

**KEMET Part Number: C0805S102K2RACTU**  
(C0805S102K2RAC7800)

SMD Comm X7R FE, Ceramic, 1000 pF, 10%, 200 VDC, X7R, SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable, 0805



**Dimensions**

<b>L</b>	2mm +/-0.2mm
<b>W</b>	1.25mm +/-0.2mm
<b>T</b>	0.78mm +/-0.10mm
<b>S</b>	0.75mm MIN
<b>B</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 FE
<b>Style:</b>	SMD Chip
<b>Description:</b>	SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable
<b>Features:</b>	FE-CAP, Floating Electrode, Temperature Stable
<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>	1000 pF, 1kHz 1.0Vrms
<b>Capacitance Tolerance:</b>	10%
<b>Voltage DC:</b>	200 VDC
<b>Dielectric Withstanding Voltage:</b>	500 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>	100 GOhms

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