

**KEMET Part Number: C1210C685K3RACTU**  
(C1210C685K3RAC7800)

SMD Comm X7R, Ceramic, 6.8 uF, 10%, 25 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 1210



**Dimensions**

Dimensions	
Chip Size	1210
L	3.2mm +/-0.3mm
W	2.5mm +/-0.22mm
T	1.7mm +/-0.20mm
B	0.5mm +/-0.25mm

**Packaging Specifications**

<b>Packaging:</b>	T&R, 180mm, Plastic Tape
<b>Packaging Quantity:</b>	2000

**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>Component Weight:</b>	85 mg
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

**Specifications**

<b>Capacitance:</b>	6.8 uF
<b>Measurement Condition:</b>	1 kHz 1.0Vrms
<b>Capacitance Tolerance:</b>	10%
<b>Voltage DC:</b>	25 VDC
<b>Dielectric Withstanding Voltage:</b>	62.5 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>	3.5% 1 kHz 1.0Vrms
<b>Aging Rate:</b>	3% Loss/Decade Hour: Referee Time is 1000 Hours
<b>Insulation Resistance:</b>	73.5 MOhms