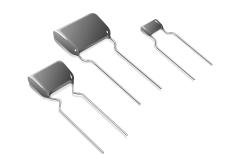
# Ceramic Multilayer Radial Leaded Capacitor

Series: **ECU-S** Type: **COG** 

# Features

- Good thermal stability
- High insulation resistance
- Low dissipation factor
- Low inductance



# Applications

- Resonant circuits
- Filter circuits
- Timing elements
- Coupling and filtering, particularly in RF circuits

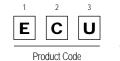
# Major Specifications

Operating temperature range	–55°C to 125°C	Q factor/dissipation factor	≤ 15%	
Rated voltage	50 VDC, 100 VDC	Insulation resistance	100,000 M $m \Omega$ or (1,000 M $m \Omega$ x µF0,	
Capacitance range	50 VDC: 100-47,000 pF		whichever is less	
	100 VDC: 4.7-220 pF	Endurance test (1,000 hrs.)	150% rated VDC at 125°C	
Capacitance tolerance	±0.5 pF, ±5%, ±10%	Temperature coefficient	0±30ppm/°C	
Dielectric strength	200% rated VDC for 10 s			

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8

# Explanation of Part Numbers



Style
S Bulk
R Taped and Reel
B Taped and Bulk

4

Rated Vo	oltage	•	

2A 100V

1H 50V

6

5

 OR5
 0.5 pF

 O10
 1pF

 100
 10pF

 101
 100 pF

 102
 1KpF

103

10KpF

Rated C	Capacitance	C	apacita	ance Tolerance
0R5	0.5 pF		С	±0.25 pF
010	1pF		D	±0.5 pF

J

Κ

Μ



10

С	NPO/COG
В	X7R
Ε	75U

Temperature Coefficient

11

12	

Suffix: Lead Spacing

Α	2.5mm
В	5.0mm

Design and specifications are subject to change without notice	Ask factory for technical specifications before purchase and/or use.
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Whenever a doubt about safety issues arises from this product, please inform us immediately for technical consultation.

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# Panasonic

#### Terminals

- · Parallel wire leads, iron-nickel, thinned
- Crimped leads
- · Non-standard lead lengths on request

#### Marking

Rated capacitance, tolerance, manufacturer's logo, ceramic material, voltage

#### Packing

Optionally:

- Taped (reel or ammo pack)
- Bulk

# Maximum ratings

 Climactic category in accordance with IEC 68-1: 55/125/56

#### Available capacitance tolerances

Rated capacitance	Tolerance	Symbol
CR < 10 pF	$\Delta C_R = \pm 0.5 \text{ pF}$	$D^1$
	$\Delta C_R = \pm 1.0 \text{ pF}$	F
CR ≥ 10 pF	$\Delta C_R/C_R = \pm 5\%$	J <sup>1</sup>
	$\Delta C_R/C_R = \pm 10\%$	K

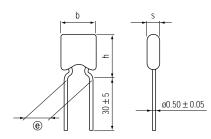
#### Rated voltage values

 $V_{R} = 50 V^{2}$ , 100V

<sup>1</sup> Standard tolerance

<sup>2</sup> Also suitable for 63V applications

#### **Dimensions in mm** (not to scale)





Lead spacing (e) = 2.5 + 0.6 - 0.1 mmh max. = 5.5 b max. = 5.0 s max. = 2.5



Lead spacing  $\textcircled{e} = 5.0^{+0.6}_{-0.1}$  mm h max. = 5.5 b max. = 5.0 s max. = 2.5

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