

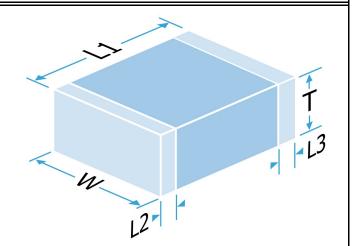
Multilayer Ceramic Chip Capacitor

Part Number: 1206Y1K00222KST

1206 1000V 2.2nF ±10% X7R (2R1) to AEC **Description:** -Q200

A range of X7R MLC capacitors fully tested and approved to automotive specification AEC-Q200. Available in 0603 to 3640 chip sizes with capacitance values up to 5.6uF as standard. A variety of termination options are available, including FlexiCap[™], the world's first commercially available flexible termination.

Parts with WS2 suffix use StackiCap[™] technology. Parts with NC suffix code must be conformally coated after mounting (including between board and chip) to prevent flashover.



Mechanical Specification				
Size Code		1206		
Length (L1) in mm (")		3.2 +0.30/-0.20 (0.126 +0.012/-0.008)		
Width (W) in mm (")		1.6 ± 0.20 (0.063 ± 0.008)		
Thickness (T) in mm (")		1.7 Max (0.068 Max)		
Minimum Termination Band (L2,L3) in mm (")		0.25 (0.010)		
Maximum Termination Band (L2,L3) in mm (")		0.75 (0.030)		
Termination Material		FlexiCap™ Polymer termination, Nickel barrier, Sn Plated Solder (RoHS compliant)		
Solderability		IEC-60068-2-58		
Packaging		7" Reel Horizontal Orientation, 2500 per reel		
General Electrical Specification				
Rated Voltage		1000Vdc		
Nominal Capacitance Value		2.2nF		
Capacitance Tolerance		±10%		
Tangent of Loss Angle (Tan δ)		≤0.025		
Capacitance and Tan δ Test Conditions		1.0Vrms @ 1kHz		
Voltage Proof		1200Vdc		
(Voltage applied for 5 secs max. @ 50mA max. charge current)		.200140		
Min Insulation Resistance (IR)		100.00GOhm @ 100Vdc		
Dielectric Classification		X7R (2R1) to AEC-Q200		
Rated Temperature Range		-55°C / +125°C		
Maximum Capacitance Change over Temperature Range		No DC Voltage ±15%		
		Rated DC Voltage -		
Climatic Category (IEC)		55/125/56		
Ageing Characteristic		<2% per decade		
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Multilayer Ceramic Chip Capacitor

Description: 1206 1000V 2.2nF ±10% X7R (2R1) to AEC -Q200				
Environmental				
RoHS Compliant to 2011/65/EC as amended by 2015/863/EU Compliant				
191 compliant				
No exposure risk				
Board Layout				
A 1.00mm 0.071				
Packaging				
Product identifying label Plastic carrier tape Top tape 8 or 12mm 178mm (7") or nominal 330mm (13") dia. reel				
dering				
Reflow solder in accordance with IPC-A-610. Recommended reflow profile as laid down in IPC/JEDEC J-STD-020. Wave soldering is also possible, but care must be taken for case sizes 1210 and larger and component thickness >1.0mm. Trials are encouraged. Hand soldering is not recommended and can lead to component damage through thermal shock. PdAg terminations are primarily intended for conductive epoxy				
Time				
Application notes with mounting and handling guidance are available on request. Compex DLI Johanson MFG Novacap Syfer Voltronics				
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