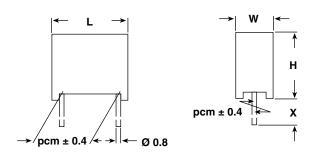


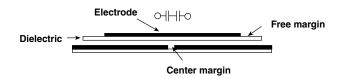
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AC-Capacitors, Suppression Capacitors Class X2 AC 275 V (MKT)

Dimensions in mm



LEAD LENGTH X (mm)	ORDERING CODE**		
4-1	F17722004		
6 ⁻¹	F17722000		
15 ⁻¹	F17722015		
30 ⁺⁵	F17722030		



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

RATED	PITCH (mm)				
VOLTAGE	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: ± 10 %

e3

DISSIPATION FACTOR TAN δ :

< 1 % measured at 1 KHz

ROHS

INSULATION RESISTANCE: FOR C \leq 0.33 µF:

30 G Ω average value 15 G Ω minimum value

TIME CONSTANT FOR C > 0.33 μ 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

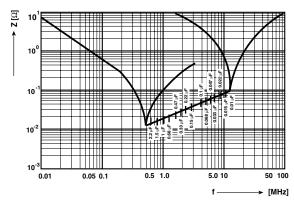
ELECTRODES:

Metal evaporated

CONSTRUCTION:

Metallized film capacitor Internal series connection

Between interconnected terminations and case (foil method): AC 2500 V for 2 sec. at 25 $^{\circ}$ C.



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

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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	71	
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	(1)	
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		10 🕸	
This ap	oproval mark together with the CB-Ce (they have	rtificate replace all national app already signed the CB-Agreem	•	ountries	
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	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	80	8.3 x 14.3 x 17.8	2.7	325	F1772-382-20
0.1 μFX2	± 10	15.0*	80	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.

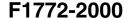
Inbuilt discharging resistor on request (with larger case dimensions).

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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.





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

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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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