## **KEMET Part Number: C1206X102KDRACTU**

(C1206X102KDRAC7800)



SMD Comm X7R HV Flex, Ceramic, 1000 pF, 10%, 1000 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1206



| Dimensions |                 |  |
|------------|-----------------|--|
| L          | 3.3mm +/-0.4mm  |  |
| W          | 1.6mm +/-0.35mm |  |
| Т          | 1mm +/-0.20mm   |  |
| В          | 0.6mm +/-0.25mm |  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 2500                     |  |

| General Information |  |  |
|---------------------|--|--|
| Series:             | SMD Comm X7R HV Flex   |  |
| Style:              | SMD Chip   |  |
| Description:        | SMD, MLCC, FT-CAP,<br>Temperature Stable                                       |  |
| Features:           | FT-CAP, Temperature Stable   |  |
| RoHS:               | Yes  |  |
| Termination:        | Flexible Termination   |  |
| Marking:            | No   |  |
| AEC-Q200:           | No   |  |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |  |
| Chip Size:          | 1206   |  |
| Shelf Life:         | 78 Weeks   |  |
| MSL:                | 1  |  |

| Specifications  |                       |
|---|-----------------------|
| Capacitance:  | 1000 pF, 1kHz 1.0Vrms |
| Capacitance Tolerance:  | 10%                   |
| Voltage DC:   | 1000 VDC              |
| Dielectric Withstanding<br>Voltage:                                 | 1200 VDC              |
| Temperature Range:  | -55/+125°C            |
| Temperature Coefficient:  | X7R                   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 15%, 1kHz 1.0Vrms     |
| Dissipation Factor:   | 2.50% 1kHz 1.0Vrms    |
| Aging Rate:   | 3% Loss/Decade Hour   |
| Insulation Resistance:  | 100 GOhms             |

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