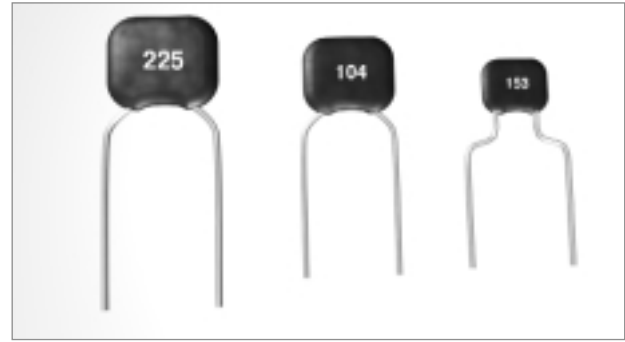
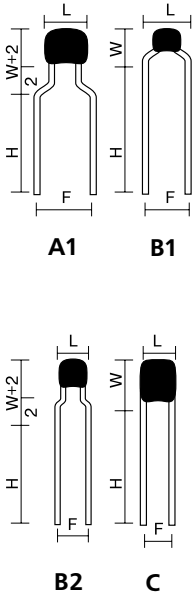


Radial Multilayer Ceramic Capacitors



Standard value and case size

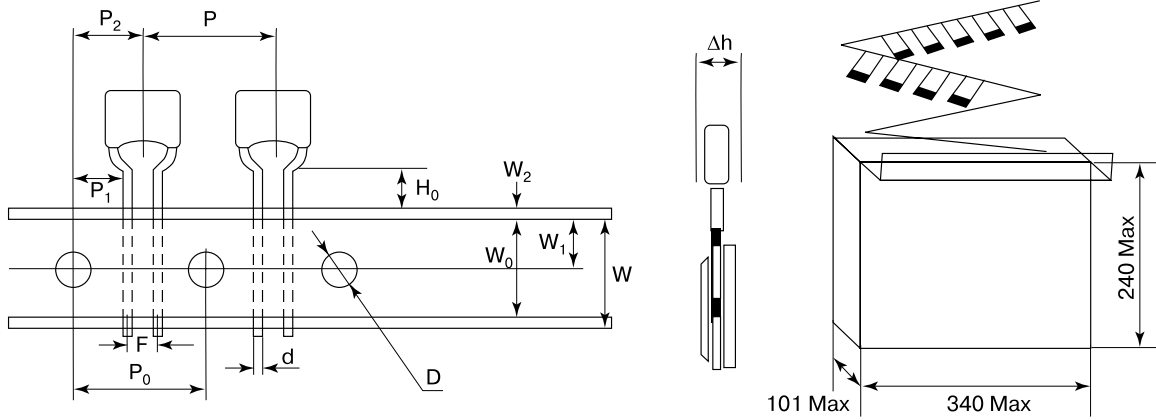
	Size	Type	Dimensions (mm)						Voltage	Capacitance (pf)		
			F	Hmin	Lmax	Wmax	Tmax	D		COG (NPO)	X7R	Y5V (Z5U)
	0805	A1	5.0						25V	OR5-332	221-105	103-105
		B1	5.0	5.0	4.2	3.8	3.8	0.5	50V	OR5-222	221-105	103-684
		C1	2.5						100V	OR5-102	221-683	
	1206	B2	5.0	5.0	5.0	4.5	3.8	0.5	25V	OR5-682	102-105	103-105
		C2	4.0						50V	OR5-472	102-105	103-105
									100V	OR5-392	102-683	
1210	C3	5.0	5.0	7.6	5.5	3.8	0.5	25V	561-103	102-334	104-105	
	C2	4.0						50V	561-682	102-205	104-105	
								100V	561-472	102-104		
1812	C3		5.0	5.0	8.5	8.5	3.8	0.5	25V	102-153	103-474	154-335
									50V	102-103	103-334	154-225
									100V	102-682	103-224	
2225	C4		7.5	5.0	10.5	9.5	4.2	0.5	25V	102-223	103-105	684-475
									50V	102-223	103-105	684-335
									100V	102-103	103-474	
3035	C4		7.5	5.0	12.5	10.5	4.2	0.5	25V	102-104	103-225	105-106
									50V	102-473	103-225	105-685
									100V	102-333	103-105	

