

AC-Capacitors, Suppression Capacitors Class X2 AC 440V (MKT)

| LEAD LENGTH X (mm) | ORDERING CODE** |
|-----------------------|-------------------------|
| 4 ⁻¹ | F1772-... - 4204 / 4264 |
| 6 ⁻¹ | F1772-... - 4200 / 4260 |
| 15 ⁻¹ | F1772-... - 4215 / 4265 |
| 30 ⁺⁵ | F1772-... - 4230 / 4263 |

REFERENCE STANDARDS:

- EN 132 400, 1994
- EN 60068-1
- IEC 60384-14/2, 1993
- UL 1283
- UL 1414
- CSA 22.2 No. 8-M 86
- CSA 22.2 No. 1-M 90

DIELECTRIC:

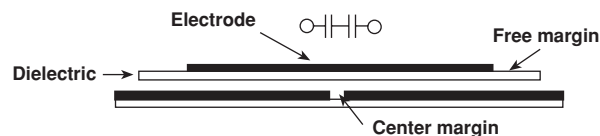
Polyester film

ELECTRODES:

Metal evaporated

CONSTRUCTION:

Metallized film capacitor
Internal series connection



MAXIMUM PULSE RISE TIME: (d_u/d_t) in V/μs

| RATED VOLTAGE | PITCH (mm) | | | |
|------------------|------------|------|------|------|
| | 15.0 | 22.5 | 27.5 | 37.5 |
| AC 440V | 200 | 150 | 100 | 100 |

RATED VOLTAGE:

AC 440V, 50/60Hz

PERMISSIBLE DC VOLTAGE:

DC 1000V

TERMINALS:

Radial tinned copper wire

COATING:

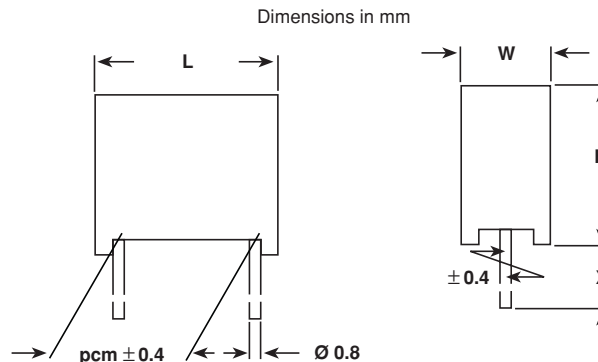
Plastic case, epoxy resin sealed, flame retardant
UL 94V-0

**CLIMATIC TESTING CLASS ACC. TO
EN 60068-1:**

40/100/56

CAPACITANCE RANGE:

E6 series 0.01μFX2 - 1.0μFX2
E12 values on request



CAPACITANCE TOLERANCE:

Standard: ± 20%

DISSIPATION FACTOR TANδ:

< 1% measured at 1kHz

INSULATION RESISTANCE: FOR C ≤ 0.33μF:

30 GΩ average value
15 GΩ minimum value

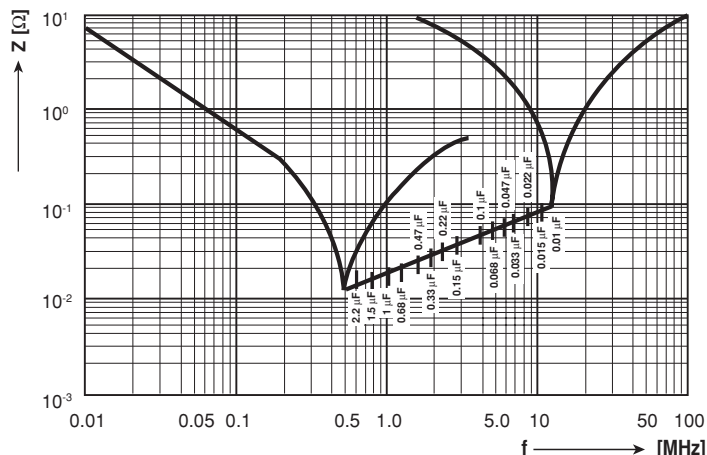
TIME CONSTANT FOR C > 0.33μF:

10 000 sec. average value
5 000 sec. minimum value

TEST VOLTAGE:

(Electrode/electrode): DC 2150V/2 sec.

Between interconnected terminations and case (foil method):
AC 2500V for 2 sec. at 25°C.



Impedance (Z) as a function of frequency (f)
at T_a = 20°C (average).
Measurement with lead length 6mm.

FURTHER TECHNICAL DATA:

See page 21 (Document No 26504)



APPROVALS

| COUNTRY | SPECIFICATION | ELECTRICAL VALUES | APPROVAL REFERENCE | APPROVAL MARK |
|---|--|---|------------------------|-----------------|
| U.S.A. (for AC 250V) | UL 1283 UL 1414 | 0.01 - 1.0 μ FX 0.01 - 1.0 μ FX | E 76297 E 100682 | |
| Canada (for AC 250V) | C 22.2 No. 8-M 1986 C 22.2 No. 1-M 1994 | 0.01 - 1.0 μ FX 0.01 - 0.82 μ FX | LR 64546 LR 64546-8 | |
| CB TEST-CERTIFICATE (for AC 440V) | | 0.01 - 1.0 μ FX2 | DE 1-8221 | |
| Germany | EN 132 400, 1999 IEC 60384 -14, 2nd edition, 1995 | 0.01 - 1.0 μ FX2 | 94616 | |
| This approval mark together with the CB-Certificate replace all national approval marks of the following countries (they have already signed the CB-Agreement): | | | | |
| Austria | Belgium | Denmark | Finland | Sweden |
| France | Germany | Ireland | Italy | Switzerland |
| Netherlands | Israel | Portugal | Spain | Great Britain |
| Japan | Norway | China | Poland | Czech. Republic |
| Singapore | Rep. of Korea | Hungary | Iceland | Slovenia |

