

**KEMET Part Number: C0805C822K5RACTU**  
(C0805C822K5RAC7800)

Capacitor, Ceramic, SMD, MLCC, Temperature Stable, Class II, 8200 pF, +/-10% Tol, 50 V, X7R, 0805 (2012 metric)



| General Information      |   |
|--------------------------|---|
| Supplier:                | KEMET                                   |
| Application:             | Standard Chip                           |
| Chip Size:               | 0805 (2012 metric)                      |
| Temperature Coefficient: | X7R                                     |
| Part Type Description:   | SMD, MLCC, Temperature Stable, Class II |
| Termination Type:        | Tin (Sn)                                |
| Marked:                  | No                                      |
| RoHS:                    | Yes                                     |

| Dimensions (mm) |           |           |
|-----------------|-----------|-----------|
| Symbol          | Dimension | Tolerance |
| L               | 2         | +/-0.2    |
| W               | 1.25      | +/-0.2    |
| T               | 0.78      | +/-0.10   |
| B               | 0.5       | +/-0.25   |
| S               | 0.75      | MIN       |

| Specifications         |  |
|------------------------|--|
| Capacitance:           | 8200 pF  |
| Voltage:               | 50 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:   | 125 V  |
| Miscellaneous:         | Note: Referee time for X7R dielectric for this part number is 1000 hours |

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