

# KEMET Part Number: C0603S682K5RACAUTO



SMD Auto X7R FE, Ceramic, Floating Electrode, 6800 pF, 10%, 50 VDC, X7R, SMD, MLCC, FE-CAP, Floating Electrode, Automotive Grade, 0603



## Dimensions

<b>L</b>	1.6mm +/-0.15mm
<b>W</b>	0.8mm +/-0.15mm
<b>T</b>	0.8mm +/-0.07mm
<b>S</b>	0.7mm MIN
<b>B</b>	0.35mm +/-0.15mm

## Packaging Specifications

<b>Packaging:</b>	T&R, 180mm, Paper Tape
<b>Packaging Quantity:</b>	4000

## General Information

<b>Supplier:</b>	KEMET
<b>Series:</b>	SMD Auto X7R FE
<b>Style:</b>	SMD Chip
<b>Description:</b>	SMD, MLCC, FE-CAP, Floating Electrode, Automotive Grade
<b>Features:</b>	FE-CAP, Floating Electrode, Automotive Grade
<b>RoHS:</b>	Yes
<b>Termination:</b>	Tin
<b>Marking:</b>	No
<b>Qualifications:</b>	AEC-Q200
<b>AEC-Q200:</b>	Yes
<b>Miscellaneous:</b>	Note: Referee time for X7R dielectric for this part number is 1000 hours
<b>Chip Size:</b>	0603
<b>Shelf Life:</b>	78 Weeks
<b>MSL:</b>	1

## Specifications

<b>Capacitance:</b>	6800 pF
<b>Capacitance Tolerance:</b>	10%
<b>Voltage DC:</b>	50 VDC
<b>Dielectric Withstanding Voltage:</b>	125 V
<b>Temperature Range:</b>	-55/+125C
<b>Temperature Coefficient:</b>	X7R
<b>Dissipation Factor:</b>	2.50% 1kHz 25C
<b>Aging Rate:</b>	3% Loss/Decade Hour
<b>Insulation Resistance:</b>	100 GOhms

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