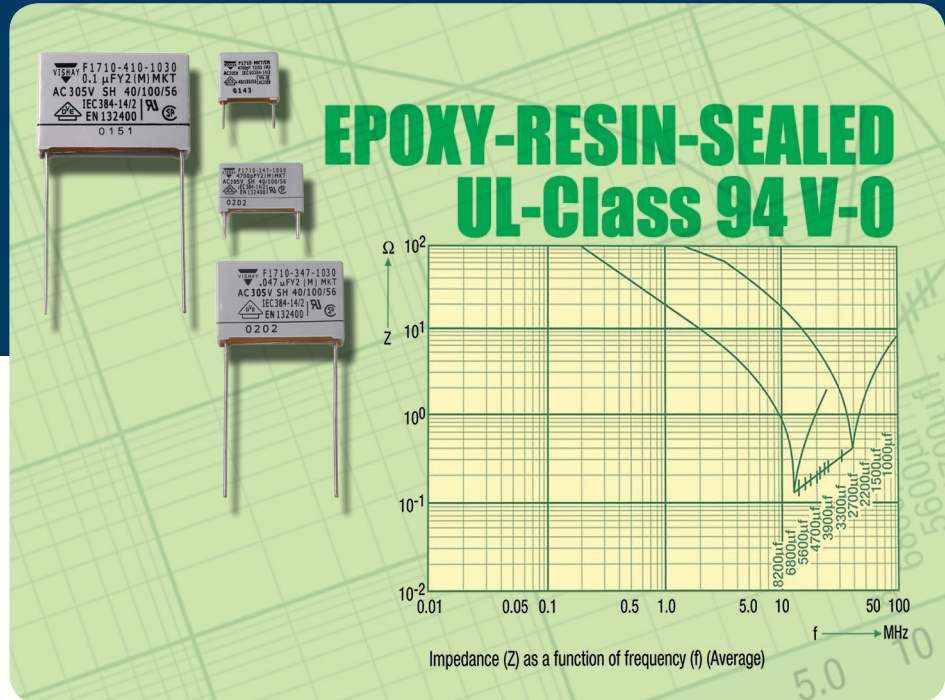




# AC CAPACITORS, SUPPRESSION CAPACITORS

F1710-305V

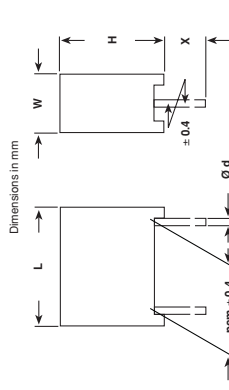


## Polyester AC Capacitor, Class Y2 (X1), 305V (MKT)

### KEY BENEFITS

- Dielectric: polyester film
- Electrodes: evaporated metal
- Construction: metallized film, 10 pcm to 27.5 pcm
- Rated voltage: 305 VAC, 50/60 Hz
- Permissible DC voltage: 1000 VDC
- Capacitance range: 0.001  $\mu$ F to 0.1  $\mu$ F
- Leads: radial-tinned lead (Pb)-free copper wire
- Coating: plastic case, epoxy-resin-sealed, flame-retardant UL-class 94 V-0
- Excellent self-healing properties
- RoHS compliant

### AC Capacitors, Suppression Capacitors Class Y2 (X1) AC 305 V (MKT)



LEAD LENGTH (X) (mm)	Code	Pos.11	8	9	10	11-13
4.1	B	1710	...	3	...	C, O
6.1	C	1710	...	3	...	D, O
15.1	D	1710	...	3	...	L, O
30.5	L	1710	...	3	...	L, O

