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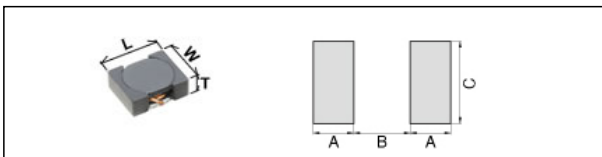
[VLF504010MT-6R8M-CA](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# VLF504010MT-6R8M-CA

Applications	 Automotive Grade
Feature	 Wire Wound
	 Magnetic Shield
	 Ferrite Core
	 AEC-Q200
Series	VLF-M Series / VLF504010MT-CA Type
Status	PROD



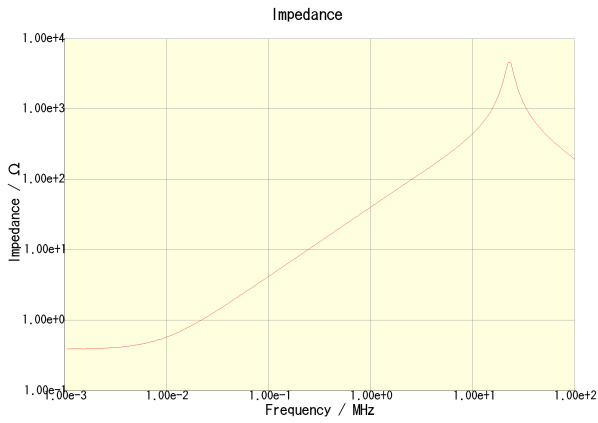
Size	
Length(L)	5.00mm +/-0.30mm
Width(W)	4.00mm +/-0.30mm
Thickness(T)	1.00mm Max.
Recommended Land Pattern (A)	1.30mm Nom.
Recommended Land Pattern (B)	1.60mm Nom.
Recommended Land Pattern (C)	2.20mm Nom.

Electrical Characteristics	
Inductance	6.8uH +/-20% at 1MHz
Rated Current (L Change) [Typ.]	1.21A (30% Down)
Rated Current (L Change) [Max.]	1.09A (30% Down)
Rated Current (Temperature Rise) [Typ.]	1.4A (40degC Rise)
DC Resistance [Nom.]	160mΩ
DC Resistance [Max.]	190mΩ

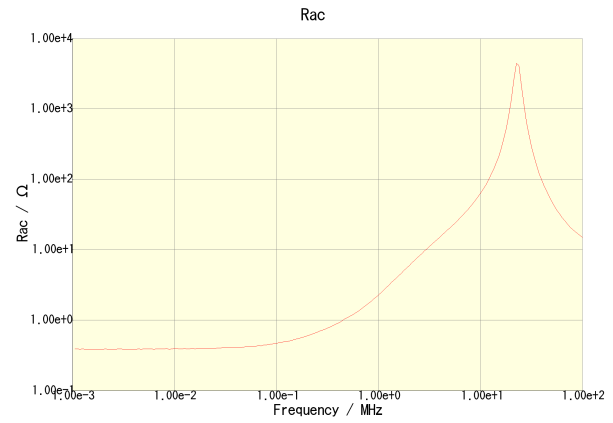
Other	
Operating Temp. Range (Including Self-Temp. Rise)	-40 to 105degC
Soldering Method	Reflow
AEC Q200	Yes
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	1000Pcs Min.
Weight	0.073g

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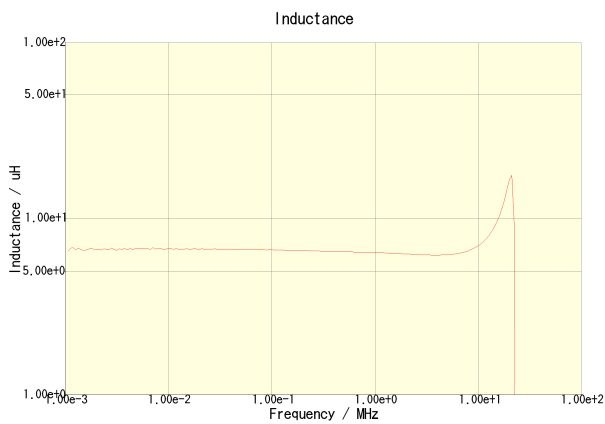
## Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)



