

**KEMET Part Number: C0603C225K8PACTU**  
(C0603C225K8PAC7867)

SMD Comm X5R, Ceramic, 2.2 uF, 10%, 10 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0603



**Dimensions**

| Chip Size | 0603             |
|-----------|------------------|
| L         | 1.6mm +/-0.15mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.10mm  |
| S         | 0.7mm MIN        |
| B         | 0.35mm +/-0.15mm |

**Packaging Specifications**

|                            |                        |
|----------------------------|------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Paper Tape |
| <b>Packaging Quantity:</b> | 4000                   |

**General Information**

|                     |   |
|---------------------|---|
| <b>Series:</b>      | SMD Comm X5R                            |
| <b>Style:</b>       | SMD Chip                                |
| <b>Description:</b> | SMD, MLCC, Temperature Stable, Class II |
| <b>Features:</b>    | Temperature Stable, Class II            |
| <b>RoHS:</b>        | Yes                                     |
| <b>Termination:</b> | Tin                                     |
| <b>Marking:</b>     | No                                      |
| <b>AEC-Q200:</b>    | No                                      |
| <b>Shelf Life:</b>  | 78 Weeks                                |
| <b>MSL:</b>         | 1                                       |

**Specifications**

|  |   |
|--|---|
| <b>Capacitance:</b>  | 2.2 uF  |
| <b>Measurement Condition:</b>  | 1 kHz 1.0Vrms                                 |
| <b>Capacitance Tolerance:</b>  | 10%   |
| <b>Voltage DC:</b>   | 10 VDC  |
| <b>Dielectric Withstanding Voltage:</b>                                    | 25 VDC  |
| <b>Temperature Range:</b>  | -55/+85°C                                     |
| <b>Temperature Coefficient:</b>  | X5R   |
| <b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b> | 15%, 1kHz 0.5Vrms                             |
| <b>Dissipation Factor:</b>   | 10% 1kHz 1.0Vrms                              |
| <b>Aging Rate:</b>   | 5% Loss/Decade Hour: Referee Time is 48 Hours |
| <b>Insulation Resistance:</b>  | 45 MOhms                                      |