## KEMET Part Number: C0402C105K8PACTU

(C0402C105K8PAC7867)



## SMD Comm X5R, Ceramic, 1 uF, 10%, 10 VDC, X5R, SMD, MLCC, Temperature Stable, Class II, 0402



| Dimensions |                 |
|------------|-----------------|
| L          | 1mm +/-0.05mm   |
| W          | 0.5mm +/-0.05mm |
| Т          | 0.5mm +/-0.05mm |
| S          | 0.3mm MIN       |
| В          | 0.3mm +/-0.1mm  |

| Packaging Specifications |                        |  |
|--------------------------|------------------------|--|
| Packaging:               | T&R, 180mm, Paper Tape |  |
| Packaging Quantity:      | 10000                  |  |

| General Information |  |
|---------------------|--|
| Series:             | SMD Comm X5R   |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, Temperature<br>Stable, Class II                                   |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| AEC-Q200:           | No   |
| Miscellaneous:      | Note: Referee time for X5R<br>dielectric for this part number is<br>48 hours |
| Chip Size:          | 0402   |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |                          |  |
|---|--------------------------|--|
| Capacitance:  | 1000000 pF, 1kHz 1.0Vrms |  |
| Capacitance Tolerance:  | 10%                      |  |
| Voltage DC:   | 10 VDC                   |  |
| Dielectric Withstanding<br>Voltage:                                       | 25 VDC                   |  |
| Temperature Range:  | -55/+85°C                |  |
| Temperature Coefficient:  | X5R                      |  |
| Capacitance Change with<br>Reference to +25°C and 0 VDC<br>Applied (TCC): | 15%, 1kHz 1.0Vrms        |  |
| Dissipation Factor:   | 10.00% 1kHz 1.0Vrms      |  |
| Aging Rate:   | 5% Loss/Decade Hour      |  |
| Insulation Resistance:  | 100 MOhms                |  |

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