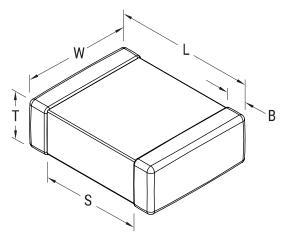


## C0603X508B1HACAUTO

SMD Auto X8R HT150C Flex, Ceramic, 0.5 pF, +/-0.1 pF, 100 VDC, X8R, SMD, MLCC, High Temperature, Ultra-Stable, FT-CAP, Automotive Grade, 0603, 0.4 mm



Click here for the 3D model.

| General Information      |   |
|--------------------------|---|
| Series                   | SMD Auto X8R HT150C Flex  |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, High Temperature,<br>Ultra-Stable, FT-CAP,<br>Automotive Grade |
| Features                 | High Temperature, Ultra-Stable,<br>FT-CAP, Automotive Grade               |
| RoHS                     | Yes   |
| Termination              | Flexible Termination  |
| Marking                  | No  |
| Qualifications           | AEC-Q200  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 7.3 mg  |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.17mm  |
| W          | 0.8mm +/-0.15mm  |
| т          | 0.8mm +/-0.15mm  |
| S          | 0.4mm MIN        |
| В          | 0.45mm +/-0.15mm |
| В          | 0.45mm +/-0.15mm |

## Packaging Specifications Packaging

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

| Specifications   |  |
|--|--|
| Capacitance  | 0.5 pF   |
| Measurement Condition  | 1 MHz 1.0Vrms                                      |
| Tolerance  | +/-0.1 pF  |
| Voltage DC   | 100 VDC  |
| Dielectric Withstanding Voltage  | 250 VDC  |
| Temperature Range  | -55/+150°C   |
| Temp. Coefficient  | X8R  |
| Capacitance Change with<br>Reference to +25°C and 0 VDC<br>Applied (TCC) | 15%, 1MegaHz 1.0Vrms                               |
| Dissipation Factor   | 2.5% 1 MHz 1.0Vrms                                 |
| Aging Rate   | 0% Loss/Decade Hour: Referee<br>Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms  |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.