

Ceramic Capacitors

EC4 - Radial Leads Multilayer Ceramic Capacitors

ELECSOUND®

Features:

Wide capacitance, temperature, voltage and tolerance range

A lot of leads type available

Tape and Reel available for auto placement

Excellent humidity resistance and prevents body from damaging during soldering and washing

Coating by epoxy resin

Rohs Compliant

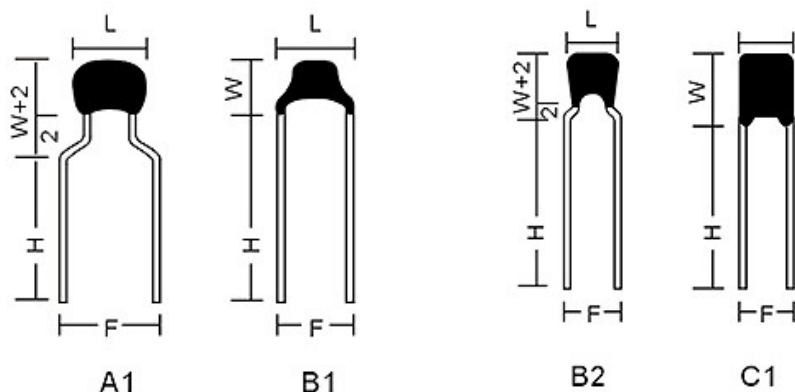
General Specifications

Material	CC4 (NPO)	CC4 (COG)	CT4 (X7R)	CT4 (Y5V)	CT4 (Z5U)
Capacitance Range	0.5pF~104		221~225	103~106	
Capacitance Tolerance	B=±0.1pF	C=±0.25pF	K=±10%	M=±20%	
	D=±0.5pF	F=±1%	M=±20%	S=+50%~-20%	
	G=±2%	J=±5%	S=+50%~-20%	Z=+80%~-20%	
	K=±10%	M=±20%		P=+100%~0	
Rated Voltage	25V, 50V, 100V, 200V, 500V, 1000V			25V, 50V, 100V	
	2000V, 3000V, 4000V			200V, 250V	
Dissipation Factor(DF)	0.15%Max		2.5%Max	5.0%Max	
	(20°C, 1MHZ, 1VDC)		(20°C, 1KHZ, 1VDC)	(20°C, 1KHZ, 0.3VDC)	
Insulation Resistance	C≤10nF	IR≥10000MΩ	C≤25nF	IR≥4000MΩ	
	C > 10nF	IR>500Ω.F	C > 25nF	C×R>100ΩF	
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 or 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°C			
	Cover:	≥ 95%			
Resistance to Soldering Heat	Time:	5±1s			
	Temp.:	265±5°C			
	Cover:	≥ 95%			
Temperature cycling	ΔC/C:	≤0.5% or 0.5pF	≤-5% ~ +10%	≤-10% ~ +20%	
	Outlook:	≤1%	≤± 10%	≤±30%	
Humidity Moisture Resistance	ΔC/C:	≤2%	≤10%	≤20%	
	DF	0.003	0.05	0.07	
	IR	R×C>25s			
	Outlook:	There shall be no evidence of damage or flash over during the test.			
T.C. Characteristics (ΔC/C)	±30ppm/°C		±15%	Y5V(F) +22~-82%	Z5U(E) +22~-56%
Vibration	Outlook:	There shall be no evidence of damage or flash over during the test.			
Bump	ΔC/C:	≤2%			
	Outlook:	There shall be no evidence of damage or flash over during the test.			
Life test (1000hours)	ΔC/C:	≤2%	≤±12.5%	≤±30.0%	
	DF	0.003		0.05	
	IR	R×C>25s		R×C≥25s	
	Outlook:	There shall be no evidence of damage or flash over during the test.			

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Radial Type Size, Capacitance and Voltage

Size	Type	Dimensions (mm)						Voltage	Capacitance (pF)		
		F	Hmin	Lmax	Wmax	Tmax	D		COG(NPO)	X7R	Y5V(Z5U)
805	A1	5	5	4.2	3.8	3.8	0.5	25V	0R5~332	221~105	103~105
	B1	5						50V	0R5~222	221~105	103~684
	C1	2.5						100V	0R5~102	221~683	
1206	B2	5	5	5	4.5	3.8	0.5	25V	0R5~682	102~105	103~105
	C2	4						50V	0R5~472	102~105	103~105
								100V	0R5~392	102~683	
1210	C3	5	5	7.6	5.5	3.8	0.5	25V	561~103	102~334	104~155
	C2	4						50V	561~682	102~205	104~155
								100V	561~472	102~104	
1812	C3	5	5	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	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	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	

How To Order

EC4	0805	Y	104	Z	500	F1	C1	B
Type	Size	Dielectric	Capacitance	Tolerance	Voltage	Pitch	Lead	Package
EC4	(mm) L×W	N=NPO	104=100000(pF)	D=±0.50pF	250=25V			
EC4 Class II	0805=2.0×1.25	B=X7R		J=±5.0%	500=50V	F1=2.54mm	A1	A=Ammo
	1206=3.2×1.6	Y=Y5V		K=±10%	101=100V	F3=5.08mm	B1	B=Bulk
	1210=3.2×2.5	(Z5U)		M=±20%			B2	
	1812=4.5×3.2			Z=+80%/-20%			C1	
	2225=5.7×6.4							