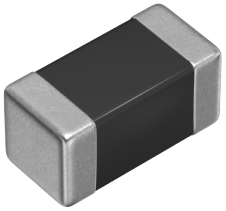
Creation Date : May 04, 2025 (GMT)

SMD / SMT Inductors (Coils)

MLF1608E5R6KTD25

RoHS | REACH | Halogen Free | Lead Free

Applications	Automotive Grade
Feature	AEC-Q200 AEC-Q200 No Directivity No Directivity Multilayer Multilayer Shield Magnetic Shield Ferrite Core Ferrite Core
Series | Type	MLF
Status	Production
Brand	TDK



Size	
Length(L)	1.60mm ±0.15mm
Width(W)	0.80mm ±0.15mm
Thickness | Height	0.80mm ±0.15mm
Recommended Land Pattern (A)	0.60mm Nom.
Recommended Land Pattern (B)	0.80mm Nom.
Recommended Land Pattern (C)	0.80mm Nom.

Electrical Characteristics	
Inductance	5.6µH ±10% at 4MHz
Rated Current (L Change) [Typ.]	
Rated Current (L Change) [Max.]	15mA
Rated Current (Temperature Rise) [Typ.]	
Rated Current (Temperature Rise) [Max.]	
DC Resistance [Typ.]	550mΩ
DC Resistance [Max.]	1.1Ω
Rated Voltage [Max.]	
Self Resonant Frequency [Min.]	45MHz
Self Resonant Frequency [Typ.]	70MHz
Q [Min.]	35 at 4MHz
Q [Typ.]	60 at 4MHz

Other	
Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow Iron Soldering
AEC-Q200	YES
Packing	Punched (Paper)Taping [180mm Reel]

! Images are for reference only and show exemplary products.
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! All specifications are subject to change without notice.

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Package Quantity	4000pcs
Weight	0.004g

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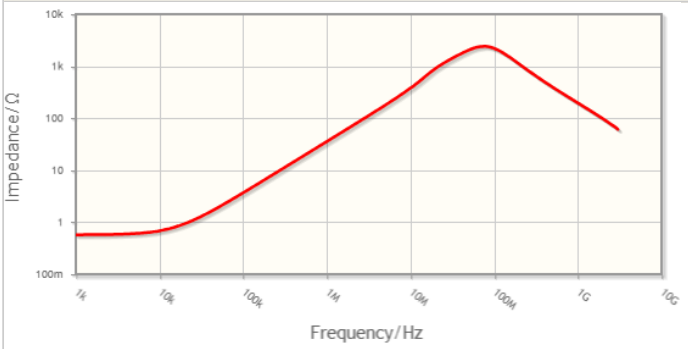
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



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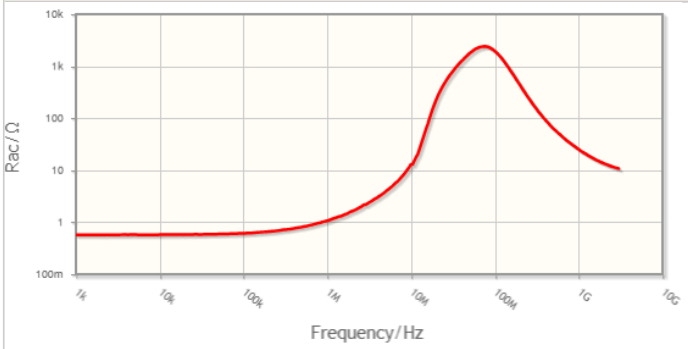
Rac



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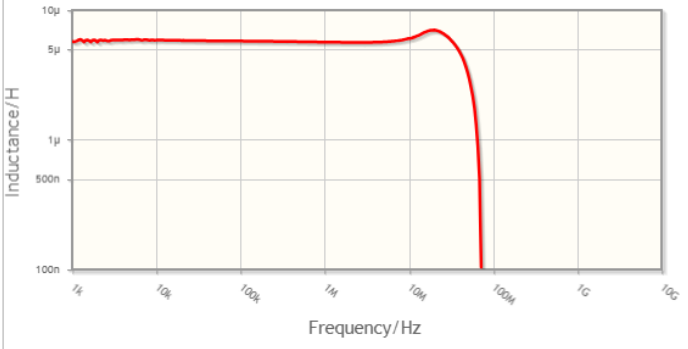
Inductance



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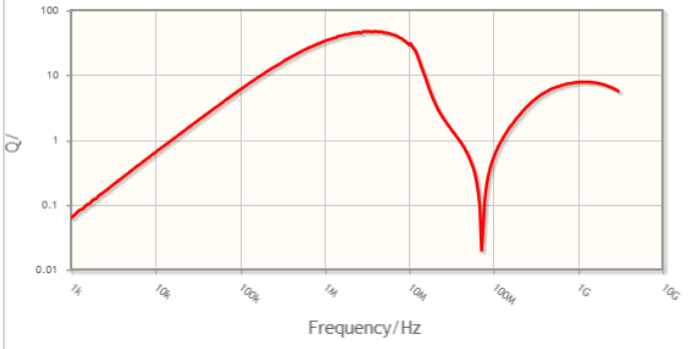
Q



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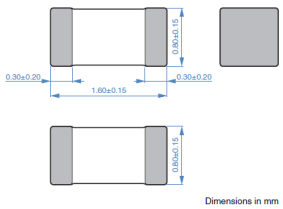
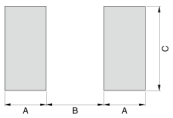
Associated Images

Shapes and Dimensions



Dimensions in mm

Land Pattern (Terminal Connection)



Dimensions in mm

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