

## AC-Capacitors, Suppression Capacitors Class X2 AC 300V (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 300V, 50/60Hz

**PERMISSIBLE DC VOLTAGE:**

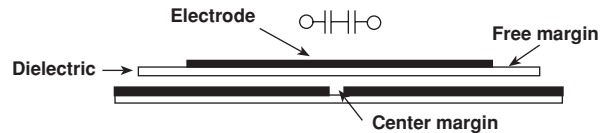
DC 800V

**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/ $\mu$ s**

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

**TERMINALS:**

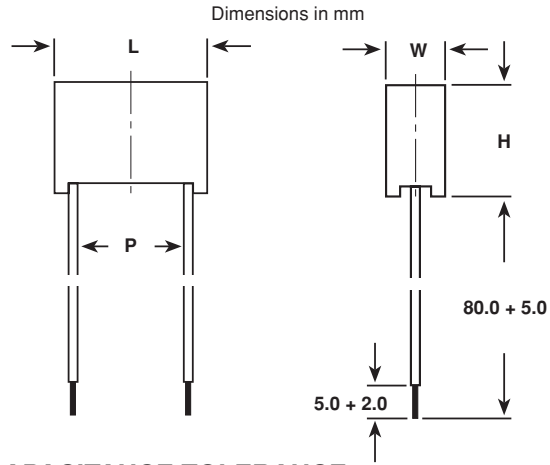
Insulated stranded copper wire, type LiY 0.5mm<sup>2</sup> (or AWG 20) ends stripped and tinned or insulated solid copper wire, type YV (d = 0.8mm) with stripped ends on request.

**CLIMATIC TESTING CLASS ACC. TO EN 60068-1:**

40/100/56

**CAPACITANCE RANGE:**

E6 series 0.01 $\mu$ FX2 - 2.2 $\mu$ FX2  
E12 values on request



**CAPACITANCE TOLERANCE:**

Standard:  $\pm 20\%$

**DISSIPATION FACTOR TAND:**

< 1% measured at 1kHz

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

30 G $\Omega$  average value  
15 G $\Omega$  minimum value

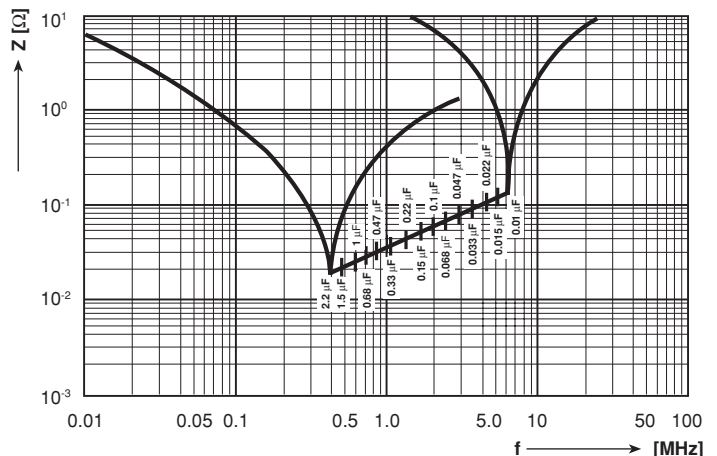
**TIME CONSTANT FOR C > 0.33 $\mu$ F:**

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  $T_a = 20^\circ\text{C}$  (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 - 2.2 $\mu$ FX 0.01 - 1.0 $\mu$ 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 - 2.2 $\mu$ FX 0.01 - 0.82 $\mu$ FX	LR 64546 LR 64546-8	
<b>CB TEST-CERTIFICATE (for AC 300V)</b>		0.01 - 2.2 $\mu$ FX2	DE 1-8791	
Germany	EN 132 400, 1999 IEC 60384-14, 2nd edition, 1995	0.01 - 2.2 $\mu$ FX2	108808	
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 $\mu$ FX2	$\pm 20$	15.0	05	5.3 x 10.3 x 17.8	2.6	1000	F1774-310-32 ..
0.015 $\mu$ FX2	$\pm 20$	15.0	05	5.3 x 10.3 x 17.8	2.6	1000	F1774-315-32 ..
0.022 $\mu$ FX2	$\pm 20$	15.0	05	5.3 x 10.3 x 17.8	2.6	1000	F1774-322-32 ..
0.033 $\mu$ FX2	$\pm 20$	15.0	49	6.0 x 12.0 x 17.9	3.2	900	F1774-333-32 ..
0.047 $\mu$ FX2	$\pm 20$	15.0	49	6.0 x 12.0 x 17.9	3.3	900	F1774-347-32 ..
0.068 $\mu$ FX2	$\pm 20$	15.0	07	7.3 x 13.3 x 17.8	3.9	800	F1774-368-32 ..
0.1 $\mu$ FX2	$\pm 20$	15.0	08	8.3 x 14.3 x 17.8	4.1	800	F1774-410-32 ..
0.15 $\mu$ FX2	$\pm 20$	22.5	11	7.3 x 15.3 x 26.3	5.5	500	F1774-415-32 ..
0.15 $\mu$ FX2	$\pm 20$	15.0	35	10.3 x 17.3 x 17.8	5.5	500	F1774-415-326 .
0.22 $\mu$ FX2	$\pm 20$	22.5	12	8.3 x 16.3 x 26.3	8.0	500	F1774-422-32 ..
0.22 $\mu$ FX2	$\pm 20$	15.0	36	13.3 x 22.3 x 17.8	8.3	400	F1774-422-326 ..
0.33 $\mu$ FX2	$\pm 20$	27.5	29	8.8 x 18.3 x 31.3	9.2	450	F1774-433-32 ..
0.33 $\mu$ FX2	$\pm 20$	22.5	13	10.3 x 18.3 x 26.3	7.9	500	F1774-422-326 .
0.47 $\mu$ FX2	$\pm 20$	27.5	14	11.0 x 20.3 x 31.3	11.2	350	F1774-447-32 ..
0.47 $\mu$ FX2	$\pm 20$	22.5	27	12.3 x 19.8 x 26.3	9.9	400	F1774-422-326 .
0.68 $\mu$ FX2	$\pm 20$	27.5	15	13.0 x 23.3 x 31.3	15.4	300	F1774-468-32 ..
0.68 $\mu$ FX2	$\pm 20$	22.5	38	15.3 x 26.3 x 26.3	15.5	250	F1774-422-326 .
1.0 $\mu$ FX2	$\pm 20$	27.5	17	16.3 x 29.3 x 31.3	23.7	175	F1774-510-32 ..
1.0 $\mu$ FX2	$\pm 20$	22.5	20	17.8 x 29.3 x 26.3	19.5	200	F1774-422-326 .
1.5 $\mu$ FX2	$\pm 20$	37.5	70	15.5 x 28.3 x 41.3	27.3	150	F1774-515-32 ..
1.5 $\mu$ FX2	$\pm 20$	27.5	40	17.8 x 32.8 x 31.3	24.4	150	F1774-422-326 .
2.2 $\mu$ FX2	$\pm 20$	37.5	20	17.8 x 32.3 x 41.3	34.6	100	F1774-522-32 ..

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

\*With and , the ordering code is F1774- . . . - 3240, F1774- . . . - 3264.



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