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| General Information      |                                                             |
|--------------------------|-------------------------------------------------------------|
| Series                   | SMD Auto X8G HT150C                                         |
| Style                    | SMD Chip                                                    |
| Description              | SMD, MLCC, High Temperature, Ultra-Stable, Automotive Grade |
| Features                 | High Temperature, Ultra-Stable, Automotive Grade            |
| RoHS                     | Yes                                                         |
| Termination              | Tin                                                         |
| Marking                  | No                                                          |
| Qualifications           | AEC-Q200                                                    |
| AEC-Q200                 | Yes                                                         |
| Typical Component Weight | 3.7 mg                                                      |
| Shelf Life               | 78 Weeks                                                    |
| MSL                      | 1                                                           |

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.07mm  |
| S          | 0.5mm MIN        |
| B          | 0.35mm +/-0.15mm |

| Packaging Specifications |                        |
|--------------------------|------------------------|
| Packaging                | T&R, 330mm, Paper Tape |
| Packaging Quantity       | 15000                  |

| Specifications                                                     |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 7.5 pF                                          |
| Measurement Condition                                              | 1 MHz 1.0Vrms                                   |
| Tolerance                                                          | +/-0.25 pF                                      |
| Voltage DC                                                         | 250 VDC                                         |
| Dielectric Withstanding Voltage                                    | 625 VDC                                         |
| Temperature Range                                                  | -55/+150°C                                      |
| Temp. Coefficient                                                  | X8G                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1MHz 1.0Vrms                          |
| Dissipation Factor                                                 | 0.1% 1 MHz 1.0Vrms                              |
| Aging Rate                                                         | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

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