

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

TDK Corporation VLF504012MT-100M-CA

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of TDK Corporation: Excellent Integrated System Limited Datasheet of VLF504012MT-100M-CA - FIXED IND 10UH 1.3A 230 MOHM SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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VLF504012MT-100M-CA

| Applications | € | Automotive Grade |
|--------------|------------------------------------|------------------|
| Feature | Wire Wound | Wire Wound |
| | Shield | Magnetic Shield |
| | Ferrite Core | Ferrite Core |
| | AEC-Q200 | 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 | 10uH +/-20% at 1MHz | | |
| Rated Current (L Change) [Typ.] | 1.32A (30% Down) | | |
| Rated Current (L Change) [Max.] | 1.18A (30% Down) | | |
| Rated Current (Temperature Rise) [Typ.] | 1.3A (40degC Rise) | | |
| DC Resistance [Nom.] | 190mΩ | | |
| DC Resistance [Max.] | 230mΩ | | |

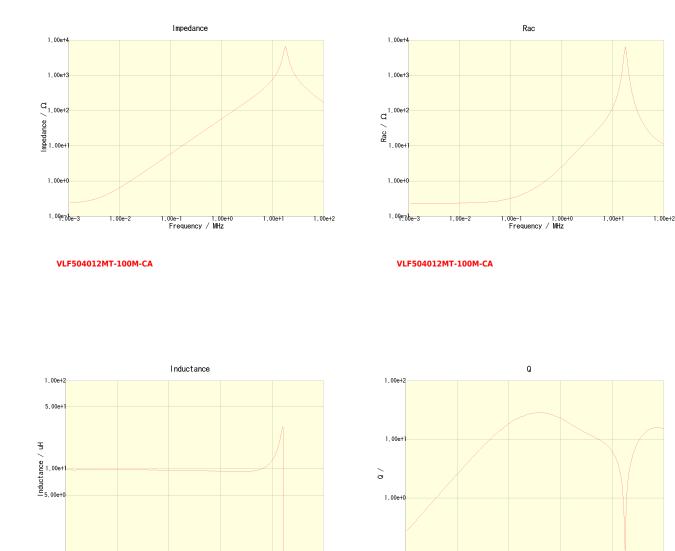
| Other | |
|---|--------------------------------------|
| Operating Temp. Range (Including Self-Temp. Rise) | -40 to 105degC |
| Soldering Method | Reflow |
| AEC Q200 | Yes |
| Packing | Blister (Plastic)Taping [180mm Reel] |
| Package Quantity | 1000Pcs Min. |
| Weight | 0.089g |



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



1.00e+

1.00e+2

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1.00e-

1.00e+00e

VLF504012MT-100M-CA

1.00e

1.00e+1

1.00e-1 1.00e+0 Frequency / MHz 1.00e+2

1.09e-obe

1.00e-1 1.00e+0 Frequency / MHz

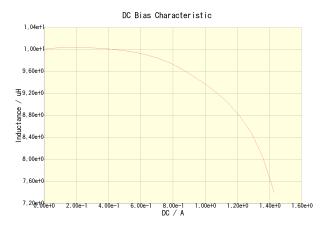
•This PDF document was created based on the data listed on the TDK Corporation website.



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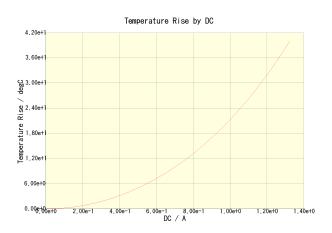
Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)





VLF504012MT-100M-CA(Amb. Temp. = 20degc)

VLF504012MT-100M-CA(DC = 0A) VLF504012MT-100M-CA(DC = 0.59A)



VLF504012MT-100M-CA(Amb. Temp. = 20degc)