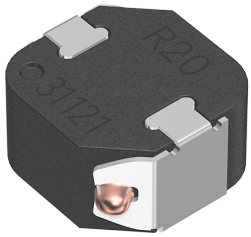
Creation Date : March 24, 2021 (GMT)

SMD / SMT Inductors (Coils)

SPM5030T-1R0M-HZ

RoHS Reach Halogen Free Pb Free

Applications	Automotive Grade
Feature	AEC-Q200 AEC-Q200 Wire Wound Wire Wound Shield Magnetic Shield Metal Core Metal Core
Series | Type	SPM
Status	Production
Brand	TDK



Size	
Length(L)	5.20mm ±0.30mm
Width(W)	5.00mm ±0.30mm
Thickness | Height	3.00mm Max.
Recommended Land Pattern (A)	1.50mm Nom.
Recommended Land Pattern (B)	2.70mm Nom.
Recommended Land Pattern (C)	2.20mm Nom.

Electrical Characteristics	
Inductance	1µH ±20% at 100kHz
Rated Current (L Change) [Typ.]	8A (20% Down)
Rated Current (L Change) [Max.]	
Rated Current (Temperature Rise) [Typ.]	10.4A (40°C Rise)
Rated Current (Temperature Rise) [Max.]	
DC Resistance [Typ.]	10.4mΩ
DC Resistance [Max.]	11.5mΩ
Self Resonant Frequency [Min.]	
Self Resonant Frequency [Typ.]	
Q [Min.]	
Q [Typ.]	

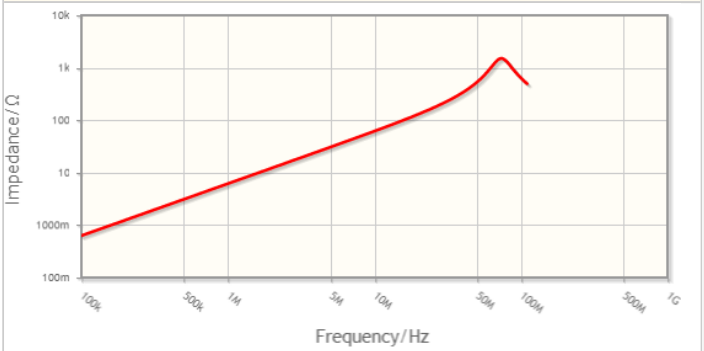
Other	
Operating Temp. Range (Including Self-Temp. Rise)	-40 to 125°C
Soldering Method	Reflow Iron Soldering
AEC-Q200	YES
Packing	Embossed (Plastic)Taping [180mm Reel, Tape width 12mm]
Package Quantity	500pcs
Weight	0.38g

! Images are for reference only and show exemplary products.
! This PDF document was created based on the data listed on the TDK Corporation website.
! All specifications are subject to change without notice.

Copyright(c) TDK Corporation. All rights reserved.

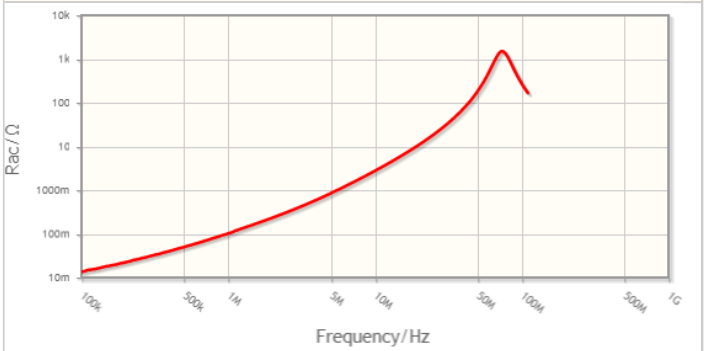
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



