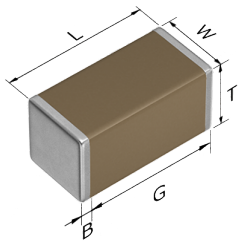
Creation Date : July 14, 2019 (GMT)

# Multilayer Ceramic Chip Capacitors

## CGA5L3X7R2E473K160AA

RoHS | REACH SVHC-Free | Halogen Free | Lead Free

| | |
|---|---|
| **TDK item description** | CGA5L3X7R2E473KT**** |
| **Applications** | Automotive Grade |
| **Feature** | Mid Mid Voltage (100 to 630V)<br>AEC-Q200 AEC-Q200 |
| **Series** | CGA5(3216) [EIA 1206] |
| **Status** | Production |




| 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)<br>2.00mm to 2.40mm(Reflow Soldering) |
| Recommended Land Pattern (PB) | 1.10mm to 1.30mm(Flow Soldering)<br>1.00mm to 1.20mm(Reflow Soldering) |
| Recommended Land Pattern (PC) | 1.00mm to 1.30mm(Flow Soldering)<br>1.10mm to 1.60mm(Reflow Soldering) |

| Electrical Characteristics | |
|---|---|
| Capacitance | 47nF ±10% |
| Rated Voltage | 250VDC |
| Temperature Characteristic | X7R(±15%) |
| Dissipation Factor (Max.) | 3% |
| Insulation Resistance (Min.) | 10000MΩ |

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

! Images are for reference only and show exemplary products.
! This PDF document was created based on the data listed on the TDK Corporation website.
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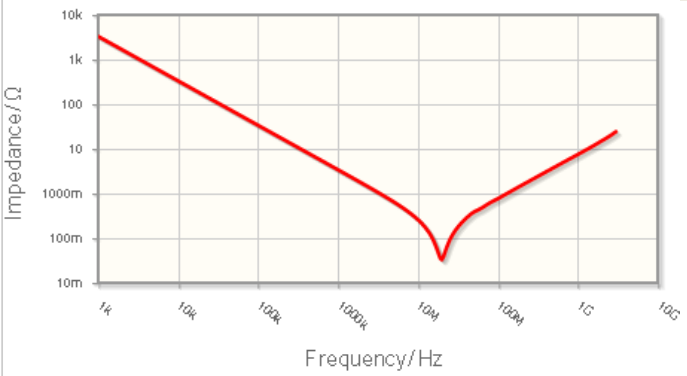
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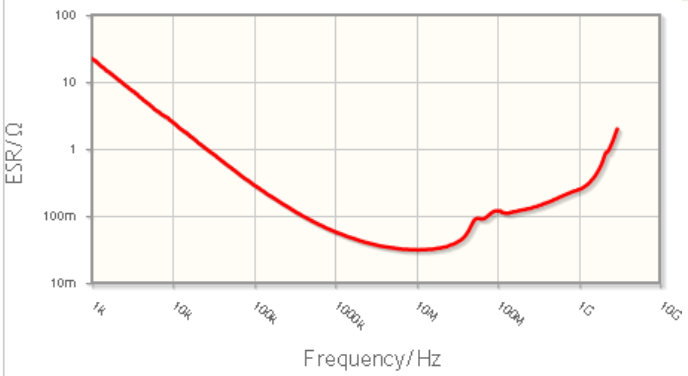
# Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