| CAPACITANCE | TOL. (%) | PITCH (mm) | BOX NO. | DIMENSIONS W x H x L (mm) (+ 0.2/- 0.4mm) | WEIGHT | QUANTITY | ORDERING CODE** |
|-----------------|-----------------|-------------------|---------|---|-----------------------------|---|-----------------|
| | | | | | LEAD LENGTH 6-1mm (g) | PACKAGE LEAD LENGTH < = 6-1mm (pcs)* | |
| 0.01 μ FX2 | \pm 20 | 15.0 | 05 | 5.3 x 10.3 x 17.8 | 1.4 | 750 | F1772-310-42 .. |
| 0.015 μ FX2 | \pm 20 | 15.0 | 49 | 6.0 x 12.0 x 17.9 | 2.0 | 600 | F1772-315-42 .. |
| 0.022 μ FX2 | \pm 20 | 15.0 | 07 | 7.3 x 13.3 x 17.8 | 2.0 | 450 | F1772-322-42 .. |
| 0.033 μ FX2 | \pm 20 | 15.0 | 08 | 8.3 x 14.3 x 17.8 | 2.7 | 325 | F1772-333-42 .. |
| 0.047 μ FX2 | \pm 20 | 22.5 | 09 | 6.3 x 14.3 x 26.3 | 3.3 | 260 | F1772-347-42 .. |
| 0.047 μ FX2 | \pm 20 | 15.0 | 28 | 8.3 x 17.3 x 17.8 | 3.5 | 300 | F1772-347-426 . |
| 0.068 μ FX2 | \pm 20 | 22.5 | 11 | 7.3 x 15.3 x 26.3 | 4.1 | 235 | F1772-368-42 .. |
| 0.068 μ FX2 | \pm 20 | 15.0 | 35 | 10.3 x 17.3 x 17.8 | 4.3 | 225 | F1772-368-426 . |
| 0.1 μ FX2 | \pm 20 | 22.5 | 12 | 8.3 x 16.3 x 26.3 | 4.6 | 200 | F1772-410-42 .. |
| 0.1 μ FX2 | \pm 20 | 15.0 | 36 | 13.3 x 22.3 x 17.8 | 4.2 | 185 | F1772-410-426 . |
| 0.15 μ FX2 | \pm 20 | 27.5 | 29 | 8.8 x 18.3 x 31.3 | 6.8 | 160 | F1772-415-42 .. |
| 0.15 μ FX2 | \pm 20 | 22.5 | 13 | 10.3 x 18.3 x 26.3 | 6.7 | 170 | F1772-415-426 . |
| 0.22 μ FX2 | \pm 20 | 27.5 | 14 | 11.0 x 20.3 x 31.3 | 9.1 | 125 | F1772-422-42 .. |
| 0.22 μ FX2 | \pm 20 | 22.5 | 27 | 12.3 x 19.8 x 26.3 | 8.7 | 125 | F1772-422-426 . |
| 0.33 μ FX2 | \pm 20 | 27.5 | 15 | 13.0 x 23.3 x 31.3 | 12.9 | 110 | F1772-433-42 .. |
| 0.33 μ FX2 | \pm 20 | 22.5 | 38 | 15.3 x 26.3 x 26.3 | 14.3 | 110 | F1772-433-426 . |
| 0.47 μ FX2 | \pm 20 | 37.5 | 44 | 12.0 x 22.3 x 41.3 | 15.2 | 90 | F1772-447-42 .. |
| 0.47 μ FX2 | \pm 20 | 27.5 | 17 | 16.0 x 29.3 x 31.3 | 20.0 | 85 | F1772-447-426 . |
| 0.68 μ FX2 | \pm 20 | 37.5 | 19 | 15.5 x 28.3 x 41.3 | 24.0 | 70 | F1772-468-42 .. |
| 0.68 μ FX2 | \pm 20 | 27.5 | 40 | 17.8 x 32.8 x 31.3 | 24.4 | 80 | F1772-468-426 . |
| 1.0 μ FX2 | \pm 20 | 37.5 | 20 | 17.8 x 32.3 x 41.3 | 31.6 | 60 | F1772-510-42 .. |
| 1.0 μ FX2 | \pm 20 | 27.5 | 41 | 19.5 x 34.8 x 31.3 | 29.5 | 70 | F1772-510-426 . |

Inbuilt discharging resistor on request (with larger case dimensions).

* Further information about packaging quantities with different lead length and/or taped versions.

See page 16 (Document No 27608 Packing Quantities). Use Box No. as reference

** These capacitors can be delivered on continuous tape and reel - see page 14/15 (Document Number 26535).

The ordering code is: F1772- ... - 4290 at H = 16.5mm

F1772- ... - 4291 at H = 18.5mm

F1772- ... - 4960 at H = 16.5mm

F1772- ... - 4961 at H = 18.5mm