

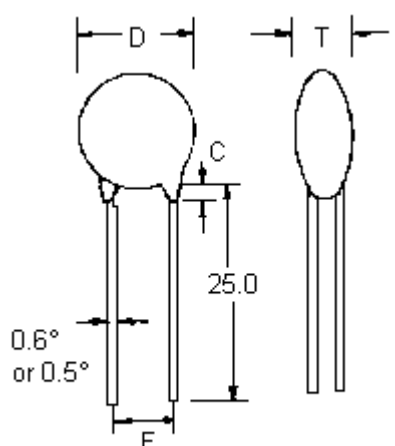
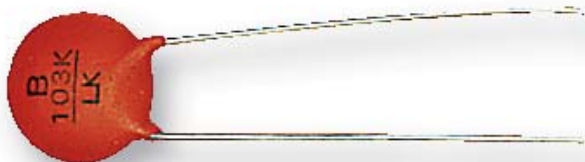
MCBU, MCFU Series

Ceramic Disc Capacitors



Features:

- Capacitance has non linear temperature coefficient.
- Large capacitance in small size.
- Wide range of general purpose applications.



C:50V = 1.5

Dimensions : Millimetres

Specifications:

Capacitance Range	100pF to 47000pF.
Capacitance Tolerance	±10%, +80% to -20%.
Operating Temperature Range	-25°C to 85°C (Y5P), 10°C to 85°C (Z5V).
Rated Working Voltage	50V.
Dissipation Factor (tan θ): Y5P Z5V	$\tan \theta \leq 2.5\%$. $\tan \theta \leq 5\%$.
Insulation Resistance (IR) at 25°C	10,000 M Ω Minimum or 200 M Ω /μF, whichever is smaller.
Dielectric Strength	2.5 times the rated WVDC.
Testing Parameters	1KHz±20%, 1.0±0.2 V _{rms} .

Capacitance Chart:

Temperature Characteristics	Part Diameter	Rated Voltage (V)	Capacitance		Maximum Dimension		
			Range (pF)	Tolerance	D	T	F
MCB (Y5P) +10%	5	U (50)	1200 ~ 2200	K	5.5	3.5	5.00
	6		2700 ~ 3300		6.5		
	7		3900 ~ 4700		7.5		
	8		5600 ~ 6800		8.5		

Dimensions : Millimetres



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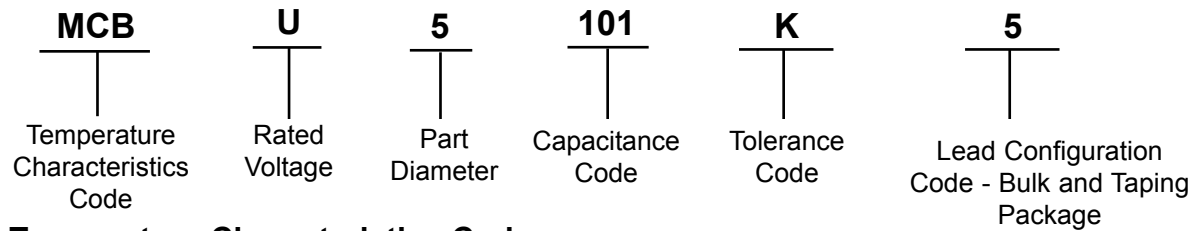
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Temperature Characteristics	Part Diameter	Rated Voltage (V)	Capacitance		Maximum Dimension		
			Range (pF)	Tolerance	D	T	F
MCF (Z5V) +22% to -82%	5	U (50)	1000 ~ 5600	Z	5.5	3.5	5.00

Dimensions : Millimetres

Part Number Explanation:



Temperature Characteristics Code:

	MCB (Y5P)	MCF(Z5V)
T.C.(PPM/°C) or Capacitance Change (%)	+10%	+22% to -82%

Rated Voltage:

	U
Voltage	50V

Part Diameter:

Code	Diameter (mm)
5	5
6	6
7	7
8	8

Capacitance Code:

Code	Capacitance (pF)
101	100
221	220
331	330
471	470
102	1000
222	2200
332	3300
472	4700



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Tolerance Code:

Code	Tolerance
K	±10%
Z	+80 to -20%

Lead Configuration Code - Bulk and Taping Package:

Bulk Lead Code	Taping Lead Code	Configuration and Dimension			
		Kinked/Straight	Lead Space (F)	Minimum Lead Length (L)	Remarks
5	-	Straight	2.5	25	-
6	G or L	Straight	5.0	25	G = Ammo, L = Reel

Dimensions : Millimetres

Part Number Table:

Description	Part Number
Capacitor, 100PF 50V	MCBU5101K5
Capacitor, 220PF 50V	MCBU5221K5
Capacitor, 330PF 50V	MCBU5331K5
Capacitor, 470PF 50V	MCBU5471K5
Capacitor, 1.0NF 50V	MCBU5102K5
Capacitor, 2.2NF 50V	MCBU6222K6
Capacitor, 3.3NF 50V	MCBU7332K6
Capacitor, 4.7NF 50V	MCBU8472K6
Capacitor, 1NF 50V	MCFU5102Z5
Capacitor, 2.2NF 50V	MCFU5222Z5
Capacitor, 4.7NF 50V	MCFU5472Z5