

Multilayer Ceramic Chip Capacitors

Product Top Page

Search by Part No.

Search by Characteristics

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CGA5L1C0G2A683J160AC



TDK item description ? CGA5L1C0G2A683JT****

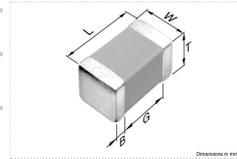
Applications Automotive Grade

Feature Mid Mid Voltage (100 to 630V)

AEC-Q200 AEC-Q200

Series CGA5(3216) [EIA 1206]

Status Production



Images are for reference only and show exemplary products.

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Documents

- Catalog
- Specification
- RoHS Certificate
- SVHC/REACH Certificate
- Characterization Sheet
- Promotion Video
- Sample Kits

| Size | |
|-------------------------------|--|
| Length(L) | 3.20mm ±0.20mm |
| Width(W) | 1.60mm ±0.20mm |
| Thickness(T) | 1.60mm ±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 | 68nF ±5% |
| Rated Voltage | 100VDC |
| Temperature Characteristic ? | C0G(0±30ppm/°C) |
| Q (Min.) | 1000 |
| Insulation Resistance (Min.) | 7352MΩ |

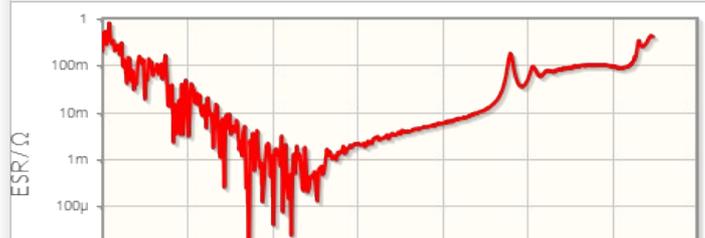
| Other | |
|------------------|--------------------------------------|
| Soldering Method | Wave (Flow) Reflow |
| AEC-Q200 | Yes |
| Packing | Blister (Plastic)Taping [180mm Reel] |
| Package Quantity | 2000pcs |

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

Impedance



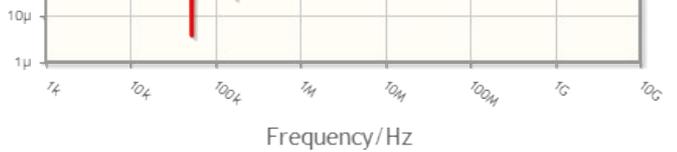
ESR





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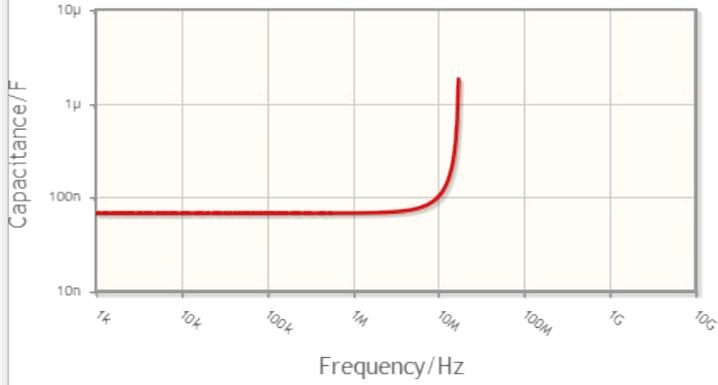
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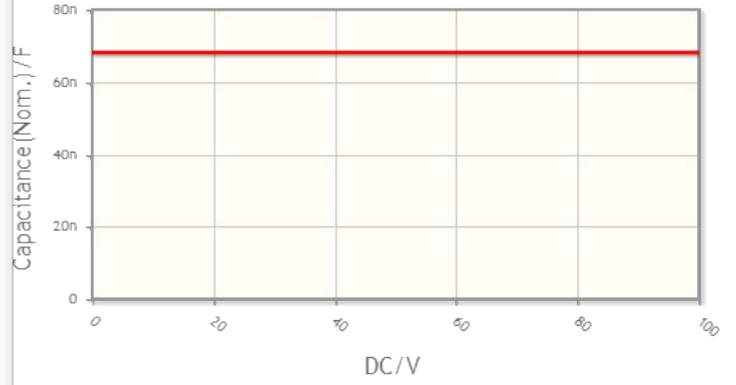
Capacitance



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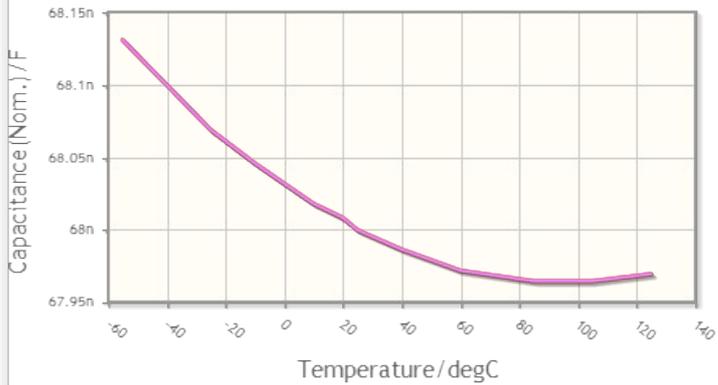
DC Bias Characteristic



CGA5L1C0G2A683J160AC

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Temperature Characteristic



CGA5L1C0G2A683J160AC(No Bias) CGA5L1C0G2A683J160AC(DC Bias s = 50V)

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Ripple Temperature Rising

no data available

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