

# Multilayer Ceramic Chip Capacitors

## CGA5L1X8L1E106K160AE New Product



**TDK item description** CGA5L1X8L1E106KT\*\*\*S

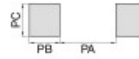
**Applications** Automotive Grade

**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

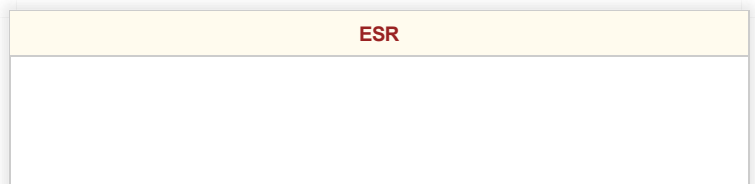
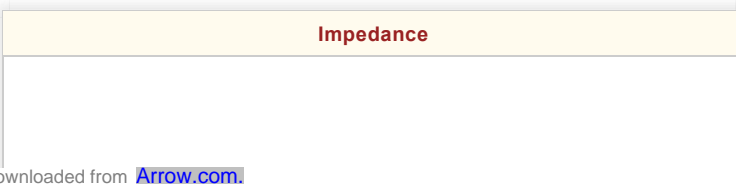
- Documents**
- Catalog Update
  - Specification
  - RoHS Certificate
  - SVHC/REACH Certificate Update
  - Selection Guide for Automotive MLCC New
  - [Promotion Video] Same Footprint with Crack Countermeasures Recommended
  - [Solution Guide] Solder Crack Countermeasures
  - [Solution Guide] Flex Crack 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.)



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)

Change settings



[Selection Guides](#) [Search by Part No.](#) [Search by Characteristics](#) [Distributor Inventory Check](#) [Cross Reference](#)

#### Products

- Capacitors >
- Inductors (Coils) >
- EMC Components >
- RF Components and Modules >
- Voltage / Current / Temperature Protection Devices >

- Ceramic Switching / Heating, Piezo Components, Buzzers and Microphones >
- Transformers >
- Ferrites and Accessories >
- Noise Suppressing / Magnetic Sheet >
- Anechoic Chambers and Radio Wave Absorbers >
- Power Supplies >
- Magnets >
- Flash Storages >
- Wireless Power Transfer >
- FA Systems >
- Transparent Conductive Film >
- Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB) >
- Solar Cells >
- Biosensor >
- Application Specific IC (ASIC) Development and Supply >

## Application Guides

## Technical Support

## Tech Library

## Environment

## Contact

## News

## Home

## About TDK

## TDK Worldwide

[Terms of Use](#) [Privacy Policy](#) [Cookie Policy](#) [Counterfeit Products](#)

Copyright(c) 2019 TDK Corporation. All rights reserved.  
TDK logo is a trademark or registered trademark of TDK Corporation.

