

**KEMET Part Number: C0805W822KBRACU**  
(C0805W822KBRAC7800)

ArcShield SMD Comm X7R HV, Ceramic, 8200 pF, 10%, 630 VDC, X7R, SMD, MLCC, Arcshield, High Voltage, 0805



**Dimensions**

Chip Size	0805
L	2mm +/-0.3mm
W	1.25mm +/-0.3mm
T	1.25mm +/-0.15mm
S	0.75mm MIN
B	0.5mm +/-0.25mm

**Packaging Specifications**

<b>Packaging:</b>	T&R, 180mm, Plastic Tape
<b>Packaging Quantity:</b>	2500

**General Information**

<b>Series:</b>	ArcShield SMD Comm X7R HV
<b>Style:</b>	SMD Chip
<b>Description:</b>	SMD, MLCC, Arcshield, High Voltage
<b>Features:</b>	High Voltage
<b>RoHS:</b>	Yes
<b>Termination:</b>	Flexible Termination
<b>Marking:</b>	No
<b>AEC-Q200:</b>	No
<b>Miscellaneous:</b>	X7R dielectric is not recommended for AC line filtering or pulse applications.
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

**Specifications**

<b>Capacitance:</b>	8200 pF
<b>Measurement Condition:</b>	1 kHz 1.0Vrms
<b>Capacitance Tolerance:</b>	10%
<b>Voltage DC:</b>	630 VDC
<b>Dielectric Withstanding Voltage:</b>	945 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>	10 GOhms