

Multilayer Ceramic Chip Capacitors

CGA5L1X8L1E106K160AE New Product



TDK item description ? CGA5L1X8L1E106KT***S

Applications Automotive Grade

Feature

- 150°C High Temperature Application
- Soft Soft Termination
- AEC-Q200 AEC-Q200

Series CGA5(3216) [EIA 1206]

Status Production



Images are for reference only and show exemplary products.

PDF file of this page

Contact

Documents

- Catalog Update
- Specification
- RoHS Certificate
- SVHC/REACH Certificate Update
- Selection Guide for Automotive MLCC New
- [Promotion Video] Same Footprint with Crack Countermeasures Recommended
- [Solution Guide] Solder Crack Countermeasures
- [Solution Guide] Flex Crack Countermeasures
- Sample Kits
- Characterization Sheet

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

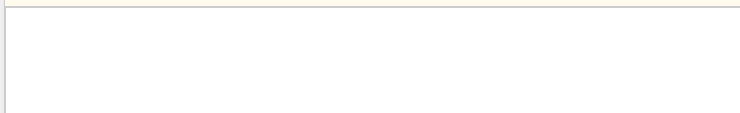
Capacitance	10μF ±10%
Rated Voltage	25VDC
Temperature Characteristic ?	X8L(+15,-40%)
Dissipation Factor (Max.)	5%
Insulation Resistance (Min.)	50MΩ

Other

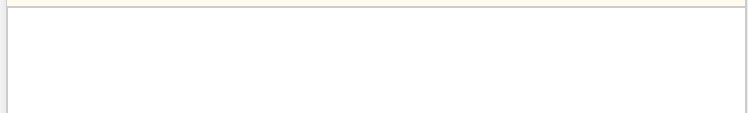
Soldering Method	Wave (Flow) Reflow
AEC-Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	2000pcs

Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)

Impedance



ESR



CGA5L1X8L1E106K160AE

Change settings

CGA5L1X8L1E106K160AE

Change settings

Capacitance

CGA5L1X8L1E106K160AE

Change settings

DC Bias Characteristic

CGA5L1X8L1E106K160AE

Change settings

Temperature Characteristic

CGA5L1X8L1E106K160AE(No Bias) CGA5L1X8L1E106K160AE(DC Bias = 12.5V)

Change settings

Ripple Temperature Rising

CGA5L1X8L1E106K160AE(100 kHz) CGA5L1X8L1E106K160AE(500 kHz) CGA5L1X8L1E106K160AE(1 MHz)

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