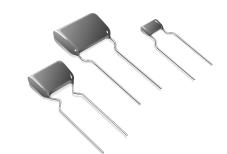
Ceramic Multilayer Radial Leaded Capacitor

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

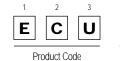
Major Specifications

| 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 | | | |

9

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. |
|--|--|
|--|--|

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 ¹ |
| | $\Delta C_R/C_R = \pm 10\%$ | K |

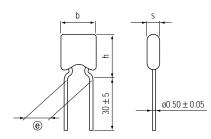
Rated voltage values

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

¹ Standard tolerance

² 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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