

Product Name

Series

Type

Part Number

Multilayer Inductor for Ultra High Frequency Range

MLK Series

1005 Type

MLK1005S39NJT000

Product Lifecycle Stage

PROD

Specification			
Mounting Method Flag		Yes	
Processing		multilayer type	
Shape		SMD	
Size Code		1005	
Body Length(L)	Nom	1	m m
Body Breadth(W)	Nom	0.5	mm
Body Height(T)	Nom	0.5	mm
Rated Inductance	Nom	39	n H
Inductance Tolerance (%)	Min	-5	%
	Max	5	%
Test Frequency of Inductance	Nom	100	M Hz
Q	Min	6	
	Typ	9	
Test Frequency of Q	Nom	100	M Hz
Self Resonant Frequency	Min	2	G Hz
	Typ	3.1	G Hz
DC Resistance	Max	1	Ohm
DC Resistance	Nom	0.65	Ohm
Rated Current	Max	200	mA
IDC1 (Inductance Change)	Max	200	mA
IDC2 (Temperature Rise)	Max	200	mA
Temperature Rise		20 deg C	
Terminal Material		Ag(100%)/Sn plating	
Polarity Marking		No	
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. Pb free and correspond to Pb free soldering.	
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. High Self Resonance Frequency (SRF). No polarity. 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

