

**KEMET Part Number: C1812C102KDRACTU**  
(C1812C102KDRAC7800)

Capacitor, Ceramic, SMD, MLCC, High Voltage, Temperature Stable, 1000 pF, +/-10% Tol, 1000 V, X7R, 1812 (4532 metric)



**General Information**

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| <b>Supplier:</b>                | KEMET                                       |
| <b>Application:</b>             | Standard Chip                               |
| <b>Chip Size:</b>               | 1812 (4532 metric)                          |
| <b>Temperature Coefficient:</b> | X7R                                         |
| <b>Part Type Description:</b>   | SMD, MLCC, High Voltage, Temperature Stable |
| <b>Termination Type:</b>        | Tin (Sn)                                    |
| <b>Marked:</b>                  | No                                          |
| <b>RoHS:</b>                    | Yes                                         |

**Dimensions (mm)**

| Symbol   | Dimension | Tolerance |
|----------|-----------|-----------|
| <b>L</b> | 4.5       | +/-0.3    |
| <b>W</b> | 3.2       | +/-0.3    |
| <b>T</b> | 1.4       | +/-0.15   |
| <b>B</b> | 0.6       | +/-0.35   |

**Packaging Specifications**

|                          |              |
|--------------------------|--------------|
| <b>Package Kind:</b>     | T&R          |
| <b>Package Size:</b>     | 7 in/180 mm  |
| <b>Package Type:</b>     | Plastic Tape |
| <b>Package Quantity:</b> | 1000         |

**Specifications**

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| <b>Capacitance:</b>           | 1000 pF                                                                  |
| <b>Voltage:</b>               | 1000 V                                                                   |
| <b>Tolerance:</b>             | +/-10%                                                                   |
| <b>Temperature Range:</b>     | -55/+125C                                                                |
| <b>Dissipation Factor:</b>    | 2.5%                                                                     |
| <b>Failure Rate:</b>          | N/A                                                                      |
| <b>Aging Rate:</b>            | 3% loss/decade hour                                                      |
| <b>Insulation Resistance:</b> | 100 GOhm                                                                 |
| <b>Dielectric Strength:</b>   | 1200 V                                                                   |
| <b>Miscellaneous:</b>         | Note: Referee time for X7R dielectric for this part number is 1000 hours |