

**KEMET Part Number: C0805X683K1RALTU**  
(C0805X683K1RAL7800)



SMD Comm X7R Flex, Ceramic, 0.068 uF, 10%, 100 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805



| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0805            |
| L          | 2mm +/-0.3mm    |
| W          | 1.25mm +/-0.3mm |
| T          | 1mm +/-0.20mm   |
| S          | 0.75mm MIN      |
| B          | 0.5mm +/-0.25mm |

| Packaging Specifications |                          |
|--------------------------|--------------------------|
| Packaging:               | T&R, 180mm, Plastic Tape |
| Packaging Quantity:      | 2500                     |

| General Information |   |
|---------------------|---|
| Series:             | SMD Comm X7R Flex   |
| Style:              | SMD Chip  |
| Description:        | SMD, MLCC, FT-CAP, Temperature Stable   |
| Features:           | FT-CAP, Temperature Stable  |
| RoHS:               | No  |
| Prop 65:            | <b>WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a> . |
| Termination:        | Flexible Termination With Lead (SnPb)   |
| Marking:            | No  |
| AEC-Q200:           | No  |
| Component Weight:   | 13 mg   |
| Shelf Life:         | 78 Weeks  |
| MSL:                | 1   |

| Specifications  |   |
|---|---|
| Capacitance:  | 0.068 uF  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 100 VDC   |
| Dielectric Withstanding Voltage:                                    | 250 VDC   |
| Temperature Range:  | -55/+125°C                                      |
| Temperature Coefficient:  | X7R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor:   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate:   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance:  | 14.7059 GOhms                                   |

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