

**KEMET Part Number: C0603C820F5GACTU**  
(C0603C820F5GAC7867)

Ceramic, SMD Comm COG, 82 pF, 1%, 50 V, 0603, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I



CeramicChipSld  
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**Dimensions**

|   |                  |
|---|------------------|
| L | 1.6mm +/-0.15mm  |
| W | 0.8mm +/-0.15mm  |
| T | 0.8mm +/-0.07mm  |
| S | 0.7mm MIN        |
| B | 0.35mm +/-0.15mm |

**Packaging Specifications**

|                     |                        |
|---------------------|------------------------|
| Packaging:          | T&R, 180mm, Paper Tape |
| Packaging Quantity: | 4000                   |

**General Information**

|                |                                                         |
|----------------|---------------------------------------------------------|
| Style:         | SMD Chip                                                |
| Series:        | SMD Comm COG                                            |
| Chip Size:     | 0603                                                    |
| Description:   | SMD, MLCC, Ultra-Stable, Low Loss, Class I              |
| Features:      | Ultra-Stable, Low Loss, Class I                         |
| RoHS:          | Yes                                                     |
| Termination:   | Tin                                                     |
| Marking:       | No                                                      |
| Failure Rate:  | N/A                                                     |
| Miscellaneous: | Note: KEMET 50V rated parts may be operated at 63 Volts |

**Specifications**

|                                  |                     |
|----------------------------------|---------------------|
| Capacitance:                     | 82 pF               |
| Capacitance Tolerance:           | 1%                  |
| Voltage DC:                      | 50 VDC              |
| Dielectric Withstanding Voltage: | 125 V               |
| Temperature Range:               | -55/+125C           |
| Temperature Coefficient:         | COG                 |
| Dissipation Factor:              | 0.1% 1MHz 25C       |
| Aging Rate:                      | 0% Loss/Decade Hour |
| Insulation Resistance:           | 100 GOhms           |