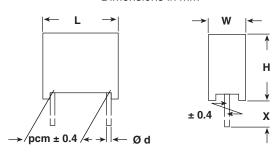


Vishay Roederstein

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

Dimensions in mm



LEAD L	ENGTH	ORDERING CODE** (see page 49 - Document No. 26511)							
(X) (mm)	Code Pos.11	1-4	5-7	8	9	10	11-13		
4-1	В	1710			3		B.0		
6 ⁻¹	С	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 Ø d (mm)
ŀ	10	D	0.6
ĺ	> 10	F, I or K	0.8

MAXIMUM PULSE RISE TIME: (d_u/d_t) in $V/\mu s$

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

FEATURES:

Product is completely lead (Pb)-free Product is 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 PERMISSABLE 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)

CAPACITANCE	TOLERANCE	PI	ITCH	вох	DIMENSIONS	WEIGHT	QUANTITY	ORDERING CODE**		E**			
Code Pos 5-7 (as class Y2 and X1)	Code Pos 8 J = ± 5 % K = ± 10 % M = ± 20%		Code Pos. 10	NO	W x H x L	(Lead Length 6 ⁻¹ mm)	PACKAGE (Lead Length) ≤ 6-1 mm)	TYPE	C-Value	Tolerance	Voltage	Pitch	Lead Length Design
	IVI = ± 20 /6	(mm)			(11111): 427 4	(g)	(pcs)*	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	М	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	М	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	М	3	D	. B0
3300 pF	M	10.0	D	03	5.3 x 10.3 x 12.8	1.0	1000	1710	233	М	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	М	3	D	. B0
5600 pF	M	10.0	D	04	6.3 x 11.3 x 12.8	1.3	750	1710	256	М	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	М	10.0	D	04	6.3 x 11.3 x 12.8	1.3	750	1710	282	М	3	D	. B0
0.010 μF	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

Vishay Roederstein

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



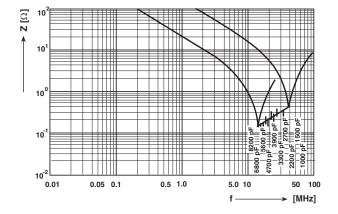
CAPACITANCE	TOLERANCE	PI	тсн	вох	DIMENSIONS	WEIGHT	QUANTITY	ORDERING CODE			**		
Code Pos 5-7	Code Pos 8	(mm)	Code	NO	WxHxL	(Lead Length	PACKAGE			9			
(as class Y2	J = ± 5 %	` ′	Pos. 10			6 ⁻¹ mm)	(Lead Length)		C-Value	Tolerance	Voltage		# K
and X1)	K = ± 10 %					,	` ≤ 6 ⁻¹ mm)	TYPE	-Va	l e	g	Pitch	Lead Length Design
,	$M = \pm 20\%$				(mm) + 0.2 /- 0.4 mm	(g)	(pcs)*	F	Ó	ĭ	Š	ī	٥٢٢
	IVI — ± 20 /6				()	(9)	(600)	1-4	5-7	8	9 1	10	11-13
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		F	. B0
1500 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750		215	M		F	. B0
1800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750		218	M		F	. B0
2200 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	222	M		F	. B0
2700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	227	М		F	. B0
3300 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750		233	М		F	. B0
3900 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750		239	М		F	. B0
4700 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	247	М		F	. B0
5600 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	256	М		F	. B0
6800 pF	M	15	F	05	5.3 x 10.3 x 17.8	1.4	750	1710	268	M		F	. B0
8200 pF	M	15	F	06	6.3 x 12.3 x 17.8	2.0	500	1710	282	М	3	F	. B0
0.01 μF	M	15	F	06	6.3 x 12.3 x 17.8	2.0	500		310	M	3	F	. B0
0.012 μF	M	15	F	07	7.3 x 13.3 x 17.8	2.4	450		312		3		. B0
0.015 μF	M	15	F	07	7.3 x 13.3 x 17.8	2.4	450		315	M		F	. B0
0.018 μF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710	318	Μ		F	. B0
0.022 μF	M	15	F	28	8.3 x 17.3 x 17.8	3.4	300	1710	322	М		F	. B0
0.027 μF	M	22.5	I	09	6.3 x 14.3 x 26.3	3.5	260	1710	327	M		1	0
0.033 μF	M	22.5		09	6.3 x 14.3 x 26.3	3.5	260	1710	333	М			0
0.039 μF	M	22.5		11	7.3 x 15.3 x 26.3	3.9	235	1710	339	М			0
0.047 μF	M	22.5		12	8.3 x 16.3 x 26.3	4.8	200	1710	347	М		I	0
0.056 μF	M	22.5		13	10.3 x 18.3 x 26.3	6.6	170	1710	356	М			0
0.068 µF	M	22.5		13	10.3 x 18.3 x 26.3	6.6	170	1710	368	М	3	I	0
0.082 μF	M	27.5	K	14	11.0 x 20.3 x 31.3	9.4	125	1710	382	М		K	0
0.1 μF	M	27.5	K	14	11.0 x 20.3 x 31.3	9.4	125	1710	410	М	3	K	0

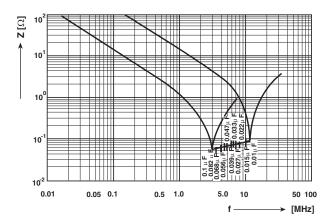
Preferred values in bold print.

- 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.	UL 1283	1000 pF Y - 0.1 μF Y	E 76297	75
(for AC 250 V)	UL 1414	1000 pF Y - 0.1 μF Y	E 100682	74
Canada (for AC 250 V)	C 22.2 No. 1-M 1994	1000 pF Y 0.1 μF Y	LR 64546-7	
CB TEST-CERTIFICAT	E (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	10 DYE





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

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