



Film Capacitors

XG-V

For Interference Suppression and Across-The-Line, Class X2



DESCRIPTION

XG-V type is self-healing flat style capacitor, which is wound with polypropylene film dielectric, flame retardant plastic case and epoxy resin end seal. Following styles belong to this type :

- 1) XG-VS : Tinned Copper Clad Steel Wire Radial Leads
- 2) XG-VP : UL 1015 or UL 1007 AWG#20 ~ 22 Solid PVC Insulation Wire Radial Leads

This type especially is designed for radio interference suppression and across-the line capacitors in :

- 1) Business Machines Appliances, such as : Typewriters, Adding Machines, Computer Displays and Monitors
- 2) Household Appliances, such as : Mixers, Fans, Coffee Grinders, Audio and TV Circuits
- 3) Thyristor and Triac Appliances, such as : Dimmers

DIAGRAM OF DIMENSIONS

W	13.0	18.0	26.5	31.5	37.0	45.0	53.0
S	10.0	15.0	22.5	27.5	32.5	40.0	47.5
ød	0.6	0.8	0.8	0.8	0.8	1.0	1.0

W	PVC WIRE
18	AWG22#
≥ 26.5	AWG20#

ELECTRICAL CHARACTERISTICS

Climate Category : In Accordance with DIN 40040 GPF

- (a) G = Minimum Limit Temperature : -40°C
- (b) P = Maximum Limit Temperature : +85°C
- (c) F = Humidity Category : Average Relative Humidity \pm 75%, 95% for 30 Days Per Year, Continuously; 85% for the Remaining Days, Occasionally

Rated Voltage : 250/275 V.AC, 50 ~ 60 Hz

Capacitance Range : 0.0047 ~ 4.7 μ F

Capacitance Tolerance : J (\pm 5%), K (\pm 10%), M (\pm 20%)

Withstand Voltage :

- (a) Between Terminals : 1500 V.AC, 60 Hz or 2200 V.DC 1Sec.
- (b) Between Terminals and Case : 2000 V.AC, 60 Hz 60 Sec.

Dissipation Factor :

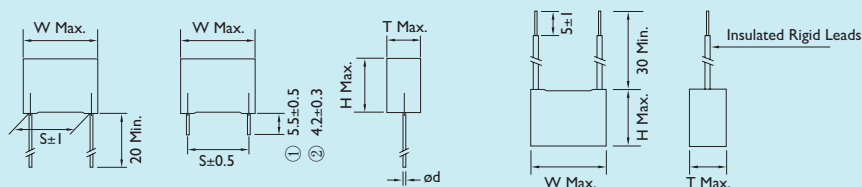
- (a) \leq 0.1% at 1 KHz and 20°C
- (b) \leq 0.3% at 10 KHz and 20°C

Insulation Resistance :

- (a) Between Terminals : $\geq 3 \times 10^4 \text{ M}\Omega$ for $C \leq 0.33\mu\text{F}$
 $\geq 1 \times 10^4 \text{ M}\Omega \cdot \mu\text{F}$ for $C > 0.33\mu\text{F}$
- (b) Between Terminals and Case : $\geq 3 \times 10^4 \text{ M}\Omega$

Measured at 100 \pm 15 V.DC, 60 Sec. and 20°C

Dimensions : mm

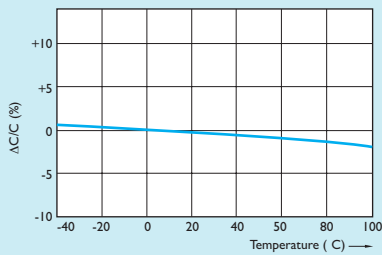


APPROVAL DATA

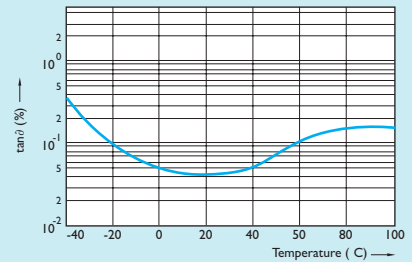
COUNTRY	SPECIFICATIONS	FILE AND REF. NO.
UL = USA	UL 1414	E81959 (N) (0.0047 μ F ~ 1.0 μ F, 250V.AC)
CSA = Canada	C 22.2 No. 1-94	LR 5738-4 (0.0047 μ F ~ 1.0 μ F, 250 V.AC)
VDE = Germany	DIN VDE 0565 Teil 1/12 . 79	47744 (0.0047 μ F ~ 2.2 μ F, 275 V.AC)
	EN 132400 (IEC 384-14II)	83655 (0.0047 μ F ~ 2.2 μ F, 275 V.AC)
SEMKO = Sweden	EN132400 : 1994/IEC60384-14 Second Edition:1993/A1:1995	9848135/01 (0.0047 μ F ~ 2.2 μ F, 275V.AC)
NEMKO = Norway	EN132400 : 94/IEC384-14 Ed.2:93 Including Am.1:1995	P98102928 (0.0047 μ F ~ 2.2 μ F, 275V.AC)
DEMKO = Denmark	EN132400/IEC60384-14, Sec. Edit. 1993/A1	308248 (0.0047 μ F ~ 2.2 μ F, 275V.AC)
FI = Filand	EN132400 (1994)/IEC384-14 Ed.2 (1993) Including Am. 1 (1995)	F11964 (0.0047 μ F ~ 2.2 μ F, 275V.AC)
SEV = Switzerland	EN 132400 : 1994	97,.1 10043, 02 (0.01 μ F ~ 1.0 μ F, 275 V.AC)
TÜV = Germany	Din VDE 0565 T 1/12.79 Din VDE 0565 T 1/12.79 A1: 06.84	R9452643 (0.0047 μ F ~ 4.7 μ F, 275 V.AC)
CB Test Certificate	IEC 384-14 Table 11 2nd (1993) EN 132400 (1994) CECC 32400 : 1992	DE-1-6358 (0.0047 μ F ~ 2.2 μ F, 275V.AC)

