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**General Information**

|                          |                                       |
|--------------------------|---------------------------------------|
| Series                   | SMD Comm Y5V                          |
| Style                    | SMD Chip                              |
| Description              | SMD, MLCC, General Purpose, Class III |
| Features                 | Class III                             |
| RoHS                     | Yes                                   |
| Termination              | Tin                                   |
| Marking                  | No                                    |
| AEC-Q200                 | No                                    |
| Typical Component Weight | 1.21 mg                               |
| Shelf Life               | 78 Weeks                              |
| MSL                      | 1                                     |

**Dimensions**

|                      |                 |
|----------------------|-----------------|
| L                    | 1mm +/-0.05mm   |
| W                    | 0.5mm +/-0.05mm |
| T                    | 0.5mm +/-0.05mm |
| S                    | 0.3mm MIN       |
| B                    | 0.3mm +/-0.1mm  |
| Case Code (EIA / mm) | 0402 / 1005     |

**Packaging Specifications**

|                    |                        |
|--------------------|------------------------|
| Packaging          | T&R, 180mm, Paper Tape |
| Packaging Quantity | 10000                  |

**Specifications**

|  |   |
|--|---|
| Capacitance  | 0.1 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | -20/+80%  |
| Voltage DC   | 16 VDC  |
| Dielectric Withstanding Voltage                                    | 40 VDC  |
| Temperature Range  | -30/+85°C                                       |
| Temp. Coefficient  | Y5V   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | +22%/-82%, 1 kHz 1.0Vrms                        |
| Dissipation Factor   | 7% 1 kHz 1.0Vrms                                |
| Aging Rate   | 7% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 1 GOhms   |

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