

**KEMET Part Number: C1808C680JHRACTU**  
(C1808C680JHRAC7800)

SMD Comm X7R HV, Ceramic, 68 pF, 5%, 3000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 1808



| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 1808            |
| L          | 4.7mm +/-0.5mm  |
| W          | 2mm +/-0.2mm    |
| T          | 1.6mm +/-0.15mm |
| B          | 0.6mm +/-0.35mm |

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

| General Information |   |
|---------------------|---|
| Series:             | SMD Comm X7R HV                             |
| Style:              | SMD Chip                                    |
| Description:        | SMD, MLCC, High Voltage, Temperature Stable |
| Features:           | High Voltage                                |
| RoHS:               | Yes   |
| Termination:        | Tin   |
| Marking:            | No  |
| AEC-Q200:           | No  |
| Shelf Life:         | 78 Weeks                                    |
| MSL:                | 1   |

| Specifications  |   |
|---|---|
| Capacitance:  | 68 pF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 5%  |
| Voltage DC:   | 3000 VDC  |
| Dielectric Withstanding Voltage:                                    | 3600 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:   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate:   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance:  | 100 GOhms                                       |