

RADIO INTERFERENCE SUPPRESSION X2 CAPACITORS

X2 Series

INTRODUCTION :

◆ **X2 Series** capacitor are constructed with polypropylene film dielectric with vacuum-evaporated metal electrodes, radial leads of tinned wire are electrically welded to the contact metal layer on the ends of capacitor winding, encapsulated in reinforced flame resistant plastic case sealed with epoxy resin meeting the requirement of UL 94V-O.

◆ **X2 Series** capacitor are ideal for using in line-by-pass, antenna coupling, across-the-line and (spark killer circuit), also available for FMI filter and Switching power supply application.

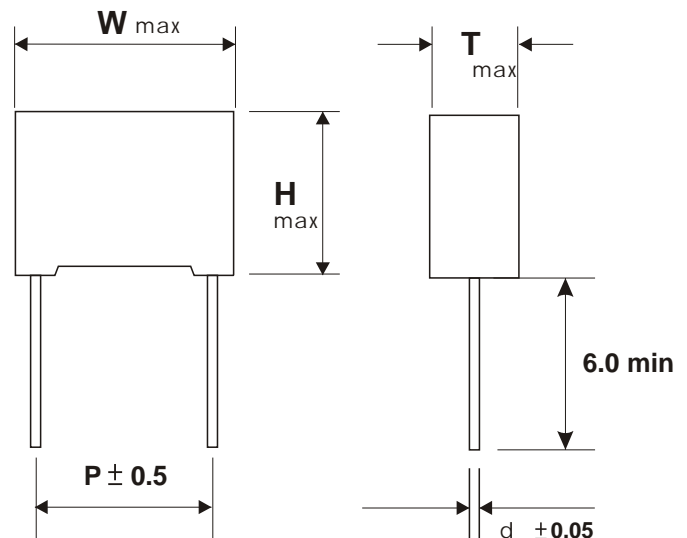
FEATURES :

- ◆ High stability of capacitance and DF versus wide temperature and frequency range.
- ◆ High transient endurance and high dielectric strength.
- ◆ Real long-term stability.

SPECIFICATION :

- 1. REFERENCE STANDARD :**
IEC 384-14 (2nd Edition, 1993)
- 2. CAPACITANCE RANGE :** 0.001 ~ 1.0 μ F.
- 3. CAPACITANCE TOLERANCE :**
 $\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M).
- 4. RATED VOLTAGE :** 275 VAC.
- 5. CLIMATIC CATALOGUE :** 40 / 85 / 21 (GPF)
- 6. DISSIPATION FACTOR (DF) :**
 $\leq 0.1\%$ max when measured at 1 K Hz, 20°C.
- 7. VOLTAGE PROFF :** 2000 VDC 1s at 20°C.

OUTLINE DRAWING



8. INSULATION RESISANCE (IR) :

- i) if $C \leq 0.33 \mu\text{F}$ $IR \geq 15,000 \text{ M}\Omega$.
- ii) if $C > 0.33 \mu\text{F}$ $IR \times C > 5,000 \text{ M}\Omega$.
(1 minute at 20°C and $RH \leq 65\%$)

9. ENDURANCE :

The test voltage 344 VAC shall be applied for 1000 hours in the 85 chamber. Duriling this period, 1000 VAC 60 Hz for a period of 0.1 sec. be applied once each hour.
 $\Delta C/C \leq 10\%$, $\Delta Df \leq 0.04\%$, $IR \geq 50\%$ of Specified value.



RADIO INTERFERENCE SUPPRESSION X2 CAPACITORS

X2 Series

DIMENSION :

Unit : mm

SYMBOL	μ F	W	H	T	P	d ϕ
102	0.0010	13.0	9.0	4.0	10.0	0.6
122	0.0012	13.0	9.0	4.0	10.0	0.6
152	0.0015	13.0	9.0	4.0	10.0	0.6
182	0.0018	13.0	9.0	4.0	10.0	0.6
222	0.0022	13.0	9.0	4.0	10.0	0.6
272	0.0027	13.0	9.0	4.0	10.0	0.6
332	0.0033	13.0	11.0	5.0	10.0	0.6
392	0.0039	13.0	11.0	5.0	10.0	0.6
472	0.0047	13.0	11.0	5.0	10.0	0.6
562	0.0056	13.0	11.0	5.0	10.0	0.6
682	0.0068	13.0	11.0	5.0	10.0	0.6
822	0.0082	13.0	11.0	5.0	10.0	0.6
103	0.010	13.0	11.0	5.0	10.0	0.6
123	0.012	13/18	11.0	5.0	10/15	0.6
153	0.015	13/18	11.0	5.0	10/15	0.6
183	0.018	13/18	11.0	5.0	10/15	0.6
223	0.022	13/18	11.0	5.0	10/15	0.6
273	0.027	13/18	12.0	6.0	10/15	0.6
333	0.033	13/18	12.0	6.0	10/15	0.6
393	0.039	13/18	11.0	5.0	10/15	0.8
473	0.047	13/18	11.0	5.0	10/15	0.8
563	0.056	13/18	12.0	6.0	10/15	0.8
683	0.068	13/18	12.0	6.0	10/15	0.8
823	0.082	13/18	13.5	7.5	10/15	0.8
104	0.10	13/18	13.5	7.5	10/15	0.8
124	0.12	13/18	13.5	7.5	10/15	0.8
154	0.15	18.0	14.5	8.5	15.0	0.8
154	0.15	18.0	16.5	7.0	15.0	0.8
184	0.18	18.0	16.5	7.0	15.0	0.8
224	0.22	18.0	17.0	8.5	15.0	0.8
274	0.27	26.5	17.0	8.5	22.5	0.8
334	0.33	26.5	19.0	10.0	22.5	0.8
394	0.39	26.5	19.0	10.0	22.5	0.8
474	0.47	26.5	19.0	10.0	22.5	0.8
474	0.47	32.0	20.0	11.0	27.5	0.8
564	0.56	32.0 / 26.5	20.0	11.0	27.5 / 22.5	0.8
684	0.68	32.0 / 26.5	22.0	13.0	27.5 / 22.5	0.8
824	0.82	32.0 / 26.5	22.0	13.0	27.5 / 22.5	0.8
105	1.0	32.0 / 26.5	22.0	13.0	27.5 / 22.5	0.8