

**KEMET Part Number: C0603C684K4PACTU**  
(C0603C684K4PAC7867)

SMD Comm X5R, Ceramic, 0.68 uF, 10%, 16 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0603



**Dimensions**

|          |                  |
|----------|------------------|
| <b>L</b> | 1.6mm +/-0.15mm  |
| <b>W</b> | 0.8mm +/-0.15mm  |
| <b>T</b> | 0.8mm +/-0.10mm  |
| <b>S</b> | 0.7mm MIN        |
| <b>B</b> | 0.35mm +/-0.15mm |

**Packaging Specifications**

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

**General Information**

|                       |  |
|-----------------------|--|
| <b>Supplier:</b>      | KEMET  |
| <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>Miscellaneous:</b> | Note: Referee time for X5R dielectric for this part number is 1000 hours |
| <b>Chip Size:</b>     | 0603   |

**Specifications**

|   |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 0.68 uF             |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 16 VDC              |
| <b>Dielectric Withstanding Voltage:</b> | 40 V                |
| <b>Temperature Range:</b>               | -55/+85C            |
| <b>Temperature Coefficient:</b>         | X5R                 |
| <b>Dissipation Factor:</b>              | 10.00% 1kHz 25C     |
| <b>Aging Rate:</b>                      | 5% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 735 MOhms           |