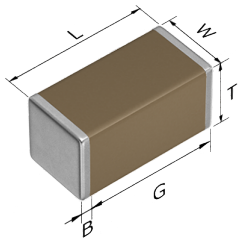
Multilayer Ceramic Chip Capacitors

C3216X7R1E106M160AE

Product Status	Production (NRND) Recommended Alternate Part No. : C3216X7R1E106K160AE (Interchangeability is not guaranteed.)
TDK Item Description	C3216X7R1E106MT***S
Applications	Commercial Grade Please refer to Part No. CGA5L1X7R1E106M160AE for Automotive use.
Feature	SoftSoft Termination
Series	C3216 [EIA 1206]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Size	
Length(L)	3.20mm +0.40,-0.20mm
Width(W)	1.60mm +0.30,-0.20mm
Thickness(T)	1.60mm +0.30,-0.20mm
Terminal Width(B)	0.20mm Min.
Terminal Spacing(G)	1.00mm Min.
Recommended Land Pattern (PA)	2.10mm to 2.50mm(Flow Soldering) 2.00mm to 2.40mm(Reflow Soldering)
Recommended Land Pattern (PB)	1.10mm to 1.30mm(Flow Soldering) 1.00mm to 1.20mm(Reflow Soldering)
Recommended Land Pattern (PC)	1.00mm to 1.30mm(Flow Soldering) 1.10mm to 1.60mm(Reflow Soldering)

Electrical Characteristics	
Capacitance	10µF ±20%
Rated Voltage	25VDC
Temperature Characteristic	X7R(±15%)
Dissipation Factor (Max.)	7.5%
Insulation Resistance (Min.)	50MΩ

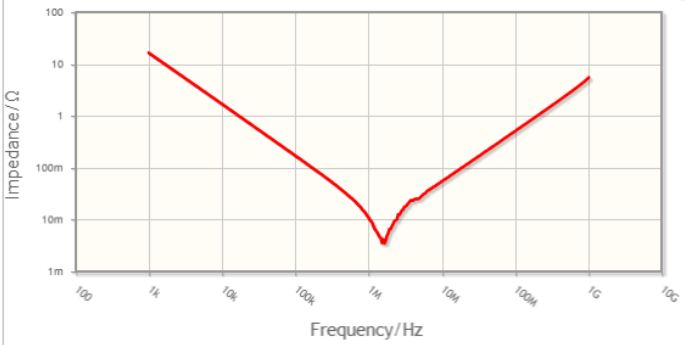
Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Wave (Flow) Reflow
AEC-Q200	NO
Packing	Embossed (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

! Images are for reference only and show exemplary products.
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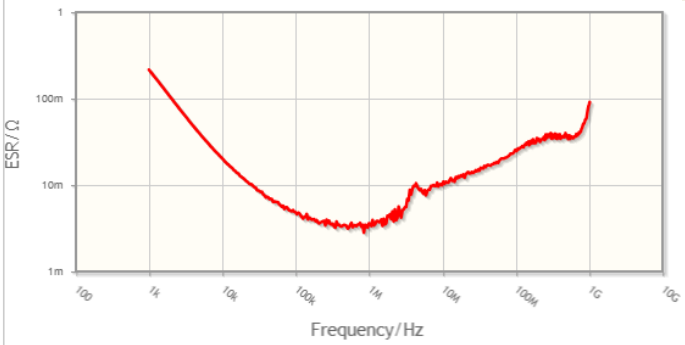
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



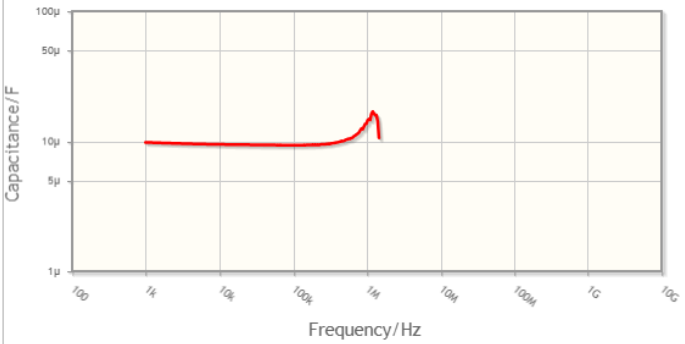
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ESR



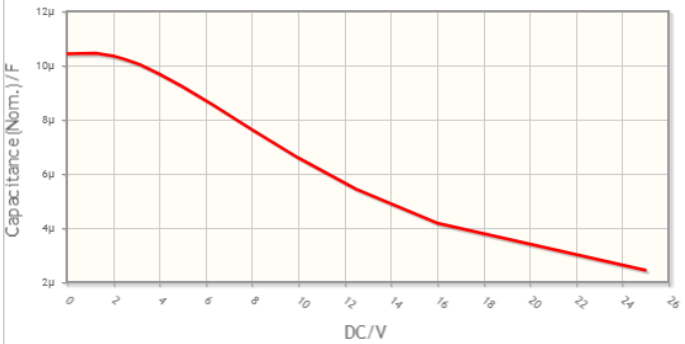
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Capacitance



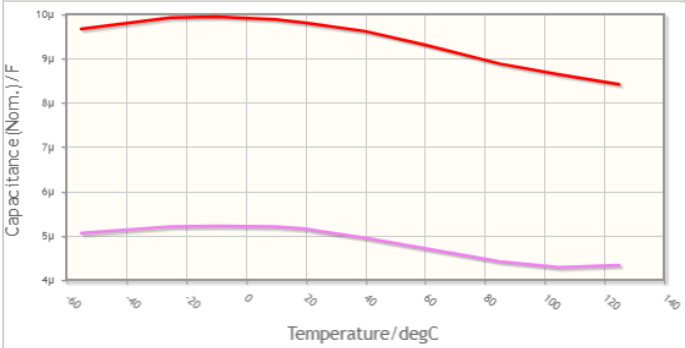
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DC Bias Characteristic



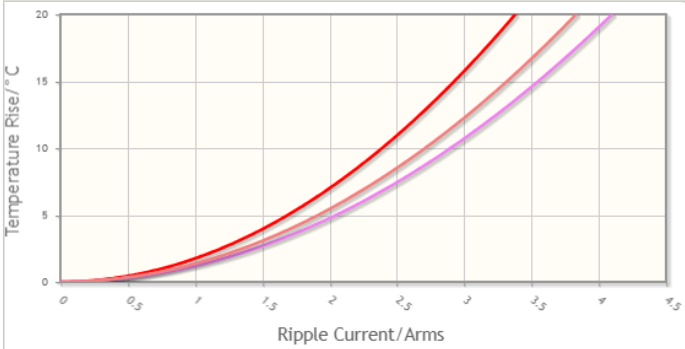
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Temperature Characteristic



C3216X7R1E106M160AE(No Bias) C3216X7R1E106M160AE(DC Bias = 12.5V)

Ripple Temperature Rising



C3216X7R1E106M160AE(100kHz) C3216X7R1E106M160AE(500kHz) C3216X7R1E106M160AE(1MHz)

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Associated Images

Land Pattern (Terminal Connection)



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