 FAX: (60) 4-228-1196

Elco, Japan
 Tel: 045-943-2906/7
 FAX: 045-943-2910

Kyocera, Japan - AVX
 Tel: (81) 75-604-3426
 FAX: (81) 75-604-3425

Kyocera, Japan - KDP
 Tel: (81) 75-604-3424
 FAX: (81) 75-604-3425



A KYOCERA GROUP COMPANY

<http://www.avxcorp.com>

S-FSV00M402-N