

**KEMET Part Number: C0805C223K5RACTU**  
(C0805C223K5RAC7800)

SMD Comm X7R, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0805



**Dimensions**

Dimension	Value
L	2mm +/-0.2mm
W	1.25mm +/-0.2mm
T	0.78mm +/-0.10mm
S	0.75mm MIN
B	0.5mm +/-0.25mm

**Packaging Specifications**

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

**General Information**

<b>Series:</b>	SMD Comm X7R
<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>AEC-Q200:</b>	No
<b>Miscellaneous:</b>	Note: Referee time for X7R dielectric for this part number is 1000 hours
<b>Chip Size:</b>	0805
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

**Specifications**

<b>Capacitance:</b>	22000 pF, 1kHz 1.0Vrms
<b>Capacitance Tolerance:</b>	10%
<b>Voltage DC:</b>	50 VDC
<b>Dielectric Withstanding Voltage:</b>	125 VDC
<b>Temperature Range:</b>	-55/+125°C
<b>Temperature Coefficient:</b>	X7R
<b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b>	15%, 1kHz 1.0Vrms
<b>Dissipation Factor:</b>	2.50% 1kHz 1.0Vrms
<b>Aging Rate:</b>	3% Loss/Decade Hour
<b>Insulation Resistance:</b>	45.455 GOhms

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