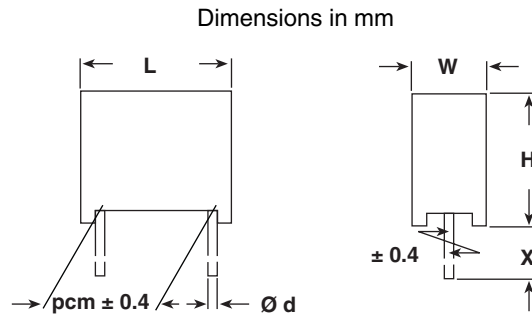


AC-Capacitors, Suppression Capacitors Class Y2 (X1) AC 305 V (MKT)


FEATURES:

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


**RoHS
COMPLIANT**
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: AC 305 V; 50/60 Hz

PERMISSIBLE DC VOLTAGE: DC 1000 V

CAPACITANCE RANGE:

E12 series 1000 pFY2 - 0.1 μ FY2 (X1) preferred values acc. to E6

CAPACITANCE TOLERANCE:

Standard $\pm 20\%$; on request $\pm 10\%$ and $\pm 5\%$

TERMINALS:

Radial tinned copper wire

COATING:

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

CLIMATIC TESTING CLASS ACC. TO EN/IEC 60068-1

40/105/56

TEST VOLTAGE:

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

DISSIPATION FACTOR TAND: $< 1\%$ measured at 1 kHz

INSULATION RESISTANCE:

30 G Ω average value
15 G Ω average value

FURTHER TECHNICAL DATA:

See page 71 (Document Number 26525)

LEAD LENGTH		ORDERING CODE** (see page 49 - Document No. 26511)					
(X) (mm)	Code Pos.11	1-4	5-7	8	9	10	11-13
4 ⁻¹	B	1710	...	.	3	.	B . 0
6 ⁻¹	C	1710	...	.	3	.	C . 0
15 ⁻¹	D	1710	...	.	3	.	D . 0
30 ⁺⁵	L	1710	...	.	3	.	L . 0

pcm (mm)	Pitch Code Pos. 10	Terminal $\varnothing d$ (mm)
10	D	0.6
> 10	F, I or K	0.8

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

RATED VOLTAGE	PITCH (mm)		
	10.0/15.0	22.5	27.5
AC 305 V	200	150	100

CAPACITANCE Code Pos 5-7 (as class Y2 and X1)	TOLERANCE Code Pos 8 J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	PITCH		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**						
		(mm)	Code Pos. 10					TYPE	C-Value	Tolerance	Voltage	Pitch	Lead Length Design	
														1-4	5-7	8	9	10	11-13
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 μ F	M	10.0	D	91	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 delivered on continuous tape and reel see page 14/15 (Document Number 27622)

