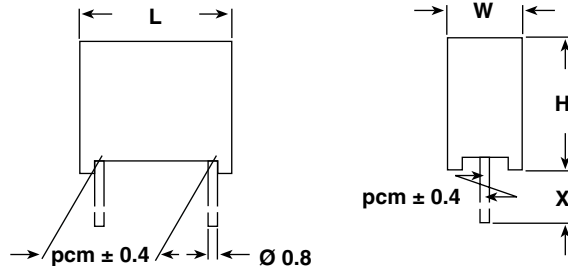
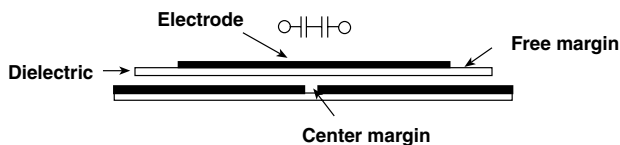


AC-Capacitors, Suppression Capacitors Class X2 AC 275 V (MKT)

Dimensions in mm



LEAD LENGTH X (mm)	ORDERING CODE**
4 ⁻¹	F1772-...-2004
6 ⁻¹	F1772-...-2000
15 ⁻¹	F1772-...-2015
30 ⁺⁵	F1772-...-2030


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

RATED VOLTAGE	PITCH (mm)			
	15.0	22.5	27.5	37.5
AC 275 V	200	150	100	100

RATED VOLTAGE:

AC 275 V, 50/60 Hz

PERMISSIBLE DC VOLTAGE:

DC 630 V

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:

 E12 series 0.01 μ FX2 - 2.2 μ FX2
preferred values acc. to E6

FEATURES:

 Product is completely lead (Pb)-free
Product is RoHS compliant

CAPACITANCE TOLERANCE:

 Standard: $\pm 10\%$
DISSIPATION FACTOR TAN δ :
 $< 1\%$ measured at 1 KHz

INSULATION RESISTANCE: FOR $C \leq 0.33 \mu$ F:

 30 G Ω average value
15 G Ω minimum value

TIME CONSTANT FOR $C > 0.33 \mu$ F:

 10 000 sec. average value
5000 sec. minimum value

TEST VOLTAGE:

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

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:

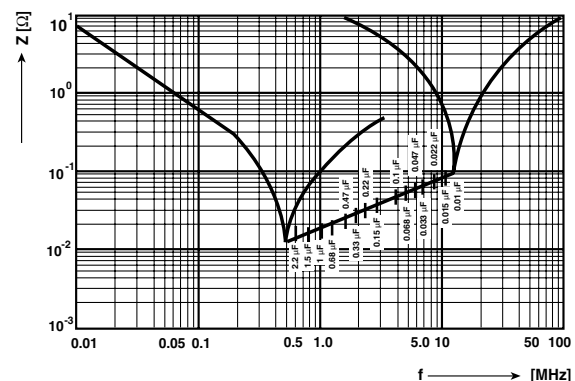
Polyester film

ELECTRODES:




Metal evaporated

CONSTRUCTION:

 Metallized film capacitor
Internal series connection

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

 Impedance (Z) as a function of frequency (f) at $T_a = 20\text{ }^\circ\text{C}$
(average). Measurement with lead length 6 mm.