0805	Y	103	Z	500	A1	T
Size code	Dielectric	Cap. (pF)	Cap. Tolerance	Voltage	Leads Type	Packaging
(mm) LxW 0805=2.0x1.25 1206=3.2x1.6 1210=3.2x2.5 1812=4.5-3.2 2225=5.7-6.4 3035=7.6-9.0	N=NPO B=X7R Y=Y5V (Z5U)	103=10000(pF) Two significant Digits followed by No. Of zeros	B=±0.1pF C=±0.25pF D=±0.50pF F=±1.0% G=±2.0% J=±5.0% K=±10% M=±20% S=+50%/-20% Z=+80%/-20%	500=50V 101=100V	A1 B1, B2 C1, C2, C3, C4	T=Reeled No code Is bulk Package

Specifications

	NPO (COG)	X7R	Y5V (Z5U)	
Capacitance Range	0.5pF~104	221~225	103~106	
Capacitance Tolerance	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% K=±10% M=±20% B,C,D for C<10pF	K=±10% M=±20% S=+50%-- 20%	M=±20% S=±50%-- 20% Z=+80%-- 20% P=+100%~0	
Rated Voltage	16, 25 50, 63, 100, 200, 500, 1000, 2000 VDC		16, 25, 50, 100 VDC	
Dissipation Factor (DF)	0.15%Max (20, 1MHZ, 1VDC)	2.5%Max (20, 1KHZ, 1VDC)	5.0%Max (20, 1 KHZ, 0.3VDC)	
Insulation Resistance	C 10nF _{I_R} 10000M C 10nF _{I_R} >500 .F	C 25nF _{I_R} 4000M C 25nF C _{xR} >100 F		
Dielectric With Standing Voltage	There shall be no evidence of damage or flash over during the test.			
Termination adhesion strength	There shall be no evidence of damage a flash over during the test.			
Bending Strength	There shall be no evidence of damage or flash over during the test; capacitance tolerance shall be not more than 10%.			
Solderability	Time:	2±1s		
	Temp:	235±5		
	Cover:	95%		
Resistance to Soldering Heat	Time:	5±1s		
	Temp:	265±5		
	Cover:	95%		
	C/C	0.5% or 0.5pF	-5%~+10%	-10%~+20%
Temperature cycling	C/C	1%	±10%	±30%
	Outlook:	There shall be no evidence of damage or flash over during the test.		
Humidity Moisture Resistance	C/C	2%	10%	20%
	DF	0.003	0.05	0.07
	IR	RxC>25s		
	Outlook:	There shall be no evidence of damage or flash over during the test.		
T. C. Characteristics (C/C)		±30ppm	±15%	Z5U (E) +22~-56%
				Y5V (F) +22~-82%
Vibration	Outlook:	There shall be no evidence of damage or flash over during the test.		
Bump	C/C	2%		
	Outlook:	There shall be no evidence of damage or flash over during the test.		
Life test (1000 hours)	C/C	2%	±12.5%	±30.0%
	DF	0.003		0.05
	IR	RxC>25s		RxC 25s
	Outlook:	There shall be no evidence of damage or flash over during the test.		

Packing Ammo Package



Code	P	P ₀	W	W ₀	H ₂	W ₂	H ₁	D	T	h	H	S	P ₁	P ₂	P
Dimension	12.7	12.7	18	5	9	0	32.5	4	0.5	0	16-18	5	3.85	6.35	1.3
Tolerance	±1	±0.3	+1 -0.5	min	±0.5	1	Max	±0.2	±0.2	±0.2	±0.5	±0.5	±0.7	±0.4	Max

Reel Package

(mm)

A	B (Max)	C	D (Max)	E(Max)	F
355-365	50.8	38.01-46.02	102.01	86.36	25.40-30.48

Packaging Q'ty (pcs)

Reel Package	Ammo Package	Bulk Package
2500	4000	1000

Dimension of box (mm)

