



CC42 CT42 Axial Leads Multilayer Ceramic Capacitors

Features

Wide capacitance, temperature, voltage and tolerance range;
Industry sizes; Tape and Reel available for autoplacement.

Size Code Capacitance and Voltage

	Size	Dimensions (mm)				Voltage	Capacitance (PF)			
		Lmax	Dmax	F	D		COG(NPO)	X7R	Y5V(Z5U)	
	17	4.3	2.5	5.0	10	0.45	25V	0R5~332	331~104	103~105
							50V	0R5~222	331~473	103~684
							100V	0R5~102	331~223	
	20	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

CT42 104 Z 17 Y 500 T

CT42	104	Z	17	Y	500	T
Type	Cap.(pF)	Cap. Tolerance	Companet Length	Dielectric	Voltage	Package
CC42 classú axial leads MLCE	104=100000(pF) Two significant digits followed by no. of zeros	C=±0.25pF D=±0.50pF	(inch)	N=NPO	500=50V	T=Tape & Reel
CT42 classú axial leads MLCE		J=±5.0% K=±10% M=±20% Z=+80%/-20%	17	Y=Y5V (Z5U)		A=Ammo



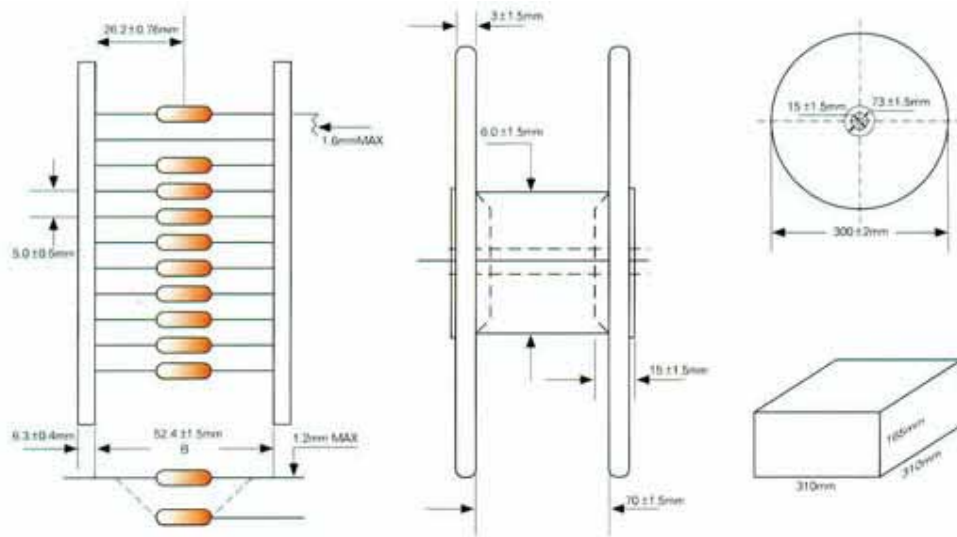
General specifications

	CC42 (NPO)		CT42 (X7R)		CT42 (Y5V, Z5U)	
Capacitance Range	OR5 to 472		331 to 224		103 to 125	
Temperature Coefficient	0±30PPm/°C 0±60PPm/°C	(-55 to +125)	±15% (-55 to +125)		+30%~80% (-25 to +85) °C +22%~56% (+10 to +85) °C	°C
Insulation Resistance	C ≤10nF R ≥ 10000MΩ		C ≤25nF R ≥ 4000MΩ			
	C ≥10nF C.R. ≥ 100S		C ≥5nF C.R. ≥ 100S			
With Standing Voltage	2.5 × W V D C					
Dissipation factor	0.15% max (20°C, 1MHZ, 1VDC)		2.5% max (20°C, 1kHz, 1VDC)		5.0% max (20°C, 1kHz, 0.3VDC)	
Rated Voltage	25, 50, 63, 100VDC				25, 50, 63VDC	
Capacitance Tolerance	B=±0.1PF	C=±0.25PF			Top	
	D=±0.5PF	F=±1%	K=±10%	M=±20%	M=±20%	S= +50 -20 %
	G=±2%	J=±5%	S= +50 -20 %		Z= +80 -20 %	
	K=±10%	M=±20%				
Life Test (1000hours)	200% Rated Voltage at +125°C 1000h				150% Rated Voltage at +85°C 1000h	
Solderability	SJ/T10211-91 4.11		SJ/T10211-91 4.11			
Resistance to Soldering Heat	SJ/T10211-91 4.10		SJ/T10211-91 4.10			
Mechanical Test	SJ/T10211-91 4.9		SJ/T10211-91 4.9			
Temperature Cycling	SJ/T10211-91 4.12		SJ/T10211-91 4.12			
Moisture Resistance	SJ/T10211-91 4.14		SJ/T10211-91 4.14			
Termination adhesion strength	SJ/T10211-91 4.9		SJ/T10211-91 4.9			
Environment Testing	SJ/T10211-91 4.13		SJ/T10211-91 4.13			



Packaging Style

> Reel Package >>>



> Package Q'ty >>>

Size	Reel Package	Ammo Package	Bulk
9	5000	5000	1000,5000
20	2500	2500	500

Diagram of a bulk package showing dimensions and quantity:

- Quantity: 50PCS/層
- Dimensions: 258mm, 81mm, 72mm.