## KEMET Part Number: C0603C681K1RACTU

(C0603C681K1RAC7867)



Capacitor, Ceramic, SMD, MLCC, Temperature Stable, Class II, 680 pF, +/-10% Tol, 100 V, X7R, 0603 (1608 metric)



| General Information      |  |  |
|--------------------------|--|--|
| Supplier:                | KEMET                                      |  |
| Application:             | Standard Chip                              |  |
| Chip Size:               | 0603 (1608 metric)                         |  |
| Temperature Coefficient: | X7R  |  |
| Part Type Description:   | SMD, MLCC, Temperature<br>Stable, Class II |  |
| Termination Type:        | Tin (Sn)                                   |  |
| Marked:                  | No   |  |
| RoHS:                    | Yes  |  |

| Dimensions (mm) |           |           |
|-----------------|-----------|-----------|
| Symbol          | Dimension | Tolerance |
| L               | 1.6       | +/-0.15   |
| W               | 0.8       | +/-0.15   |
| Т               | 0.8       | +/-0.07   |
| В               | 0.35      | +/-0.15   |
| S               | 0.7       | MIN       |

| Packaging Specifications |             |  |
|--------------------------|-------------|--|
| Package Kind:            | T&R         |  |
| Package Size:            | 7 in/180 mm |  |
| Package Type:            | Paper Tape  |  |
| Package Quantity:        | 4000        |  |

| Specifications         |  |  |
|------------------------|--|--|
| Capacitance:           | 680 pF   |  |
| Voltage:               | 100 V  |  |
| Tolerance:             | +/-10%   |  |
| Temperature Range:     | -55/+125C  |  |
| Dissipation Factor:    | 2.5%   |  |
| Failure Rate:          | N/A  |  |
| Aging Rate:            | 3% loss/decade hour  |  |
| Insulation Resistance: | 100 GOhm   |  |
| Dielectric Strength:   | 250 V  |  |
| Miscellaneous:         | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |  |

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