APPROVALS

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	APPROVAL REFERENCE	APPROVAL MARK
U.S.A. (for AC 250 V)	UL 1283 UL 1414	0.01 - 2.2 µFX 0.01 - 1.0 µFX	E 76297 E 100682	
Canada (for AC 250 V)	C 22.2 No. 8-M 1986 C 22.2 No. 1-M 1994	0.01 - 2.2 µFX 0.01 - 0.82 µFX	LR 64546 LR 64546-8	
CB TEST-CERTIFICATE (for AC 275 V)		0.01 - 2.2 µFX2	DE 1-8790	
Germany	EN 132 400; 1999-06 IEC 60384-14, 2nd edition; 1993-07, Table II + A1: 1995-06	0.01 - 2.2 µFX2	40005079	
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/- 0.4 mm)	WEIGHT LEAD LENGTH 6 ⁻¹ mm (g)	QUANTITY PACKAGE LEAD LENGTH < = 6 ⁻¹ mm (pcs)**	ORDERING CODE***
0.01 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-310-20 ..
0.012 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-312-20 ..
0.015 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-315-20 ..
0.018 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-318-20 ..
0.022 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-322-20 ..
0.027 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-327-20 ..
0.033 µFX2	± 10	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-333-20 ..
0.039 µFX2	± 10	15.0	06	6.3 x 12.3 x 17.8	2.0	500	F1772-339-20 ..
0.047 µFX2	± 10	15.0	06	6.3 x 12.3 x 17.8	2.0	500	F1772-347-20 ..
0.056 µFX2	± 10	15.0	06	6.3 x 12.3 x 17.8	2.0	500	F1772-356-20 ..
0.068 µFX2	± 10	15.0	07	7.3 x 13.3 x 17.8	2.4	450	F1772-368-20 ..
0.082 µFX2	± 10	15.0	08	8.3 x 14.3 x 17.8	2.7	325	F1772-382-20 ..
0.1 µFX2	± 10	15.0*	08	8.3 x 14.3 x 17.8	2.7	325	F1772-410-20 ..
0.12 µFX2	± 10	15.0*	08	8.3 x 14.3 x 17.8	2.7	325	F1772-412-20 ..
0.15 µFX2	± 10	22.5*	11	7.3 x 15.3 x 26.3	4.1	235	F1772-415-20 ..
0.18 µFX2	± 10	22.5*	11	7.3 x 15.3 x 26.3	4.1	235	F1772-418-20 ..
0.22 µFX2	± 10	22.5*	12	8.3 x 16.3 x 26.3	4.6	200	F1772-422-20 ..
0.27 µFX2	± 10	22.5*	13	10.3 x 18.3 x 26.3	6.7	170	F1772-427-20 ..
0.33 µFX2	± 10	22.5*	13	10.3 x 18.3 x 26.3	6.7	170	F1772-433-20 ..
0.39 µFX2	± 10	27.5*	14	11.0 x 20.3 x 31.3	9.1	125	F1772-439-20 ..
0.47 µFX2	± 10	27.5*	14	11.0 x 20.3 x 31.3	9.1	125	F1772-447-20 ..
0.56 µFX2	± 10	27.5*	14	11.0 x 20.3 x 31.3	9.1	125	F1772-456-20 ..
0.68 µFX2	± 10	27.5*	15	13.0 x 23.3 x 31.3	12.9	110	F1772-468-20 ..
0.82 µFX2	± 10	27.5*	15	13.0 x 23.3 x 31.3	15.0	100	F1772-482-20 ..
1.0 µFX2	± 10	27.5*	18	14.5 x 24.3 x 31.3	15.0	100	F1772-510-20 ..
1.2 µFX2	± 10	37.5*	16	14.0 x 24.3 x 41.3	18.9	80	F1772-512-20 ..
1.5 µFX2	± 10	37.5*	19	15.5 x 28.3 x 41.3	18.9	80	F1772-515-20 ..
1.8 µFX2	± 10	37.5*	19	15.5 x 28.3 x 41.3	24.0	70	F1772-518-20 ..
2.2 µFX2	± 10	37.5*	20	17.8 x 32.3 x 41.3	31.6	60	F1772-522-20 ..

Preferred values in bold print.

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

* Different pitch on request.

** Further information about packaging quantities with different lead length and/or taped versions see Document No 27608 (Packing Quantities)
Use Box No as reference

*** These capacitors can be delivered on continuous tape and reel - see page 12/13 (Document Number 27622).

The ordering code is F1772-...-2900 at H = 16.5 mm, F1772-...-2901 at H = 18.5 mm.

**APPLICATION NOTES**

- For X2 electromagnetic interference suppression in **across the line applications** (50/60 Hz) with a maximum mains voltage of 275 V (AC).
- These capacitors are not intended for continuous pulse applications. For these situations, capacitors of the AC and pulse programs must be used.
- These capacitors can be used for series impedance application in case safety approvals are requested.
- The maximum ambient temperature must not exceed 100 °C.
- Rated voltage pulse slope:
If the pulse voltage is lower than the rated voltage, the values of the specific reference data can be multiplied by 385 V (DC) and divided by the applied voltage.



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