

Ceramic Disc Capacitor



RoHS
Compliant

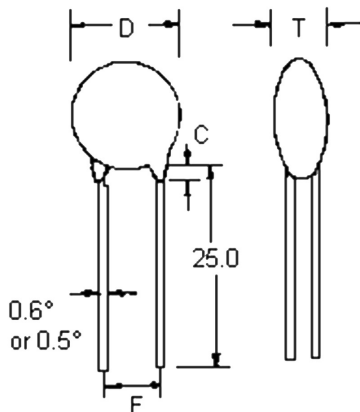


Features:

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

Specifications:

Capacitance Range	: 100pF to 47000pF
Capacitance Tolerance	: $\pm 10\%$, +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	: $\tan \theta \leq 2.5\%$
Z5V	: $\tan \theta \leq 5\%$
Insulation Resistance (IR) at 25°C	: 10,000M Ω Min. or 200M Ω / μ F, whichever is smaller
Dielectric Strength	: 2.5 times the rated WVDC
Testing Parameters	: 1kHz $\pm 20\%$, 1.0 $\pm 0.2V_{RMS}$.



C:50V = 1.5

Dimensions : Millimetres

Capacitance Chart:

Temperature Characteristics	Part Diameter	Rated Voltage (V)	Capacitance		Maximum Dimension		
			Range (pF)	Tolerance	D	T	F
MCB (Y5P) +10%	5	U (50)	1,200 to 2,200	K	5.5	3.5	5
	6		2,700 to 3,300		6.5		
	7		3,900 to 4,700		7.5		
	8		5,600 to 6,800		8.5		
MCF (Z5V) +22% to -82%	5		1,000 to 5,600	Z	5.5		

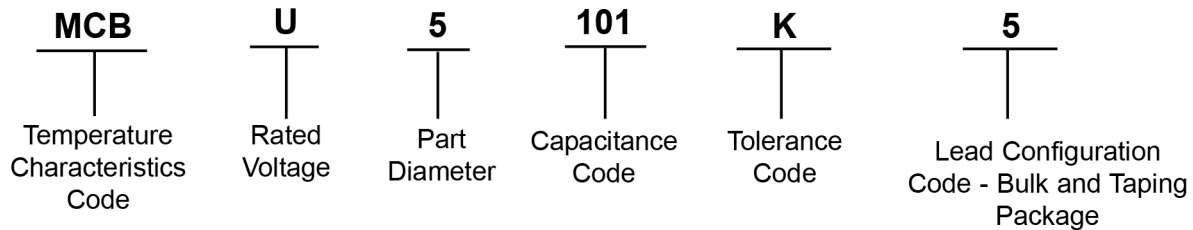
Dimensions : Millimetres



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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	1,000
222	2,200
332	3,300
472	4,700

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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)	Min. 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, Y5P, Disc	MCBU5101K5
Capacitor, 1nF, 50V	MCBU5102K5
Capacitor, 100pF 50V	MCBU5101K5.
Capacitor, 270pF 50V	MCBU5271K5
Capacitor, 390pF 50V	MCBU5391K5
Capacitor, 1.0nF 50V	MCBU5102K5.
Capacitor, 4.7nF 50V	MCBU8472K6.
Capacitor, 220pF, 50V	MCBU5221K5
Capacitor, 330pF, 50V	MCBU5331K5
Capacitor, 470pF, 50V	MCBU5471K5
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.
Capacitor, 1nF, 50V	MCFU5102Z5
Capacitor, 2.2nF, 50V	MCFU5222Z5
Capacitor, 4.7nF, 50V	MCFU5472Z5

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