

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

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

RATED VOLTAGE:

AC 440V, 50/60Hz

PERMISSIBLE DC VOLTAGE:

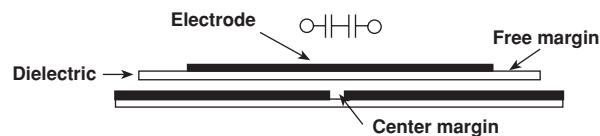
DC 1000V

COATING:

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

CONSTRUCTION:

Metallized film capacitor
Internal series connection



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

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

TERMINALS:

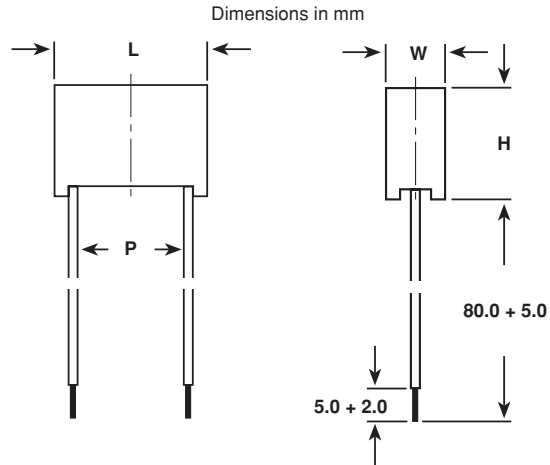
Insulated stranded copper wire, type LiY 0.5mm² (or AWG 20) ends stripped and tinned or insulated solid copper wire, type YV (d = 0.8mm) with stripped ends on request.

CLIMATIC TESTING CLASS ACC. TO EN 60068-1:

40/100/56

CAPACITANCE RANGE:

E12 series 0.01 μ FX2 - 1.0 μ FX2
preferred values acc. to E6



CAPACITANCE TOLERANCE:

Standard: $\pm 10\%$

DISSIPATION FACTOR TAN δ :

< 1% measured at 1kHz

INSULATION RESISTANCE: FOR C \leq 0.33 μ F:

30 G Ω average value
15 G Ω minimum value

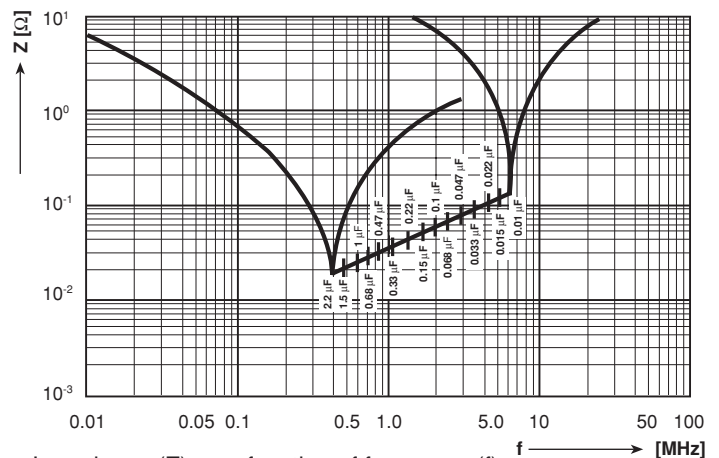
TIME CONSTANT FOR C > 0.33 μ F:

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 80mm.