Pitch Code	Terminal Ød (mm)
D	0.6
P	0.8

**FEATURES:** Product is available completely lead (Pb)-free

**REFERENCE STANDARDS:**  
 EN/IEC 60068, IEC 60384-14/2:1993/07  
 UL 1414; CSA C22.2 No. 1-M 1994

**DIELECTRIC:** Polyester film

**ELECTRODES:** Metal evaporated

**RATED VOLTAGE:** AC305V; 50/60Hz

**PERMISSIBLE DC VOLTAGE:** DC:1000V

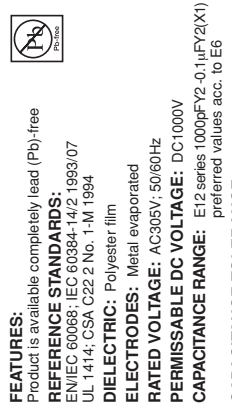
**CAPACITANCE RANGE:** E12 series 1000pF<sup>2</sup>-0.1µF<sup>2</sup>(X1) preferred values acc. to E6

**CAPACITANCE TOLERANCE:** Standard ± 20%; on request ± 10% and ± 5%

**TERMINALS:** Radial lined copper wire

**COATING:** Plastic case, epoxy resin sealed, flame retardant; UL 94V-0

**CLIMATIC TESTING CLASS ACC. TO**



**EN/IEC 60068-1:** 40/100/56

**TEST VOLTAGE:** (Electrode/electrode): DC 5000V for 1 sec. at 25°C; Between interconnected terminations and case (foil method) AC 2500V for 2 sec. at 25°C

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

**INSULATION RESISTANCE:** 30 GΩ average value  
 15 GΩ average value

**FURTHER TECHNICAL DATA:** See page 71 (Document Number 26525)

RATED VOLTAGE	PITCH (mm)	PITCH (mm)
AC-305V	10.0/15.0	22.5
	200	150
		100

LEAD LENGTH (X) (mm)	Code	Pos.11	8	9	10	11-13
4.1	B	1710	...	3	...	C, O
6.1	C	1710	...	3	...	D, O
15.1	D	1710	...	3	...	L, O
30.5	L	1710	...	3	...	L, O

CAPACITANCE Code Pos 5-7 (as class Y2 and X1)	TOLERANCE J = ± 5% K = ± 10% M = ± 20%	PITCH (mm)	BOX Code Pos.10	NO	QUANTITY PACKAGE (Lead Length ≤ 6"mm)	WEIGHT (g)	DIMENSIONS W x H x L (mm) <sup>0.2, 0.4mm</sup>	ORDERING CODE**
1000 pF	M	10.0	D	32	3.8 x 8.8 x 12.8	0.6	1500	1710 210 M 3 D -B0
1200 pF	M	10.0	D	32	3.8 x 8.8 x 12.8	0.6	1500	1710 212 M 3 D -B0
1500 pF	M	10.0	D	32	3.8 x 8.8 x 12.8	0.6	1500	1710 215 M 3 D -B0
1800 pF	M	10.0	D	32	3.8 x 8.8 x 12.8	0.6	1500	1710 218 M 3 D -B0
2200 pF	M	10.0	D	02	4.3 x 9.3 x 12.8	0.8	1250	1710 222 M 3 D -B0
2700 pF	M	10.0	D	03	5.3 x 10.3 x 12.8	1.0	1000	1710 227 M 3 D -B0
3300 pF	M	10.0	D	03	5.3 x 10.3 x 12.8	1.0	1000	1710 233 M 3 D -B0
3900 pF	M	10.0	D	03	5.3 x 10.3 x 12.8	1.0	1000	1710 239 M 3 D -B0
4700 pF	M	10.0	D	03	5.3 x 10.3 x 12.8	1.0	1000	1710 247 M 3 D -B0
5600 pF	M	10.0	D	04	6.3 x 11.3 x 12.8	1.3	750	1710 256 M 3 D -B0
6800 pF	M	10.0	D	04	6.3 x 11.3 x 12.8	1.3	750	1710 268 M 3 D -B0
8200 pF	M	10.0	D	04	6.3 x 11.3 x 12.8	1.3	750	1710 282 M 3 D -B0
0.010 µF	M	10.0	D	04	6.3 x 12.3 x 12.8	1.3	750	1710 310 M 3 D -B0

\* Further information about packaging quantities with different lead length and/or taped versions. See page 16 (Document No.27608 Packaging Quantities). Use Box No. as reference

