

# MCBU, MCFU Series Ceramic Disc Capacitors

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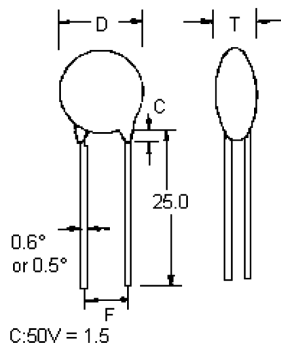


## Features:

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

## Specifications:

Capacitance Range	: 100pF to 47,000pF
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	: tan θ ≤ 2.5%
Z5V	: tan θ ≤ 5%
Insulation Resistance (IR) at 25°C	: 10,000MΩ Min. or 200MΩ/μF, whichever is smaller
Dielectric Strength	: 2.5 times the rated WV DC
Testing Parameters	: 1kHz ±20%, 1 ±0.2 Vrms



## Capacitance Chart:

Temperature Characteristics	Part Diameter	Rated Voltage (V)	Capacitance		Max. 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

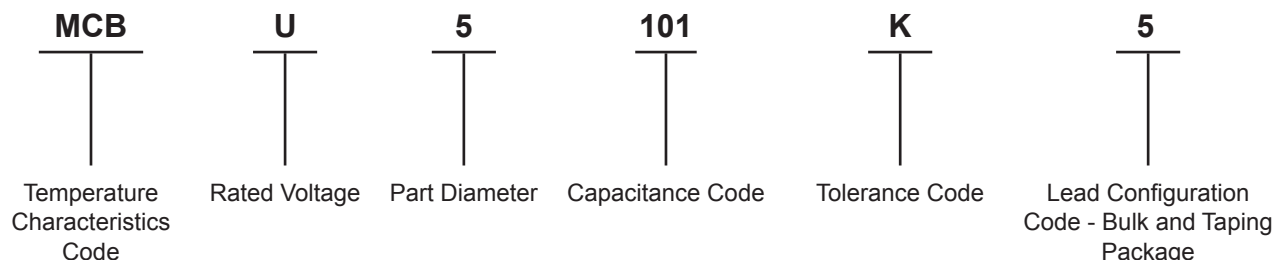
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## Part Number Explanation:



## Temperature Characteristics Code:

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

## Rated Voltage:

	<b>U</b>
Voltage	50V

## Part Diameter:

Code	Diameter
5	5mm
6	6mm
7	7mm
8	8mm

## 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

## Tolerance Code:

Code	Tolerance
K	±10%
Z	+80 to -20%

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### 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		5	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, 1nF 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

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