

**KEMET Part Number: C0603T271K5RALTU**  
(C0603T271K5RAL7867)

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a YAGEO company

SMD COTS X7R, Ceramic, 270 pF, 10%, 50 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0603




#### Dimensions

| Chip Size | 0603             |
|-----------|------------------|
| 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

|                            |                        |
|----------------------------|------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Paper Tape |
| <b>Packaging Quantity:</b> | 4000                   |

#### General Information

|                          |   |
|--------------------------|---|
| <b>Series:</b>           | SMD COTS X7R  |
| <b>Style:</b>            | SMD Chip  |
| <b>Description:</b>      | SMD, MLCC, COTS, Temperature Stable, Class II   |
| <b>Features:</b>         | Temperature Stable, Class II  |
| <b>RoHS:</b>             | No  |
| <b>Prop 65:</b>          |  <b>WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a> . |
| <b>SCIP Number:</b>      | 2d771165-5336-48a3-96fa-3663929fd828  |
| <b>Termination:</b>      | Lead (SnPb)   |
| <b>Marking:</b>          | No  |
| <b>Failure Rate:</b>     | Testing per MIL-PRF-55681 PDA 8%  |
| <b>AEC-Q200:</b>         | No  |
| <b>Component Weight:</b> | 4800 ug   |
| <b>Shelf Life:</b>       | 78 Weeks  |
| <b>MSL:</b>              | 1   |

#### Specifications

|  |   |
|--|---|
| <b>Capacitance:</b>  | 270 pF  |
| <b>Measurement Condition:</b>  | 1 kHz 1.0Vrms                                   |
| <b>Capacitance Tolerance:</b>  | 10%   |
| <b>Voltage DC:</b>   | 50 VDC  |
| <b>Dielectric Withstanding Voltage:</b>                                    | 125 VDC   |
| <b>Temperature Range:</b>  | -55/+125°C                                      |
| <b>Temperature Coefficient:</b>  | X7R   |
| <b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b> | 15%, 1kHz 1.0Vrms                               |
| <b>Dissipation Factor:</b>   | 2.5% 1 kHz 1.0Vrms                              |
| <b>Aging Rate:</b>   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| <b>Insulation Resistance:</b>  | 100 GOhms                                       |

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