

KEMET Part Number: C0402S102K5RACTU
(C0402S102K5RAC7867)

SMD Comm X7R FE, Ceramic, 1000 pF, 10%, 50 VDC, X7R, SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable, 0402



Dimensions

Dimensions	
Chip Size	0402
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

Packaging:	T&R, 180mm, Paper Tape
Packaging Quantity:	10000

General Information

Series:	SMD Comm X7R FE
Style:	SMD Chip
Description:	SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable
Features:	FE-CAP, Floating Electrode, Temperature Stable
RoHS:	Yes
Termination:	Tin
Marking:	No
AEC-Q200:	No
Miscellaneous:	Note: KEMET 50V rated parts may be operated at 63 Volts.
Shelf Life:	78 Weeks
MSL:	1

Specifications

Capacitance:	1000 pF
Measurement Condition:	1 kHz 1.0Vrms
Capacitance Tolerance:	10%
Voltage DC:	50 VDC
Dielectric Withstanding Voltage:	125 VDC
Temperature Range:	-55/+125°C
Temperature Coefficient:	X7R
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):	15%, 1kHz 1.0Vrms
Dissipation Factor:	2.5% 1kHz 1.0Vrms
Aging Rate:	3% Loss/Decade Hour: Referee Time is 1000 Hours
Insulation Resistance:	100 GOhms