

MCFY Series

Ceramic Disc Capacitors

multicomp^{PRO}

RoHS
Compliant



Features

- Large capacitance in small size.
- Low loss at wide range of frequency.
- Cost saving by placing film capacitors.
- Capacitance has linear temperature coefficient.
- Stable capacitance change over specified temperature range.

Specifications

Capacitance Range	: 6800pF to 220000pF
Capacitance Tolerance	: +80% to -20%
Operating Temperature Range	: -25°C to 85°C
Rated Working Voltage	: 50V
Dissipation Factor (tan θ): Y5V (50V)	: tan $\theta \leq 5\%$.
Insulation Resistance (IR) at 25°C	: 1000M Ω Min. or 20 M Ω / μ F
Dielectric Strength	: 2 times the rated WVDC
Testing Parameters	: 1kHz \pm 20%, 0.1 Vrms Max.

Capacitance Chart

Temperature Characteristics	Part Diameter	Rated Voltage (V)	Capacitance		Maximum Dimension		
			Range (pF)	Tolerance	D	T	F
MCFY (Y5V)+22% to -82%	5	U (50)	22,000 ~ 39,000	Z	5.2	2	5
	6		47,000 ~ 1,00,000		6.2		

Temperature Characteristics Code

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

Rated Voltage

	U
Voltage	50V

Part Diameter

Code	Diameter (mm)
5	5
6	6

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Element14.com/multicomp-pro

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Capacitance Code

Code	Capacitance (nF)
103	10
223	22
473	47
104	100

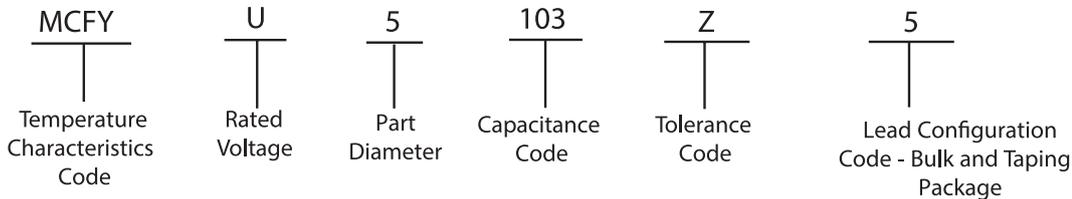
Tolerance Code

Code	Tolerance
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		5		G = Ammo, L = Reel

Part Number Explanation



Part Number Table

Description	Part Number
Capacitor, 10nF 50V	MCFYU5103Z5
Capacitor, 22nF 50V	MCFYU5223Z6
Capacitor, 47nF 50V	MCFYU6473Z6
Capacitor, 100nF 50V	MCFYU6104Z6

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