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 P (mm) | BOX NO. | DIMENSIONS W x H x L (mm) (+ 0.2/- 0.4mm) | WEIGHT (g) | QUANTITY PACKAGE (pcs) | ORDERING CODE** |
|------------------------|-------------|--------------------|------------|---|---------------|------------------------------|--------------------------|
| 0.01 μ FX2 | ± 10 | 15.0 | 06 | 6.3 x 12.3 x 17.8 | 3.2 | 850 | F1774-310-4 . . . |
| 0.012 μ FX2 | ± 10 | 15.0 | 06 | 6.3 x 12.3 x 17.8 | 3.2 | 850 | F1774-312-4 . . . |
| 0.015 μ FX2 | ± 10 | 15.0 | 07 | 7.3 x 13.3 x 17.8 | 3.6 | 800 | F1774-315-4 . . . |
| 0.018 μ FX2 | ± 10 | 15.0 | 07 | 7.3 x 13.3 x 17.8 | 3.6 | 800 | F1774-318-4 . . . |
| 0.022 μ FX2 | ± 10 | 15.0 | 8 | 8.3 x 14.3 x 17.8 | 3.9 | 800 | F1774-322-4 . . . |
| 0.027 μ FX2 | ± 10 | 15.0 | 08 | 8.3 x 14.3 x 17.8 | 3.9 | 800 | F1774-327-4 . . . |
| 0.033 μ FX2 | ± 10 | 15.0 | 28 | 8.3 x 17.3 x 17.8 | 3.9 | 800 | F1774-333-4 . . . |
| 0.039 μ FX2 | ± 10 | 22.5* | 09 | 6.3 x 14.3 x 26.3 | 4.5 | 650 | F1774-339-4 . . . |
| 0.047 μ FX2 | ± 10 | 22.5* | 11 | 7.3 x 15.3 x 26.3 | 5.3 | 500 | F1774-347-4 . . . |
| 0.056 μ FX2 | ± 10 | 22.5* | 12 | 8.3 x 16.3 x 26.3 | 5.8 | 500 | F1774-356-4 . . . |
| 0.068 μ FX2 | ± 10 | 22.5* | 12 | 8.3 x 16.3 x 26.3 | 5.8 | 500 | F1774-368-4 . . . |
| 0.082 μ FX2 | ± 10 | 22.5* | 12 | 8.3 x 16.3 x 26.3 | 5.8 | 500 | F1774-382-4 . . . |
| 0.10 μ FX2 | ± 10 | 22.5* | 13 | 10.3 x 18.3 x 26.3 | 7.9 | 500 | F1774-410-4 . . . |
| 0.12 μ FX2 | ± 10 | 22.5* | 13 | 10.3 x 18.3 x 26.3 | 7.9 | 500 | F1774-412-4 . . . |
| 0.15 μ FX2 | ± 10 | 27.5* | 14 | 11.0 x 20.3 x 31.3 | 10.3 | 350 | F1774-415-4 . . . |
| 0.18 μ FX2 | ± 10 | 27.5* | 14 | 11.0 x 20.3 x 31.3 | 10.3 | 350 | F1774-418-4 . . . |
| 0.22 μ FX2 | ± 10 | 27.5* | 15 | 13.0 x 23.3 x 31.3 | 14.1 | 300 | F1774-422-4 . . . |
| 0.27 μ FX2 | ± 10 | 27.5* | 15 | 13.0 x 23.3 x 31.3 | 12.9 | 300 | F1774-427-4 . . . |
| 0.33 μ FX2 | ± 10 | 27.5* | 18 | 14.5 x 24.3 x 31.3 | 16.2 | 250 | F1774-433-4 . . . |
| 0.39 μ FX2 | ± 10 | 37.5* | 44 | 12.0 x 22.3 x 41.3 | 16.4 | 225 | F1774-439-4 . . . |
| 0.47 μ FX2 | ± 10 | 37.5* | 16 | 14.0 x 24.3 x 41.3 | 20.1 | 200 | F1774-447-4 . . . |
| 0.56 μ FX2 | ± 10 | 37.5* | 19 | 15.5 x 28.3 x 41.3 | 25.2 | 150 | F1774-456-4 . . . |
| 0.68 μ FX2 | ± 10 | 37.5* | 19 | 15.5 x 28.3 x 41.3 | 25.2 | 150 | F1774-468-4 . . . |
| 0.82 μ FX2 | ± 10 | 37.5* | 20 | 17.8 x 32.3 x 41.3 | 32.8 | 100 | F1774-482-4 . . . |
| 1.0 μ FX2 | ± 10 | 37.5* | 42 | 19.5 x 39.8 x 41.3 | 45.4 | 75 | F1774-510-4 . . . |

Preferred values in bold print.

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

*Different pitch on request.

**With and , the ordering code is F1774- . . . - 4400.