

C1608X5R1E104KT

Multilayer Ceramic Chip Capacitors - General Purpose

Category : **Ceramic Capacitors**

Sub Category : **Fixed Ceramic Capacitors**

TDK Series Name : **C Series**

Application :

Electronics equipment, Mobile communications equipment, Office automation equipment, Test and measurement equipment, Hybrid ICs, Decoupling, Smoothing, Timing, Filtering, Charge pump, etc.

Function :

It has no polarity. High reliability is guaranteed. It can be adapted for various circuit such as transmission, amplification and feed through.

Description :

Small Size General Capacitance Multilayer Ceramic Chip Capacitor. It has no polarity. High reliability is guaranteed.

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Property Name

Property Description

Product Lifecycle Stage

Production

Part Number Replacement

No Data Available.

Lead (Pb) Free

Yes

Surface Mount

Yes

EIA Size Code

0603

Size Code

1608

Body Length (L)	Min 1.5 mm
Body Length (L)	Nom 1.6 mm
Body Length (L)	Max 1.7 mm
Body Breadth (W)	Min 0.7 mm
Body Breadth (W)	Nom 0.8 mm
Body Breadth (W)	Max 0.9 mm
Body Height (T)	Min 0.7 mm
Body Height (T)	Nom 0.8 mm
Body Height (T)	Max 0.9 mm
Terminal Width (B)	Min 0.2 mm
Terminal Spacing (G)	Min 0.5 mm
Temperature Characteristics	X5R
Temperature Characteristic	Min -15 % Max 15 %
Category Temperature Range	Min -55 C Max 85 C
Rated Voltage Code	1E
Rated Voltage	Max 25 V
Rated Voltage Classification	DC
Withstanding Voltage	Nom 62.5 V
Withstanding Voltage Class	DC
Rated Capacitance	Nom 0.1 μ F
Capacitance Tolerance Code	K
Capacitance Tolerance (Value)	Min <i>No Data Available.</i> Max <i>No Data Available.</i>
Capacitance Tolerance (%)	Min -10 % Max 10 %
Insulation Resistance	Min 5000 MOhm

Q	Min <i>No Data Available.</i>
Dissipation Factor	Max 3 %
CAP/DF/Q Measurement Conditions	1.0±0.2Vrms; 1kHz ± 10%
Soldering Method	Flow, Reflow, Manual
Storage Temperature Range	Min 5 C Max 40 C
Packaging	Punched (Paper)Taping [180mm Reel]
Minimum Package Qty	Nom 4000 Pcs
Minimum Order Qty	Nom 4000 Pcs
Return Status	STD

Disclaimer: This information is to be used for reference purposes only and is subject to change by TDK without notice. It reflects an overview of the product characteristics/performance for the particular part number. For product specification information, please refer to TDK's general product specification. Please note that this standard part is not designed or warranted to meet any specifications of any intermediate or end user different from or in addition to the specifications set forth in TDK's general product specification. Note also that this standard part has not been specially designed or manufactured for, nor is it intended or warranted for use in , or permitted to be resold for, specialized applications such as aviation, medical, and/or governmental/military applications (collectively, "Excluded Applications").