## Impedance



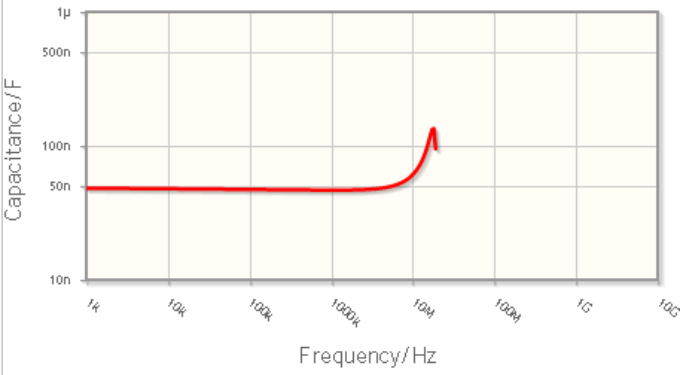

CGA5L3X7R2E473K160AA

## ESR



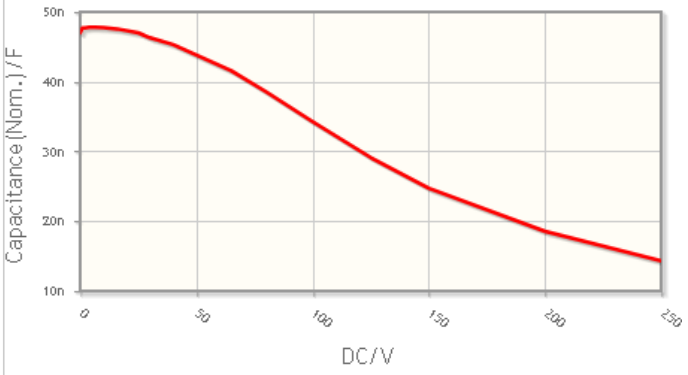

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## Capacitance



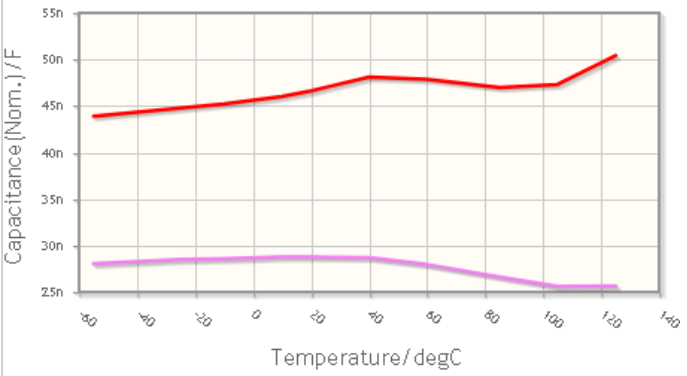

CGA5L3X7R2E473K160AA

## DC Bias Characteristic




CGA5L3X7R2E473K160AA

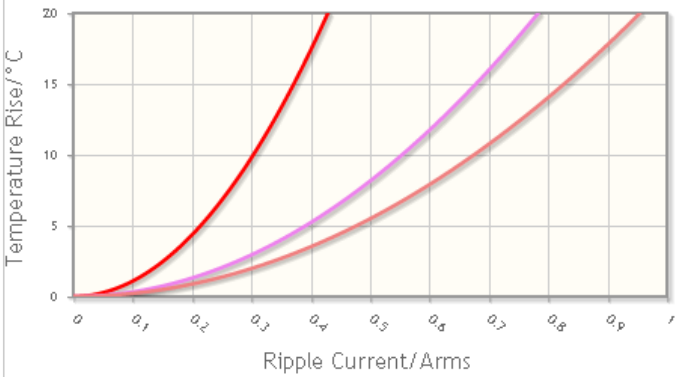
## Temperature Characteristic




CGA5L3X7R2E473K160AA(No Bias)

CGA5L3X7R2E473K160AA(DC Bias = 125V )

## Ripple Temperature Rising




CGA5L3X7R2E473K160AA(100kHz) CGA5L3X7R2E473K160AA(500kHz) CGA5L3X7R2E473K160AA(1MHz)

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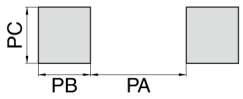
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CGA5L3X7R2E473K160AA

RoHS REACH SVHC-Free Halogen Free Lead Free

## Associated Images

Land Pattern (Terminal Connection)




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## TDK:

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