

Product Name

Series

Type

Part Number

Multilayer Inductor for Ultra High Frequency Range
MLG Series
1005 Type
MLG1005S3N9ST000

Product Lifecycle Stage

PROD

Specification			
Mounting Method Flag		Yes	
Processing		multilayer type	
Shape		SMD	
Size Code		1005	
Body Length(L)	Nom	1	mm
Body Breadth(W)	Nom	0.5	mm
Body Height(T)	Nom	0.5	mm
Rated Inductance		3.9 nH	
Inductance Tolerance (Value)	Min	-0.3 nH	
	Max	0.3 nH	
Test Frequency of Inductance	Nom	100 MHz	
Q	Min	8	
Test Frequency of Q	Nom	100 MHz	
Self Resonant Frequency	Min	5 GHz	
	Typ	6.5 GHz	
DC Resistance	Max	0.2 Ohm	
DC Resistance	Nom	0.11 Ohm	
Rated Current	Max	700 mA	
IDC1 (Inductance Change)	Max	700 mA	
IDC2 (Temperature Rise)	Max	700 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+16193A, or equivalent	
Measuring Equipment(Q)		HP4291A+16193A, 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	0.001 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 HighQ RF coil for high frequency circuit of mobile application.	
Applications	Cellular,VCO module,PA module,Bluetooth,Other high frequency circuit for mobile applications	
Features	Small size HighQ RF coil for high frequency circuit of mobile application. Lead free, lead free soldering, and RoHS compliant	
Packaging		
Packing		Punched (Paper)Taping [180mm Reel]
Minumum Package Qty	Nom	1000(Pcs
Minimum Order Qty	Nom	1000(Pcs

