

# Ceramic Capacitors

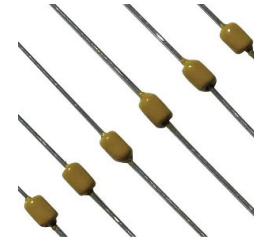
## EC7 - Axial Leads Multilayer Ceramic Capacitors

**ELECSOUND®**

Elecsound is a leading manufacturer of ceramic capacitors, including: disc ceramic capacitors, multilayer ceramic capacitors, Safty cearmic capacitors and ceramic trimmer capacitors.

### Features:

- Wide capacitance, temperature , voltage and tolerance range
- Tape and Reel available for auto placement
- Excellent humidity resistance and preventsbody 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	B,C,D for C <10pF				
	25V, 50V, 100V, 200V, 500V, 1000V			25V, 50V, 100V	
Dissipation Factor(DF)	2000V,3000V, 4000V			200V, 250V	
	0.15%Max		2.5%Max	5.0%Max	
Insulation Resistance	(20°C,1MHZ,1VDC)		(20°C,1KHZ,1VDC)	(20°C,1KHZ,0.3VDC)	
	C≤10nF	IR≥10000MΩ	C≤25nF	IR≥4000MΩ	
Dielectric With Standing Voltage	C > 10nF	IR>500Ω.F	C > 25nF	C×R>100ΩF	
	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:	There shall be no evidence of damage or flash over during the test.			
Humidity Moisture Resistance	ΔC/C:	≤1%	≤± 10%	≤±30%	
	DF	0.003	0.05	0.07	
	IR	R×C>25s			
T.C. Characteristics (ΔC/C)	Outlook:	There shall be no evidence of damage or flash over during the test.			
	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.			
	ΔC/C:	≤2%			
Bump	Outlook:	There shall be no evidence of damage or flash over during the test.			
	ΔC/C:	≤2%	≤±12.5%	≤±30.0%	
Life test (1000hours)	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.			

**Elecsound Technology Company Limited**

TEL: 0086-755-82908842

FAX: 0086-755-83045964

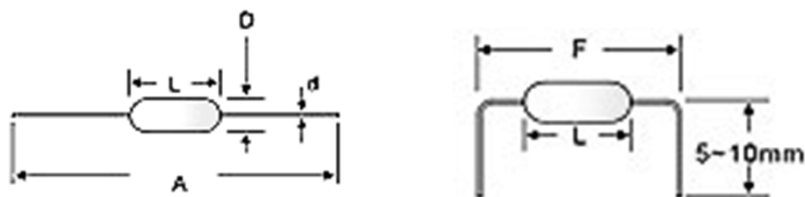
Website: [www.elecsound.com](http://www.elecsound.com)

Email: [sales@elecsound.com](mailto:sales@elecsound.com)

# Ceramic Capacitors

## EC7 - Axial Leads Multilayer Ceramic Capacitors

**ELECSOUND**®



### Axial Type Size, Capacitance and Voltage

Size	Dimensions (mm)				Voltage	Capacitance (pF)			
	L max	D max	F (+/-0.6)			D	COG(NPO)	X7R	Y5V(Z5U)
17	4.3	2.5	5	10	0.45	25V	0R5~332	331~104	103~105
						50V	0R5~222	331~374	103~684
						100V	0R5~102	331~223	
19	5.1	3	7.5	10	0.45	25V	0R5~472	102~224	103~125
						50V	0R5~392	102~104	103~105
						100V	0R5~152	102~683	

### How To Order

EC7	17	Y	104	Z	500	P
Type	Size	Dielectric	Capacitance	Tolerance	Voltage	Package
EC7	(mm) L×W	N=NPO	104=100000(pF)	D=±0.50pF	250=25V	B=Bulk
EC7 Class II	17	B=X7R		J=±5.0%	500=50V	P=Ammo
	19	Y=Y5V		K=±10%	101=100V	
		(Z5U)		M=±20%		
				Z=+80%/-20%		

## Elecsound Technology Company Limited

TEL: 0086-755-82908842

FAX: 0086-755-83045964

Website: [www.elecsound.com](http://www.elecsound.com)

Email: [sales@elecsound.com](mailto:sales@elecsound.com)