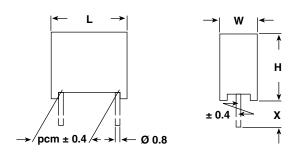
F1772-3200

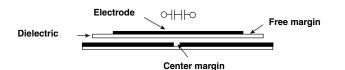


AC-Capacitors, Suppression Capacitors Class X2 AC 300 V (MKT)

Dimensions in mm



LEAD LENGTH X (mm)	ORDERING CODE**		
4 ⁻¹	F17723204/3264		
6 ⁻¹	F17723200/3260		
15 ⁻¹	F17723215/3265		
30 ⁺⁵	F17723230/3263		



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

RATED	PITCH (mm)			
VOLTAGE	15.0	22.5	27.5	37.5
AC 300 V	200	150	100	100

RATED VOLTAGE:

AC 300 V, 50/60 Hz

PERMISSIBLE DC VOLTAGE:

DC 800 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 E12 values on request

FURTHER TECHNICAL DATA:

See page 21 (Document No 26504)

FEATURES:

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

CAPACITANCE TOLERANCE:

Standard: ± 20 %

DISSIPATION FACTOR TAN δ : < 1 % measured at 1 kHz

INSULATION RESISTANCE: FOR C \leq 0.33 μF :

30 G Ω average value 15 G Ω minimum value

TIME CONSTANT FOR C > 0.33 µF:

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

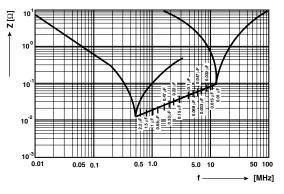
ELECTRODES:

Metal evaporated

CONSTRUCTION:

Metallized film capacitor Internal series connection

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



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	81	
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	S	
CB TEST-CERTIFIC	ATE (for AC 300 V)	0.01 - 2.2 μFX2	DE 1-8791		
Germany	EN 132 400; 1999 IEC 60384-14, 2nd edition, 1995	(1) (1 - 2)			
This ap	proval mark together with the CB-Cer (they have a	rtificate replace all national app already signed the CB-Agreem	•	ountries	
Austria	Belgium	Denmark	Finland	d Sweden	
France	Germany	Ireland	Italy	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	± 20	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-310-32
0.015 μFX2	± 20	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-315-32
0.022 μFX2	± 20	15.0	05	5.3 x 10.3 x 17.8	1.4	750	F1772-322-32
0.033 µFX2	± 20	15.0	49	6.0 x 12.0 x 17.9	2.0	600	F1772-333-32
0.047 µFX2	± 20	15.0	49	6.0 x 12.0 x 17.9	2.1	600	F1772-347-32
0.068 μFX2	± 20	15.0	07	7.3 x 13.3 x 17.8	2.7	450	F1772-368-32
0.1 μFX2	± 20	15.0	08	8.3 x 14.3 x 17.8	4.1	325	F1772-410-32
0.15 μFX2	± 20	22.5	11	7.3 x 15.3 x 26.3	4.3	235	F1772-415-32
0.15 µFX2	± 20	15.0	35	10.3 x 17.3 x 17.8	4.3	225	F1772-415-326.
0.22 μFX2	± 20	22.5	12	8.3 x 16.3 x 26.3	6.8	200	F1772-422-32
0.22 μFX2	± 20	15.0	36	13.3 x 22.3 x 17.8	7.1	185	F1772-422-326.
0.33 µFX2	± 20	27.5	29	8.8 x 18.3 x 31.3	8.0	160	F1772-433-32
0.33 μFX2	± 20	22.5	13	10.3 x 18.3 x 26.3	6.7	170	F1772-433-326.
0.47 μFX2	± 20	27.5	14	11.0 x 20.3 x 31.3	10.0	125	F1772-447-32
0.47 μFX2	± 20	22.5	27	12.3 x 19.8 x 26.3	8.7	125	F1772-447-326.
0.68 μFX2	± 20	27.5	15	13.0 x 23.3 x 31.3	14.2	110	F1772-468-32
0.68 μFX2	± 20	22.5	38	15.3 x 26.3 x 26.3	14.3	110	F1772-468-326.
1.0 μFX2	± 20	27.5	17	16.3 x 29.3 x 31.3	22.5	85	F1772-510-32
1.0 μFX2	± 20	22.5	20	17.8 x 29.3 x 26.3	18.3	90	F1772-510-326.
1.5 μFX2	± 20	37.5	70	15.5 x 28.3 x 41.3	26.1	70	F1772-515-32
1.5 μFX2	± 20	27.5	40	17.8 x 32.8 x 31.3	24.4	80	F1772-515-326.
2.2 μFX2	± 20	37.5	20	17.8 x 32.3 x 41.3	33.4	60	F1772-522-32

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 27622).

The ordering code is: F1772-. . .-3290 at H = 16.5 mm

F1772-. . .-3291 at H = 18.5 mm

F1772-. . .-3960 at H = 16.5 mm F1772-. . .-3961 at H = 18.5 mm



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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 300 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 420 V (DC) and divided by the applied voltage.



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