

VLF302515MT-R47N-CA Datasheet



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DiGi Electronics Part Number	VLF302515MT-R47N-CA-DG
Manufacturer	TDK Corporation
Manufacturer Product Number	VLF302515MT-R47N-CA
Description	FIXED IND 470NH 4A 20 MOHM SMD
Detailed Description	470 nH Shielded Drum Core, Wirewound Inductor 4 A 20mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

VLF302515MT-R47N-CA

Series:

VLF-M-CA

Type:

Drum Core, Wirewound

Inductance:

470 nH

Current Rating (Amps):

4 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 MHz

Package / Case:

Nonstandard

Size / Dimension:

0.118" L x 0.098" W (3.00mm x 2.50mm)

Manufacturer:

TDK Corporation

Product Status:

Obsolete

Material - Core:

Ferrite

Tolerance:

±30%

Current - Saturation (Isat):

3.18A

DC Resistance (DCR):

20mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.059" (1.50mm)

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99





REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

VLF302515MT-R47N-CA

Applications		Automotive Grade
Feature		Wire Wound
		Magnetic Shield
		Ferrite Core
Series	VLF-M Series / VLF302515MT-CA Type	
Status	Production	



Size	
Length(L)	3.00mm +/-0.20mm
Width(W)	2.50mm +/-0.20mm
Thickness(T)	1.50mm Max.
Recommended Land Pattern (A)	0.90mm Nom.
Recommended Land Pattern (B)	0.80mm Nom.
Recommended Land Pattern (C)	1.45mm Nom.

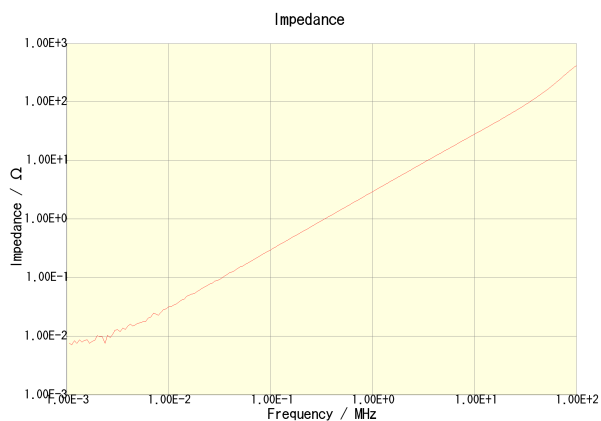
Electrical Characteristics	
Inductance	470nH +/-30% at 1MHz
Rated Current (L Change) [Typ.]	3.18A (30% Down)
Rated Current (L Change) [Max.]	2.88A (30% Down)
Rated Current (Temperature Rise) [Typ.]	4A (40degC Rise)
DC Resistance [Nom.]	17mΩ
DC Resistance [Max.]	20mΩ

Other	
Operating Temp. Range (Including Self-Temp. Rise)	-40 to 105degC
Soldering Method	Reflow
AEC Q200	No
Packing	Blister (Plastic)Taping [180mm Reel]
Package Quantity	2000Pcs Min.
Weight	0.041g

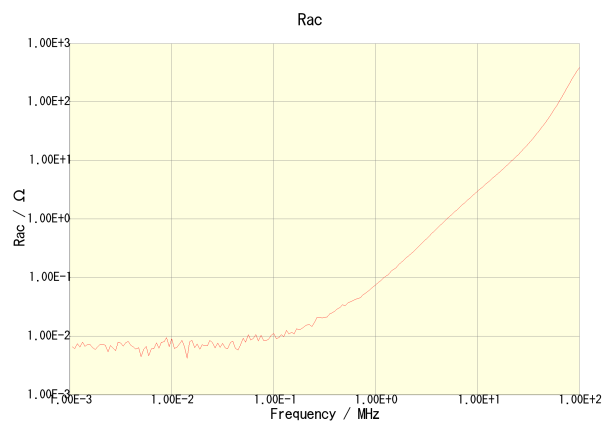
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 •All specifications are subject to change without notice.

