♔TDK

SMD / SMT Inductors (Coils)

MLG1005S9N1HT000

Product Status	Production
Applications	Commercial Grade
Feature	MultilayerMultilayer
	Non-Mag CoreNon-Magnetic Core (Dielectric Ceramic)
Series | Type	MLG
Brand	TDK
Environmental Compliance	RoHS REACH Halogen Free Lead Free

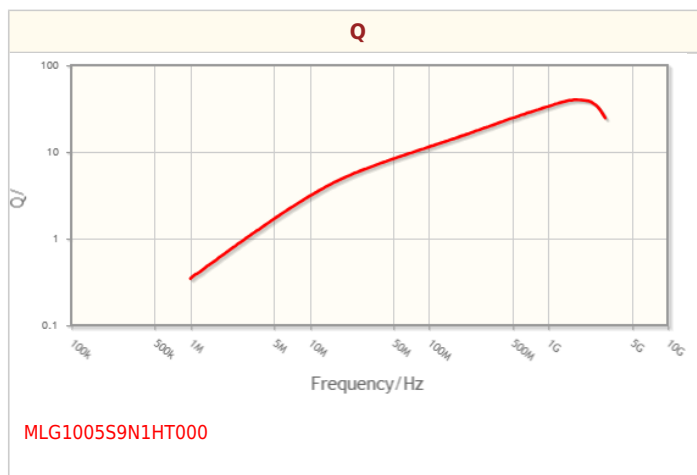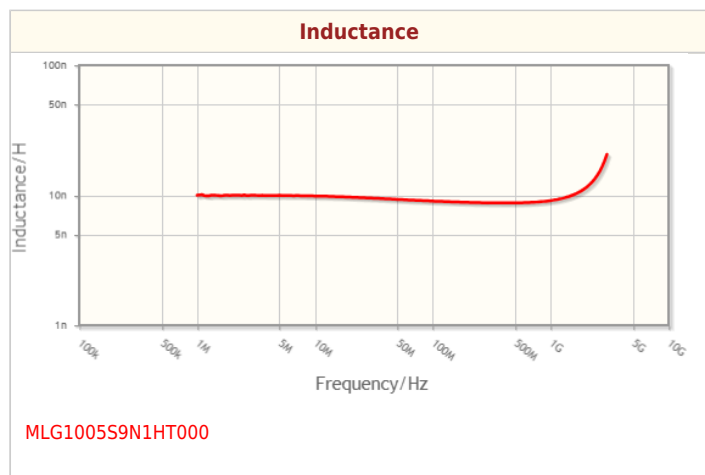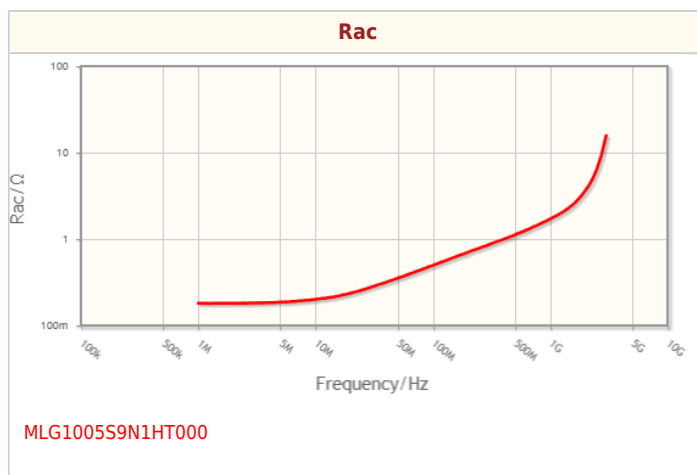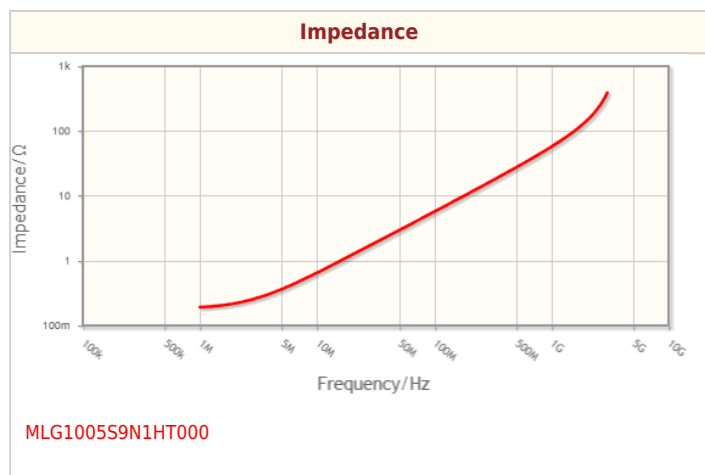| Size	
Length(L)	1.00mm ±0.05mm
Width(W)	0.50mm ±0.05mm
Thickness | Height	0.50mm ±0.05mm
Recommended Land Pattern (A)	0.50mm Nom.
Recommended Land Pattern (B)	0.40mm Nom.
Recommended Land Pattern (C)	0.50mm Nom.

Electrical Characteristics	
Inductance	9.1nH ±3% at 100MHz
Rated Current	500mA
DC Resistance [Typ.]	200mΩ
DC Resistance [Max.]	300mΩ
Self Resonant Frequency [Min.]	3GHz
Self Resonant Frequency [Typ.]	3.8GHz
Q [Min.]	8 at 100MHz
Q [Typ.]	11 at 100MHz

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow
	Iron Soldering
AEC-Q200	NO
Packing	Punched (Paper)Taping [180mm Reel, Tape width 8mm]
Package Quantity	10000pcs
Weight	0.001g

! Images are for reference only and show exemplary products.
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Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance

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Rac

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Inductance

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Q

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Associated Images

Shapes and Dimensions

0.50±0.05

0.25±0.10   0.25±0.10

1.00±0.05

0.50±0.05

Land Pattern (Terminal Connection)

C

A   B   A

Dimensions in mm

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