\*\* These capacitors can be ordered on continuous tape and reel see page 14/15 (Document Number 27622)

Ordering example: 1710210 M 2 D C80

Bo = Bulk Pack  
 To = Tray/Pallet



CAPACITANCE Code Pos 5-7 (as class Y2 and X1)	TOLERANCE J = ± 5% K = ± 10% M = ± 20%	PITCH (mm)	BOX Code Pos.10	NO	DIMENSIONS W x H x L (mm) <sup>0.2, 0.4mm</sup>	WEIGHT (Lead Length 6"mm)	QUANTITY PACKAGE (Lead Length ≤ 6"mm)	ORDERING CODE**
1000 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 210 M 3 F -B0
1200 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 212 M 3 F -B0
1500 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 215 M 3 F -B0
1800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 218 M 3 F -B0
2200 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 222 M 3 F -B0
2700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 227 M 3 F -B0
3300 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 233 M 3 F -B0
3900 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 239 M 3 F -B0
4700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 247 M 3 F -B0
5600 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 256 M 3 F -B0
6800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710 268 M 3 F -B0
8200 pF	M	15	F	05	5.3 x 12.3 x 17.8	2.0	500	1710 282 M 3 F -B0
0.01 µF	M	15	F	05	6.3 x 12.3 x 17.8	2.0	500	1710 310 M 3 F -B0
0.015 µF	M	15	F	07	7.3 x 13.3 x 17.8	2.4	450	1710 315 M 3 F -B0
0.018 µF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710 318 M 3 F -B0
0.022 µF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710 322 M 3 F -B0
0.027 µF	M	22.5	I	09	6.3 x 14.3 x 26.3	3.5	260	1710 327 M 3 I -B0
0.033 µF	M	22.5	I	11	7.3 x 15.3 x 26.3	3.9	235	1710 339 M 3 I -B0
0.039 µF	M	22.5	I	12	8.3 x 16.3 x 26.3	4.8	200	1710 347 M 3 I -B0
0.047 µF	M	22.5	I	13	10.3 x 18.3 x 26.3	6.6	170	1710 356 M 3 I -B0
0.056 µF	M	22.5	K	13	10.3 x 18.3 x 26.3	6.6	170	1710 368 M 3 K -B0
0.068 µF	M	27.5	K	14	11.0 x 20.3 x 31.3	9.4	125	1710 410 M 3 K -B0

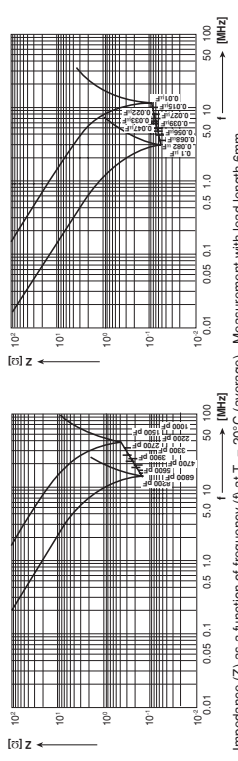
\* Preferred values in bold print.

\*\* Further information about packaging quantities with different lead length and/or taped versions. See page 16 (Document No.27608 Packaging 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 then: F1710...M3...0R0 at H = 16.5mm, F1710...M13...0W0 at H = 18.5mm.

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	APPROVAL REFERENCE	APPROVAL MARK
U.S.A. (for AC 250V)	UL 1283 UL 1414	1000pF - 0.1µFY 1000pFY - 0.1µFY	E 76297 E 100682	
Canada (for AC 250V)	C 222 No. 1-M 1994	1000pFY - 0.1µFY	LR 64546-7	
CB TEST-CERTIFICATE (for AC 305V)		1000pF - 0.1µFY2 (X1)	DE 1-10088	
Germany (for AC 305V)	EN 132 003, 1995-06 IEC 60384-14, 2nd edition, 1995-06	1000pF - 0.1µFY2 (X1)	136954L	



Impedance (Z) as a function of frequency (f) at T<sub>m</sub> = 20°C (average). Measurement with lead length 6mm.