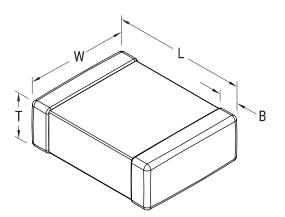
## KEMET Part Number: CBR02C509B5GAC



## CBR-SMD RF C0G, Ceramic, High Q, 5 pF, +/-0.1 pF, 50 VDC, C0G, SMD, Fixed, RF, Ultra High Q, Low ESR, Class I, 0201



| Dimensions |                  |  |
|------------|------------------|--|
| L          | 0.6mm +/-0.03mm  |  |
| W          | 0.3mm +/-0.03mm  |  |
| Т          | 0.3mm +/-0.03mm  |  |
| В          | 0.15mm +/-0.05mm |  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 15000                    |  |

| General Information |   |
|---------------------|---|
| Supplier:           | KEMET   |
| Series:             | CBR-SMD RF C0G                                    |
| Style:              | SMD Chip  |
| Description:        | SMD, Fixed, RF, Ultra High Q,<br>Low ESR, Class I |
| Features:           | Ultra High Q, Low ESR, Class I                    |
| RoHS:               | Yes   |
| Termination:        | Tin   |
| Marking:            | No  |
| Miscellaneous:      | Minimum Q = 900                                   |
| Notes:              | Solder Reflow Only                                |
| Chip Size:          | 0201  |

| Specifications                      |                     |  |
|-------------------------------------|---------------------|--|
| Capacitance:                        | 5 pF                |  |
| Capacitance Tolerance:              | +/-0.1 pF           |  |
| Voltage DC:                         | 50 VDC              |  |
| Dielectric Withstanding<br>Voltage: | 125 V               |  |
| Temperature Range:                  | -55/+125C           |  |
| Temperature Coefficient:            | COG                 |  |
| Dissipation Factor:                 | 0.20%               |  |
| Aging Rate:                         | 0% Loss/Decade Hour |  |
| Insulation Resistance:              | 10 GOhms            |  |
| Quality Factor:                     | 900                 |  |

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