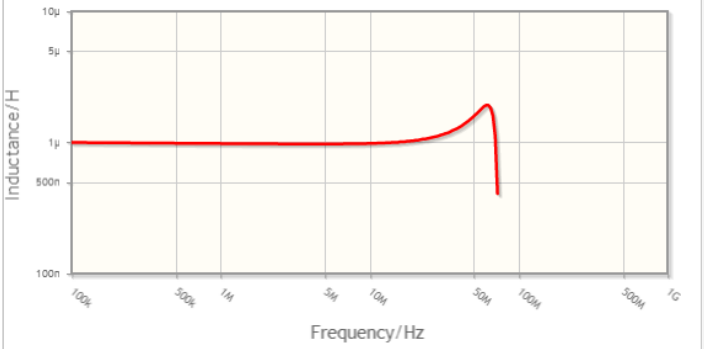
SPM5030T-1R0M-HZ

Rac



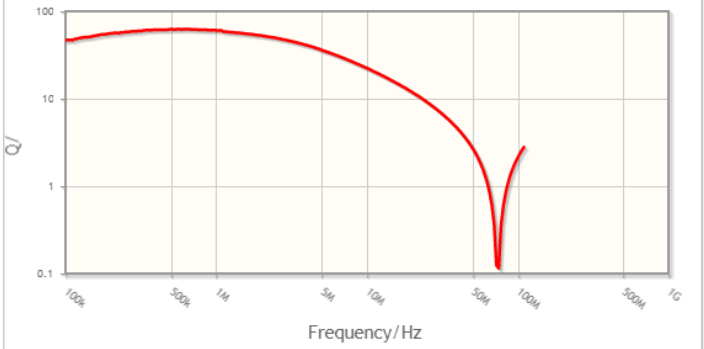
SPM5030T-1R0M-HZ

Inductance



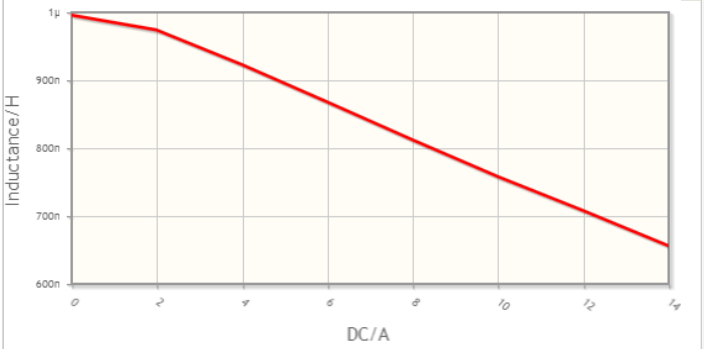
SPM5030T-1R0M-HZ

Q



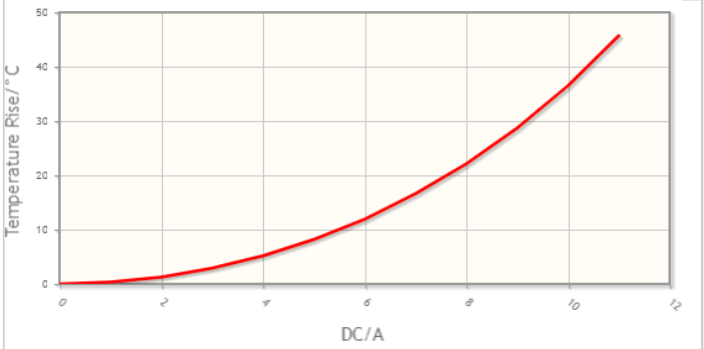
SPM5030T-1R0M-HZ

DC Bias Characteristic



SPM5030T-1R0M-HZ (Amb. Temp. = 20 °C)

Temperature Rise by DC



SPM5030T-1R0M-HZ (Amb. Temp. = 20 °C)

! Images are for reference only and show exemplary products.
! This PDF document was created based on the data listed on the TDK Corporation website.
! All specifications are subject to change without notice.

Copyright(c) TDK Corporation. All rights reserved.

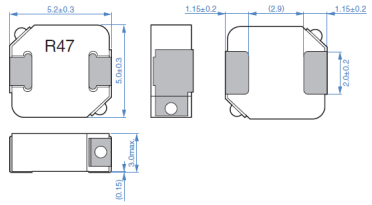
SMD / SMT Inductors (Coils)

SPM5030T-1R0M-HZ

RoHS Reach Halogen Free Pb Free

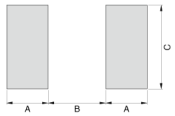
Associated Images

Shapes and Dimensions



Dimensions in mm

Land Pattern (Terminal Connection)



Dimensions in mm

! Images are for reference only and show exemplary products.
! This PDF document was created based on the data listed on the TDK Corporation website.
! All specifications are subject to change without notice.

Copyright(c) TDK Corporation. All rights reserved.