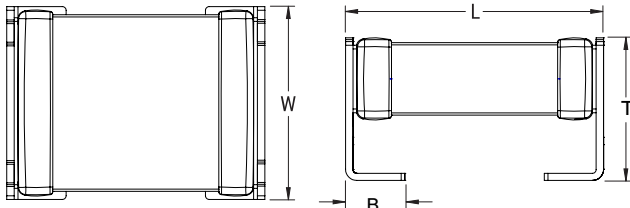


TOP VIEW  
Single or Double Chip Stack

PROFILE VIEW  
Single Chip Stack



Click [here](#) for the 3D model.

## General Information

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Series                   | KPS SMD Auto X7R                                            |
| Style                    | Stacked Chip                                                |
| Description              | SMD, MLCC, Stacked, Single Chip, Class II, Automotive Grade |
| Features                 | Automotive Grade                                            |
| RoHS                     | Yes                                                         |
| Termination              | Tin                                                         |
| Qualifications           | AEC-Q200                                                    |
| AEC-Q200                 | Yes                                                         |
| Typical Component Weight | 160 mg                                                      |
| Shelf Life               | 78 Weeks                                                    |
| MSL                      | 1                                                           |

## Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 1uF                                             |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 10%                                             |
| Voltage DC                                                         | 100 VDC                                         |
| Dielectric Withstanding Voltage                                    | 250 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                                                 | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 500 MOhms                                       |

## Dimensions

|   |                  |
|---|------------------|
| L | 3.5mm +/-0.3mm   |
| W | 2.6mm +/-0.3mm   |
| T | 3.35mm +/-0.10mm |
| B | 0.8mm +/-0.15mm  |

## Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 600                      |

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.