

**KEMET Part Number: C0603T223K5RACTU**  
(C0603T223K5RAC7867)



SMD COTS X7R, Ceramic, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0603



**Dimensions**

Chip Size	0603
L	1.6mm +/-0.15mm
W	0.8mm +/-0.15mm
T	0.8mm +/-0.07mm
S	0.7mm MIN
B	0.35mm +/-0.15mm

**Packaging Specifications**

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

**General Information**

<b>Series:</b>	SMD COTS X7R
<b>Style:</b>	SMD Chip
<b>Description:</b>	SMD, MLCC, COTS, Temperature Stable, Class II
<b>Features:</b>	Temperature Stable, Class II
<b>RoHS:</b>	Yes
<b>Termination:</b>	Tin
<b>Marking:</b>	No
<b>Failure Rate:</b>	Testing per MIL-PRF-55681 PDA 8%
<b>AEC-Q200:</b>	No
<b>Component Weight:</b>	4800 ug
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

**Specifications**

<b>Capacitance:</b>	0.022 uF
<b>Measurement Condition:</b>	1 kHz 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>	2.5% 1 kHz 1.0Vrms
<b>Aging Rate:</b>	3% Loss/Decade Hour: Referee Time is 1000 Hours
<b>Insulation Resistance:</b>	45.4545 GOhms

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