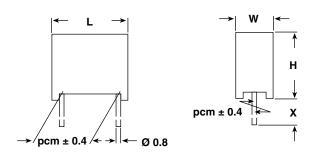


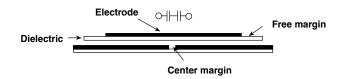
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AC-Capacitors, Suppression Capacitors Class X2 AC 275 V (MKT)

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 TANδ:

< 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

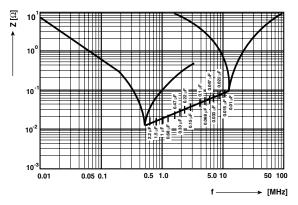
ELECTRODES:

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	Al	
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	·		
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 PE	
This a	pproval 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 S		Great Britain	
Japan	Norway	China	Poland	Czech. Republic	
Singapore	Rep. of Korea	Hungary	Iceland	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.

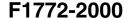
Inbuilt discharging resistor on request (with larger case dimensions).

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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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