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| General Information      |                                         |
|--------------------------|-----------------------------------------|
| Series                   | SMD Comm X7R                            |
| Style                    | SMD Chip                                |
| Description              | SMD, MLCC, Temperature Stable, Class II |
| Features                 | Temperature Stable, Class II            |
| RoHS                     | Yes                                     |
| Termination              | Tin                                     |
| Marking                  | No                                      |
| AEC-Q200                 | No                                      |
| Typical Component Weight | 1.21 mg                                 |
| Shelf Life               | 78 Weeks                                |
| MSL                      | 1                                       |

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0402            |
| L          | 1mm +/-0.05mm   |
| W          | 0.5mm +/-0.05mm |
| T          | 0.5mm +/-0.05mm |
| S          | 0.3mm MIN       |
| B          | 0.3mm +/-0.1mm  |

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

| Specifications                                                     |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 12 pF                                           |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 10%                                             |
| Voltage DC                                                         | 16 VDC                                          |
| Dielectric Withstanding Voltage                                    | 40 VDC                                          |
| Temperature Range                                                  | -55/+125°C                                      |
| Temp. Coefficient                                                  | X7R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor                                                 | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

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