

Ceramic Capacitors

Fixed Ceramic Capacitors

Part Number : **C0603C0G1E0R9BTQ**

Product Name : **Multilayer Ceramic Chip Capacitors - High Q Factor**

 [View Datasheet](#)

TDK Series Name : **C Series**

Application :

High - frequency applications, PA modules, Cellular communication, Bluetooth, Cable/satellite TV, GPS/satellite radio, Filter networks/matching networks, RF amplifiers/Low noise amplifiers, VCOs, TCXOs, DC blocking circuits, 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 :

Higher Q Factor Multilayer Ceramic Chip Capacitor. It has no polarity. High reliability is guaranteed.

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Application	Catalog	SEAT	CCV	TVCL	Tech Notes
Property Name		Property Description			
Product Lifecycle Stage		Production			
Part Number Replacement			<i>No Data Available.</i>		
Lead (Pb) Free		Yes			
Surface Mount		Yes			
EIA Size Code		0201			
Size Code		0603			
Body Length (L)		Min 0.57 mm			
Body Length (L)		Nom 0.6 mm			
Body Length (L)		Max 0.63 mm			
Body Breadth (W)		Min 0.27 mm			
Body Breadth (W)		Nom 0.3 mm			
Body Breadth (W)		Max 0.33 mm			
Body Height (T)		Min 0.27 mm			
Body Height (T)		Nom 0.3 mm			
Body Height (T)		Max 0.33 mm			
Terminal Width (B)		Min 0.1 mm			
Terminal Spacing (G)		Min 0.2 mm			
Temperature Characteristics		C0G			
Temperature Coefficient		Min -30 ppm/C			
		Max 30 ppm/C			
Category Temperature Range		Min <i>No Data Available.</i>			
		Max <i>No Data Available.</i>			
Rated Voltage Code		1E			
Rated Voltage		Max 25 V			
Rated Voltage Classification		DC			
Withstanding Voltage		Nom 75 V			
Withstanding Voltage Class		DC			
Rated Capacitance		Nom 0.9 pF			
Capacitance Tolerance Code		B			
Capacitance Tolerance (Value)		Min 0.8 pF			
		Max 1 pF			
Capacitance Tolerance (%)		Min <i>No Data Available.</i>			
		Max <i>No Data Available.</i>			
Q		Min 418			
Measurement Frequency of	Q	Nom 1 MHz			
Insulation Resistance		Min 12928 M Ω			
Dissipation Factor		Max <i>No Data Available.</i>			
Frequency of Dissipation Factor		Nom <i>No Data Available.</i>			
Soldering Method		Reflow, Manual			
Storage Temperature Range		Min 5 Cel			
		Max 40 Cel			
Packing		Punched (Paper)Taping [180mm Reel]			
Minimum Package Qty		Nom 15000 Pcs			
Minimum Order Qty		Nom 15000 Pcs			
Return Status		NCNR			

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").