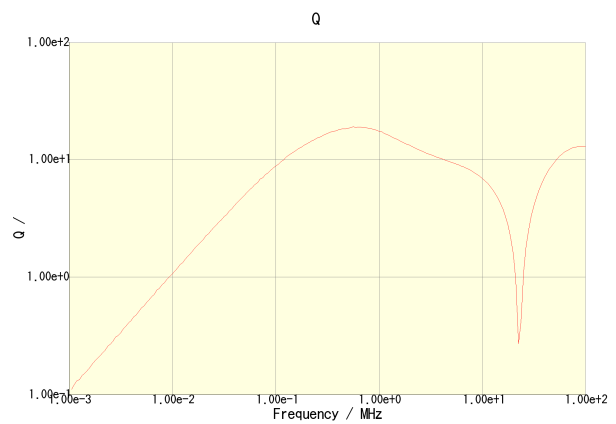
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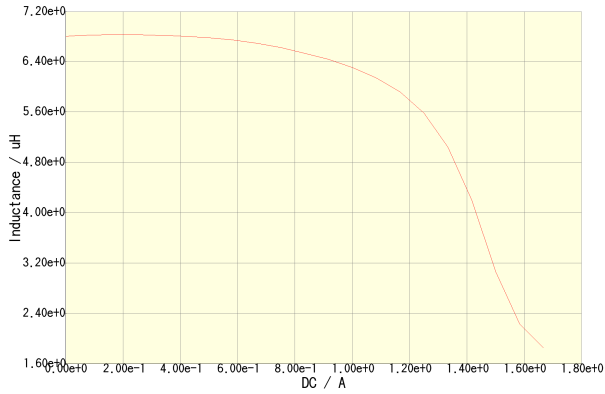


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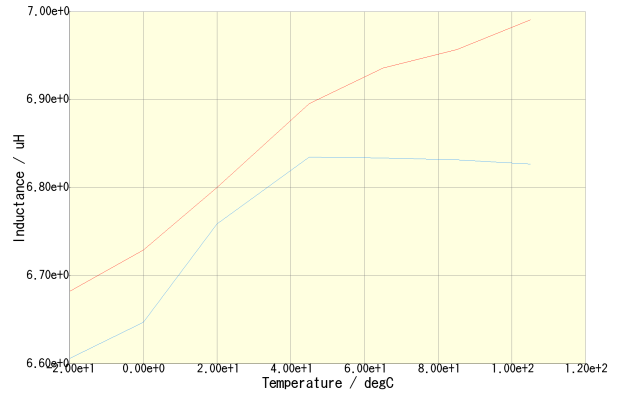
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DC Bias Characteristic



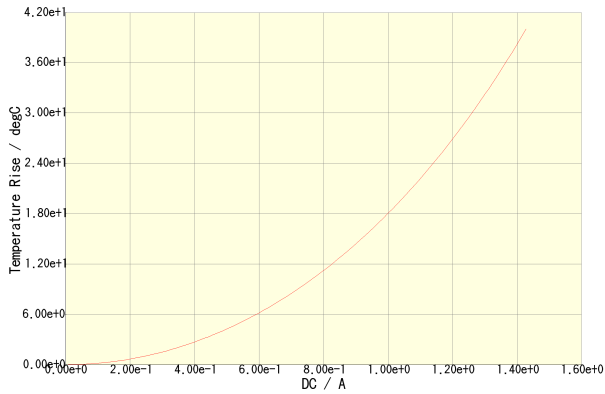
VLF504010MT-6R8M-CA(Amb. Temp. = 20degc)

Temperature Characteristic



VLF504010MT-6R8M-CA(DC = 0A) VLF504010MT-6R8M-CA(DC = 0.545A)

Temperature Rise by DC



VLF504010MT-6R8M-CA(Amb. Temp. = 20degc)