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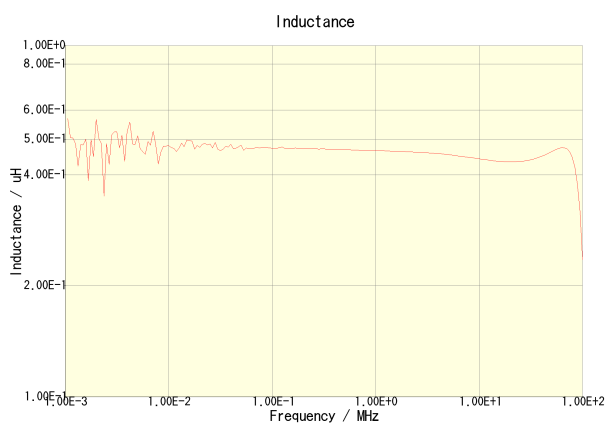
Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)



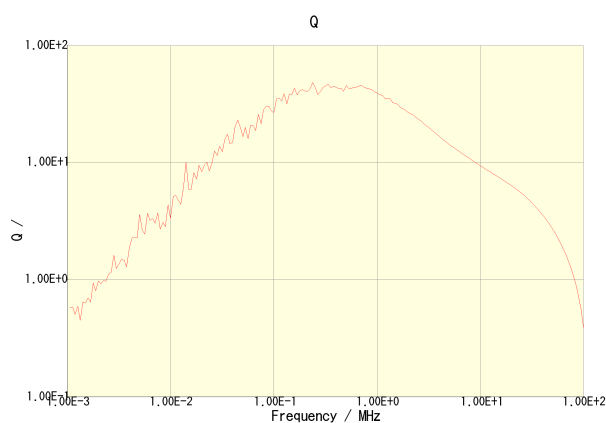
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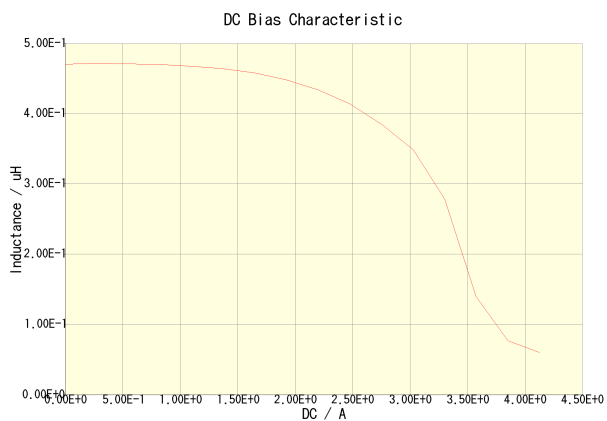


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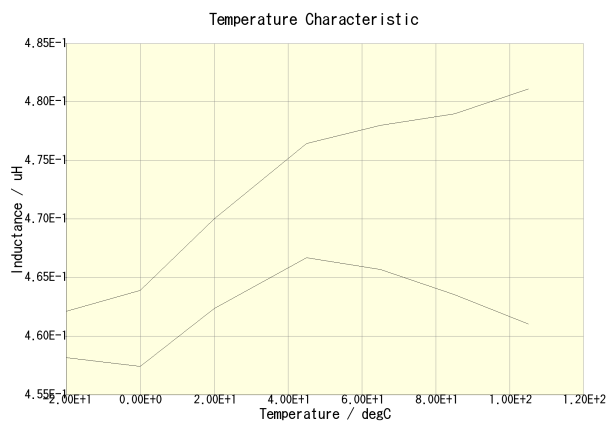
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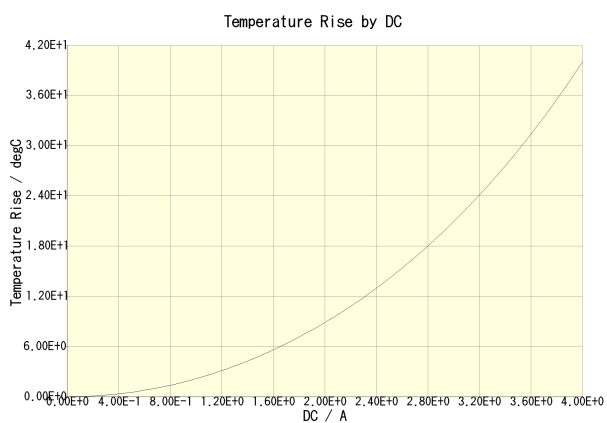
Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)



VLF302515MT-R47N-CA(Amb. Temp. = 20degc)



VLF302515MT-R47N-CA(DC = 0A) VLF302515MT-R47N-CA(DC = 1.44A)



VLF302515MT-R47N-CA(Amb. Temp. = 20degc)

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