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

[TDK Corporation](#)

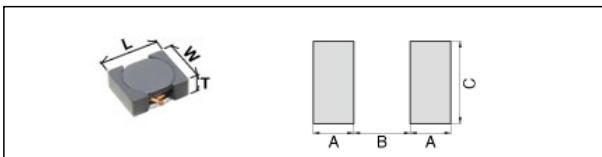
[VLF504012MT-1R5N-CA](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

VLF504012MT-1R5N-CA

Applications	 Automotive Grade
Feature	 Wire Wound
	 Magnetic Shield
	 Ferrite Core
	 AEC-Q200
Series	VLF-M Series / VLF504012MT-CA Type
Status	PROD



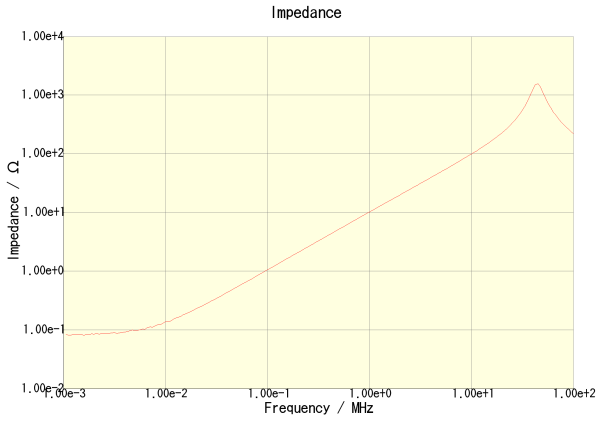
Size	
Length(L)	5.00mm +/-0.30mm
Width(W)	4.00mm +/-0.30mm
Thickness(T)	1.20mm Max.
Recommended Land Pattern (A)	1.30mm Nom.
Recommended Land Pattern (B)	1.60mm Nom.
Recommended Land Pattern (C)	2.20mm Nom.

Electrical Characteristics	
Inductance	1.5uH +/-30% at 1MHz
Rated Current (L Change) [Typ.]	3.36A (30% Down)
Rated Current (L Change) [Max.]	3.02A (30% Down)
Rated Current (Temperature Rise) [Typ.]	2.91A (40degC Rise)
DC Resistance [Nom.]	40mΩ
DC Resistance [Max.]	48mΩ

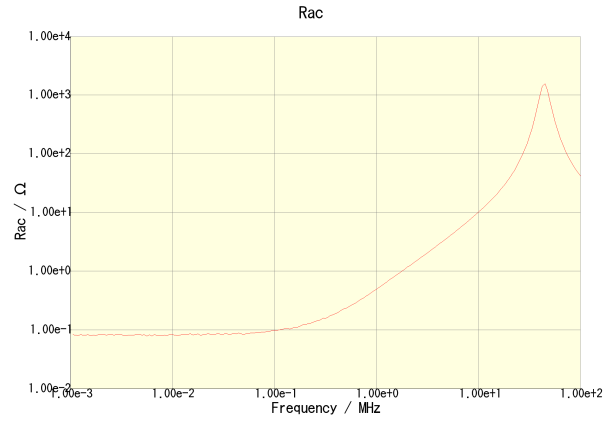
Other	
Operating Temp. Range (Including Self-Temp. Rise)	-40 to 105degC
Soldering Method	Reflow
AEC Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	1000Pcs Min.
Weight	0.089g

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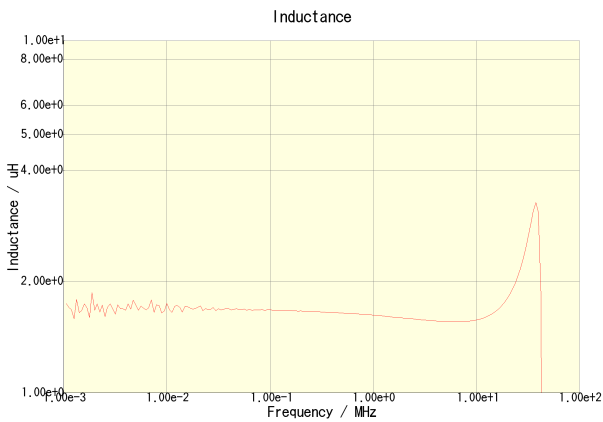
Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)



