

Product Name

Series

Type

Part Number

Multilayer Inductor for Ultra High Frequency Range

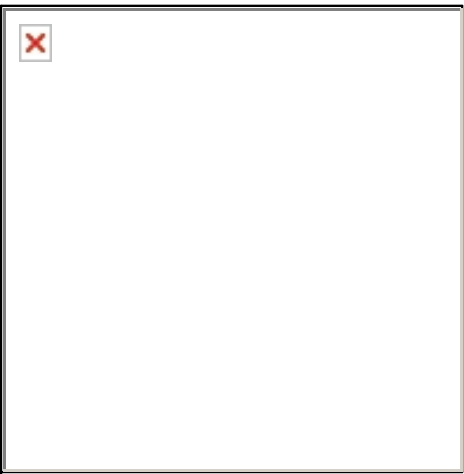
MLG Series

0603Q Type

MLG0603Q6N8JT000

Product Lifecycle Stage

PROD



Specification			
Mounting Method Flag		Yes	
Processing		multilayer type	
Shape		SMD	
Size Code		0603	
Body Length(L)	Nom	0.6	mm
Body Breadth(W)	Nom	0.3	mm
Body Height(T)	Nom	0.3	mm
Rated Inductance	Nom	6.8	nH
Inductance Tolerance (%)	Min	-5	%
	Max	5	%
Test Frequency of Inductance	Nom	100	MHz
Q	Min	5	
Test Frequency of Q	Nom	100	MHz
Self Resonant Frequency	Min	4.2	GHz
	Typ	5.5	GHz
DC Resistance	Max	0.6	Ohm
DC Resistance	Nom	0.34	Ohm
Rated Current	Max	250	mA
IDC1 (Inductance Change)	Max	250	mA
IDC2 (Temperature Rise)	Max	250	mA
Temperature Rise		20 deg C	
Terminal Material		Ag(100%)/Sn plating	
Polarity Marking		Yes	
Magnetic Shielding		No	
Soldering Method		Reflow,Iron Soldering	
Measuring Equipment(Inductance)		HP4291A+16197A, or equivalent	
Measuring Equipment(Q)		HP4291A+16197A, or equivalent	
Measuring Equipment(SRF)		HP8720C, or equivalent	
Measuring Equipment(DC Resistance)		YOKOGAWA TYPE7561, or equivalent	
Category Temperature Range (Including Selftemperature Rise)	Min	-55	Cel
	Max	125	Cel
Storage Temperature Range	Min	-55	Cel
	Max	125	Cel
Weight	Nom	0.0003	g

[Caution]

Specifications which provide more details for the proper and safe use of the described product are available upon request.

[Notice of Revision and Improve]

All specifications are subject to change without notice.

Summary/Applications/Features			
Summary		Small size High Q RF coil for high frequency circuit of mobile application.	
Applications		For high-frequency applications including mobile phones, high frequency modules (PA, VCO, Rx etc.), Bluetooth and WLAN.	
Features		By the most suitable design, Q is higher than competing in a conventional product MLG0603 type. In particular, Q in more than 800MHz largely improved. Advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for high frequency. Lead free, lead free soldering, and RoHS compliant	
Packaging			
Packing		Punched (Paper)Taping [180mm Reel]	
Minumum Package Qty		Nom	1500(Pcs
Minimum Order Qty		Nom	1500(Pcs

