

**KEMET Part Number: C0805T471K5RCLTM**  
(C0805T471K5RCL7025)

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a YAGEO company

SMD COTS X7R, Ceramic, 470 pF, 10%, 50 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0805




#### Dimensions

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0805             |
| L          | 2mm +/-0.2mm     |
| W          | 1.25mm +/-0.2mm  |
| T          | 0.78mm +/-0.10mm |
| S          | 0.75mm MIN       |
| B          | 0.5mm +/-0.25mm  |

#### Packaging Specifications

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

#### General Information

|                   |                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series:           | SMD COTS X7R                                                                                                                                                                                          |
| Style:            | SMD Chip                                                                                                                                                                                              |
| Description:      | SMD, MLCC, COTS, Temperature Stable, Class II                                                                                                                                                         |
| Features:         | Temperature Stable, Class II                                                                                                                                                                          |
| RoHS:             | No                                                                                                                                                                                                    |
| Prop 65:          |  <b>WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a> |
| SCIP Number:      | 2d771165-5336-48a3-96fa-3663929fd828                                                                                                                                                                  |
| Termination:      | Lead (SnPb)                                                                                                                                                                                           |
| Marking:          | Yes                                                                                                                                                                                                   |
| Failure Rate:     | Testing per MIL-PRF-55681 PDA 8%, DPA per EIA-469, Humidity per MIL-STD-202, Method 103, Condition A                                                                                                  |
| AEC-Q200:         | No                                                                                                                                                                                                    |
| Component Weight: | 11 mg                                                                                                                                                                                                 |
| Shelf Life:       | 78 Weeks                                                                                                                                                                                              |
| MSL:              | 1                                                                                                                                                                                                     |

#### Specifications

|                                                                     |                                                 |
|---------------------------------------------------------------------|-------------------------------------------------|
| Capacitance:                                                        | 470 pF                                          |
| Measurement Condition:                                              | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:                                              | 10%                                             |
| Voltage DC:                                                         | 50 VDC                                          |
| Dielectric Withstanding Voltage:                                    | 125 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:                                              | 100 GOhms                                       |

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