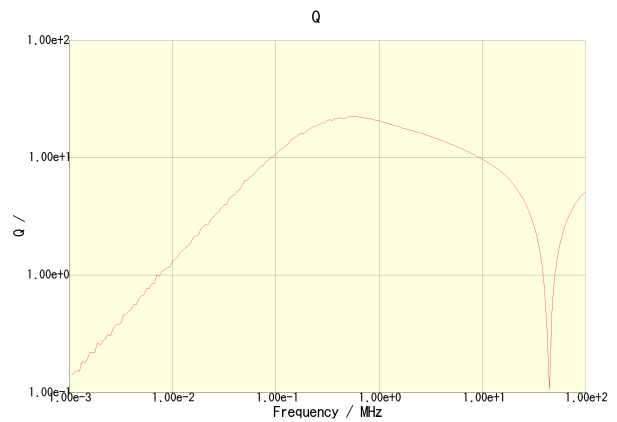
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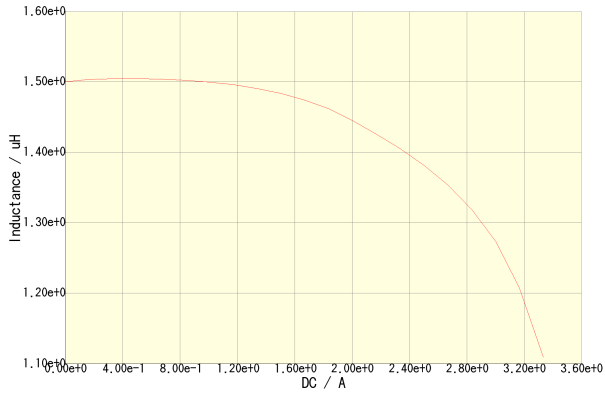


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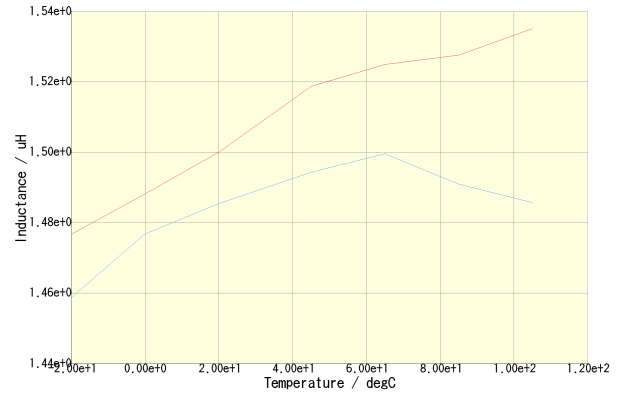
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DC Bias Characteristic



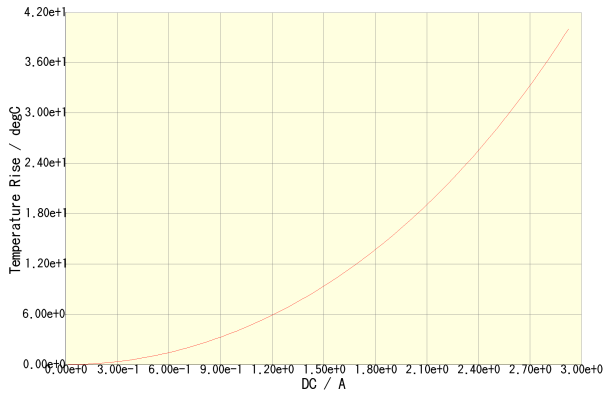
VLF504012MT-1R5N-CA(Amb. Temp. = 20degc)

Temperature Characteristic



VLF504012MT-1R5N-CA(DC = 0A) VLF504012MT-1R5N-CA(DC = 1.455A)

Temperature Rise by DC



VLF504012MT-1R5N-CA(Amb. Temp. = 20degc)