Ordering example: 1710-210 M 2 D CB0

B0 = Bulk Pack T0 = Tray/Pallet



CAPACITANCE Code Pos 5-7 (as class Y2 and X1)	TOLERANCE Code Pos 8 J = ± 5 % K = ± 10 % M = ± 20 %	PITCH		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**					
		(mm)	Code Pos. 10					TYPE	C-Value	Tolerance	Voltage	Pitch	Lead Length Design
1000 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	210	M	3	F	.BO
1200 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	212	M	3	F	.BO
1500 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	215	M	3	F	.BO
1800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	218	M	3	F	.BO
2200 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	222	M	3	F	.BO
2700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	227	M	3	F	.BO
3300 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	233	M	3	F	.BO
3900 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	239	M	3	F	.BO
4700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	247	M	3	F	.BO
5600 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	256	M	3	F	.BO
6800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	268	M	3	F	.BO
8200 pF	M	15	F	06	6.3 x 12.3 x 17.8	2.0	500	1710	282	M	3	F	.BO
0.01 µF	M	15	F	06	6.3 x 12.3 x 17.8	2.0	500	1710	310	M	3	F	.BO
0.012 µF	M	15	F	07	7.3 x 13.3 x 17.8	2.4	450	1710	312	M	3	F	.BO
0.015 µF	M	15	F	07	7.3 x 13.3 x 17.8	2.4	450	1710	315	M	3	F	.BO
0.018 µF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710	318	M	3	F	.BO
0.022 µF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710	322	M	3	F	.BO
0.027 µF	M	22.5	I	09	6.3 x 14.3 x 26.3	3.5	260	1710	327	M	3	I	.0
0.033 µF	M	22.5	I	09	6.3 x 14.3 x 26.3	3.5	260	1710	333	M	3	I	.0
0.039 µF	M	22.5	I	11	7.3 x 15.3 x 26.3	3.9	235	1710	339	M	3	I	.0
0.047 µF	M	22.5	I	12	8.3 x 16.3 x 26.3	4.8	200	1710	347	M	3	I	.0
0.056 µF	M	22.5	I	13	10.3 x 18.3 x 26.3	6.6	170	1710	356	M	3	I	.0
0.068 µF	M	22.5	I	13	10.3 x 18.3 x 26.3	6.6	170	1710	368	M	3	I	.0
0.082 µF	M	27.5	K	14	11.0 x 20.3 x 31.3	9.4	125	1710	382	M	3	K	.0
0.1 µF	M	27.5	K	14	11.0 x 20.3 x 31.3	9.4	125	1710	410	M	3	K	.0

Preferred values in bold print.

* Further information about packaging quantities with different leadlength and/or taped versions.

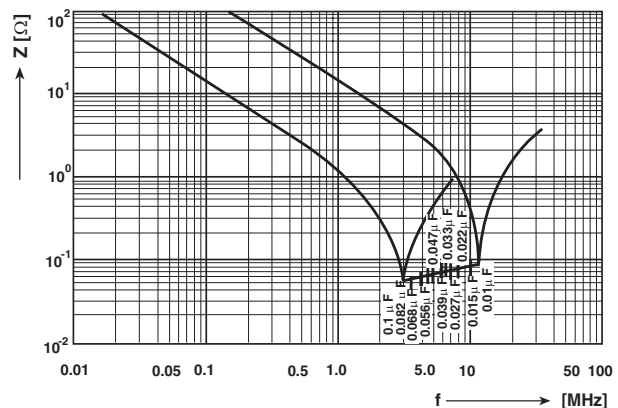
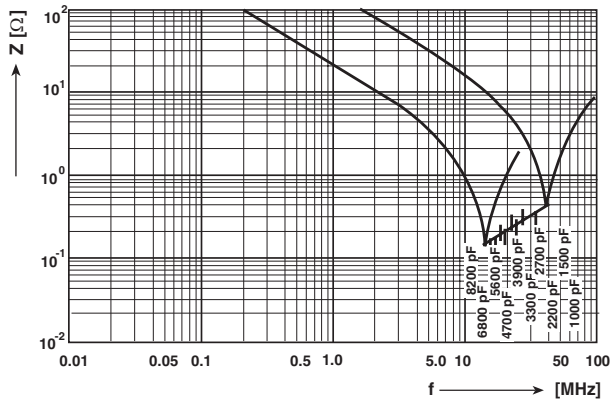
See page 16 (Document No 27608 Packing Quantities). Use Box No as reference

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

The ordering code is then: F1710-... M 3. 0R0 at H = 16.5 mm, F1710-... M 3. 0W0 at H = 18.5 mm.

APPROVALS

COUNTRY	SPECIFICATION	ELECTRICAL VALUES	APPROVAL REFERENCE	APPROVAL MARK
U.S.A. (for AC 250 V)	UL 1283 UL 1414	1000 pF Y - 0.1 µF Y 1000 pF Y - 0.1 µF Y	E 76297 E 100682	
Canada (for AC 250 V)	C 22.2 No. 1-M 1994	1000 pF Y 0.1 µF Y	LR 64546-7	
CB TEST-CERTIFICATE (for AC 305 V)		1000 pF - 0.1 µF Y2 (X1)	DE 1-10088	
Germany (for AC 305 V)	EN 132 400; 1999-06 IEC 60384-14, 2nd edition, 1995-06	1000 pF - 0.1 µF Y2 (X1)	136954L	



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



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