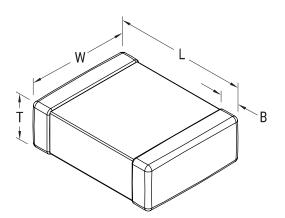
## KEMET Part Number: C1812X103KDRACAUTO



## SMD Auto X7R HV Flex, Ceramic, 0.01 uF, 10%, 1000 VDC, X7R, SMD, MLCC, FT-CAP, Automotive Grade, 1812



| Dimensions |                 |  |
|------------|-----------------|--|
| L          | 4.5mm +/-0.4mm  |  |
| W          | 3.2mm +/-0.3mm  |  |
| Т          | 1.4mm +/-0.15mm |  |
| В          | 0.7mm +/-0.35mm |  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 1000                     |  |

| General Information |  |  |
|---------------------|--|--|
| Supplier:           | KEMET  |  |
| Series:             | SMD Auto X7R HV Flex   |  |
| Style:              | SMD Chip   |  |
| Description:        | SMD, MLCC, FT-CAP,<br>Automotive Grade   |  |
| Features:           | FT-CAP, Automotive Grade   |  |
| RoHS:               | Yes  |  |
| Termination:        | Flexible Termination   |  |
| Marking:            | No   |  |
| Qualifications:     | AEC-Q200   |  |
| AEC-Q200:           | Yes  |  |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |  |
| Chip Size:          | 1812   |  |
| Shelf Life:         | 78 Weeks   |  |
| MSL:                | 1  |  |

| Specifications                      |                     |  |
|-------------------------------------|---------------------|--|
| Capacitance:                        | 0.01 uF             |  |
| Capacitance Tolerance:              | 10%                 |  |
| Voltage DC:                         | 1000 VDC            |  |
| Dielectric Withstanding<br>Voltage: | 1,200 V             |  |
| Temperature Range:                  | -55/+125C           |  |
| Temperature Coefficient:            | X7R                 |  |
| Dissipation Factor:                 | 2.50% 1kHz 25C      |  |
| Aging Rate:                         | 3% Loss/Decade Hour |  |
| Insulation Resistance:              | 100 GOhms           |  |

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