## KEMET Part Number: C0603C682K1RACTU

(C0603C682K1RAC7867)



Ceramic, Commercial-(CxxxxC), 6800 pF, 10%, 100 V, 0603, X7R, SMD, MLCC, Temperature Stable, Class II



| Dimensions |                  |  |
|------------|------------------|--|
| L          | 1.6mm +/-0.15mm  |  |
| W          | 0.8mm +/-0.15mm  |  |
| Т          | 0.8mm +/-0.07mm  |  |
| S          | 0.7mm MIN        |  |
| В          | 0.35mm +/-0.15mm |  |

| Packaging Specifications |                        |  |
|--------------------------|------------------------|--|
| Packaging:               | T&R, 180mm, Paper Tape |  |
| Packaging Quantity:      | 4000                   |  |

| General Information |  |
|---------------------|--|
| Style:              | SMD Chip   |
| Series:             | Commercial-(CxxxxC)  |
| Chip Size:          | 0603   |
| Description:        | SMD, MLCC, Temperature<br>Stable, Class II                                     |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| Failure Rate:       | N/A  |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |

| Specifications                      |                     |  |
|-------------------------------------|---------------------|--|
| Capacitance:                        | 6800 pF             |  |
| Capacitance Tolerance:              | 10%                 |  |
| Voltage DC:                         | 100 VDC             |  |
| Dielectric Withstanding<br>Voltage: | 250 V               |  |
| Temperature Range:                  | -55/+125C           |  |
| Temperature Coefficient:            | X7R                 |  |
| Dissipation Factor:                 | 2.5%                |  |
| Aging Rate:                         | 3% Loss/Decade Hour |  |
| Insulation Resistance:              | 100 GOhms           |  |

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