TEMPERATURE AND FREQUENCY CHARACTERISTICS

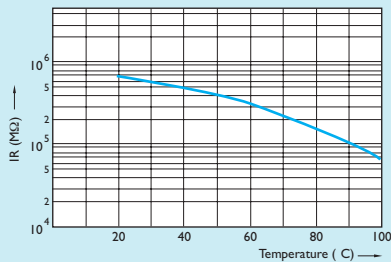
Capacitance Change vs. Temperature (Typical Values)



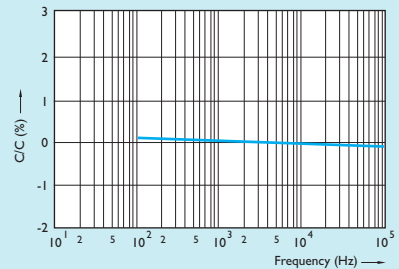
Dissipation Factor vs. Temperature at 10 KHz (Typical Values)



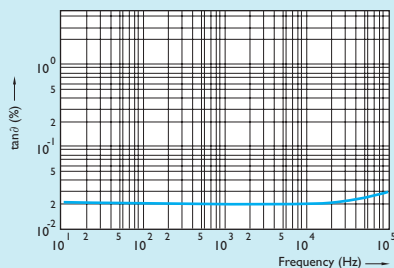
Insulation Resistance vs. Temperature (Typical Values)



Capacitance Change vs. Frequency (Typical Values)



Dissipation Factor vs. Temperature (Typical Values)





CASE SIZE OF STANDARD PRODUCTS

Dimensions : mm

CAPACITANCE (μ F)	RATED VOLTAGE (V.A.C)	W	H	T
0.0047		13.0	11.0	5.0
0.0056		13.0	11.0	5.0
0.0068		13.0	11.0	5.0
0.0082		13.0	11.0	5.0
0.01		13.0	11.0	5.0
0.012		13.0	11.0	5.0
0.015		13.0	11.0	5.0
0.018		13.0	11.0	5.0
0.022		13.0	11.0	5.0
0.027		13.0	11.0	5.0
0.027		13.0	12.0	6.0
0.033 @		13.0	11.0	5.0
0.033		13.0	12.0	6.0
0.039		18.0	11.0	5.0
0.047		18.0	11.0	5.0
0.056		18.0	11.0	5.0
0.056		18.0	12.0	6.0
0.068		18.0	12.0	6.0
0.082		18.0	12.0	6.0
0.082		18.0	13.5	6.0
0.1 @	250 / 275	18.0	12.0	6.0
0.1 #		18.0	13.5	6.0
0.1		18.0	13.5	7.5
0.1		26.5	15.0	6.0
0.12 *		18.0	13.5	6.0
0.12		18.0	13.5	7.5
0.12		26.5	15.0	6.0
0.15 *		18.0	13.5	7.5
0.15		18.0	14.5	8.5
0.15		26.5	15.0	6.0
0.15		26.5	16.0	7.0
0.18		18.0	14.5	8.5
0.18		26.5	15.0	6.0
0.18		26.5	16.0	7.0
0.22		18.0	16.5	8.5
0.22 @		26.5	15.0	6.0
0.22		26.5	16.0	7.0
0.27		26.5	16.0	7.0
0.27		26.5	17.0	8.5
0.33		26.5	17.0	8.5
0.33		31.5	17.0	9.0
0.39		26.5	17.0	8.5

CASE SIZE OF STANDARD PRODUCTS

Dimensions : mm

CAPACITANCE (μF)	RATED VOLTAGE (V.AC)	W	H	T
0.39		26.5	19.0	10.0
0.39		31.5	17.0	9.0
0.47 *		26.5	17.5	9.5
0.47		26.5	19.0	10.0
0.47 *		31.5	17.0	9.0
0.47		31.5	18.5	10.5
0.56 *		26.5	19.0	10.0
0.56		26.5	20.0	10.5
0.56		31.5	20.0	11.0
0.60		31.5	18.5	10.5
0.60		31.5	20.0	11.0
0.68 @		31.5	18.5	10.5
0.68		31.5	20.0	11.0
0.82 @		31.5	20.0	11.0
0.82		31.5	22.5	13.0
1.0		31.5	22.5	13.0
1.0		31.5	25.0	14.0
1.0		37.0	24.0	13.5
1.2 @	250 / 275	31.5	22.5	13.0
1.2		31.5	25.0	14.0
1.2		37.0	24.0	13.5
1.5 @		31.5	25.0	14.0
1.5		31.5	30.0	15.0
1.5 @		37.0	24.0	13.5
1.5		37.0	26.5	16.0
1.8		31.5	30.0	15.0
1.8		31.5	33.0	18.0
1.8		37.0	26.5	16.0
1.8		37.0	28.5	18.0
2.2		31.5	33.0	18.0
2.2		37.0	28.5	18.0
2.7		45.0	28.0	17.0
2.7		45.0	29.5	18.5
3.3		45.0	29.5	18.5
3.3		45.0	31.5	20.5
3.9		45.0	31.5	20.5
3.9		45.0	33.0	22.5
4.7		53.0	34.0	22.5

Dim. Code # Only Apply for XG-VS

Dim. Code * Only Apply for XG-VS, Toc. : " K ", " M "

Dim. Code @ Only Apply for XG-VS, Toc. : " M "