

**KEMET Part Number: C0402C220K5GACTU**  
(C0402C220K5GAC7867)

SMD Comm COG, Ceramic, 22 pF, 10%, 50 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0402



**Dimensions**

Dimension	Value
L	1mm +/-0.05mm
W	0.5mm +/-0.05mm
T	0.5mm +/-0.05mm
S	0.3mm MIN
B	0.3mm +/-0.1mm

**Packaging Specifications**

<b>Packaging:</b>	T&R, 180mm, Paper Tape
<b>Packaging Quantity:</b>	10000

**General Information**

<b>Series:</b>	SMD Comm COG
<b>Style:</b>	SMD Chip
<b>Description:</b>	SMD, MLCC, Ultra-Stable, Low Loss, Class I
<b>Features:</b>	Ultra-Stable, Low Loss, Class I
<b>RoHS:</b>	Yes
<b>Termination:</b>	Tin
<b>Marking:</b>	No
<b>AEC-Q200:</b>	No
<b>Miscellaneous:</b>	Note: KEMET 50V rated parts may be operated at 63 Volts
<b>Chip Size:</b>	0402
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

**Specifications**

<b>Capacitance:</b>	22 pF, 1MHz 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>	COG
<b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b>	30 ppm/C, 1MHz 1.0Vrms
<b>Dissipation Factor:</b>	0.10% 1MHz 1.0Vrms
<b>Aging Rate:</b>	0% Loss/Decade Hour
<b>Insulation Resistance:</b>	100 GOhms

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