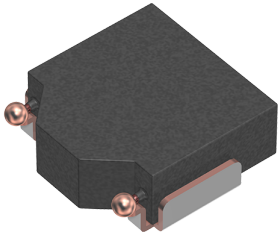


SPM3012T-1R0M



|               |                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------|
| Applications  | Commercial Grade                                                                                          |
| Feature       | Wire Wound                                                                                                |
|               | Magnetic Shield                                                                                           |
|               | Metal Core                                                                                                |
| Series   Type | SPM                                                                                                       |
| Status        | Obsolete                                                                                                  |
|               | Recommended Alternate Part No. : <a href="#">SPM3012T-1R0M-LR</a> (Interchangeability is not guaranteed.) |
|               | Discontinue Issue Date : Jun.3, 2022                                                                      |
|               | Last Purchase Order Date : Sep.30, 2023                                                                   |
|               | Last Shipment Date : Mar.31, 2024                                                                         |
| Brand         | TDK                                                                                                       |



| Size                         |                |
|------------------------------|----------------|
| Length(L)                    | 3.20mm ±0.10mm |
| Width(W)                     | 3.00mm ±0.10mm |
| Thickness   Height           | 1.20mm Max.    |
| Recommended Land Pattern (A) | 1.10mm Nom.    |
| Recommended Land Pattern (B) | 1.50mm Nom.    |
| Recommended Land Pattern (C) | 1.80mm Nom.    |

| Electrical Characteristics              |                    |
|-----------------------------------------|--------------------|
| Inductance                              | 1μH ±20% at 100kHz |
| Rated Current (L Change) [Typ.]         | 4.5A (30% Down)    |
| Rated Current (L Change) [Max.]         | 3.4A (30% Down)    |
| Rated Current (Temperature Rise) [Typ.] | 2.8A (40°C Rise)   |
| Rated Current (Temperature Rise) [Max.] |                    |
| DC Resistance [Typ.]                    | 57mΩ               |
| DC Resistance [Max.]                    | 62.7mΩ             |
| Rated Voltage [Max.]                    |                    |
| Self Resonant Frequency [Min.]          |                    |
| Self Resonant Frequency [Typ.]          |                    |
| Q [Min.]                                |                    |
| Q [Typ.]                                |                    |

| Other                 |                                          |
|-----------------------|------------------------------------------|
| Operating Temp. Range | -40 to 125°C (Including Self-Temp. Rise) |

! 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.

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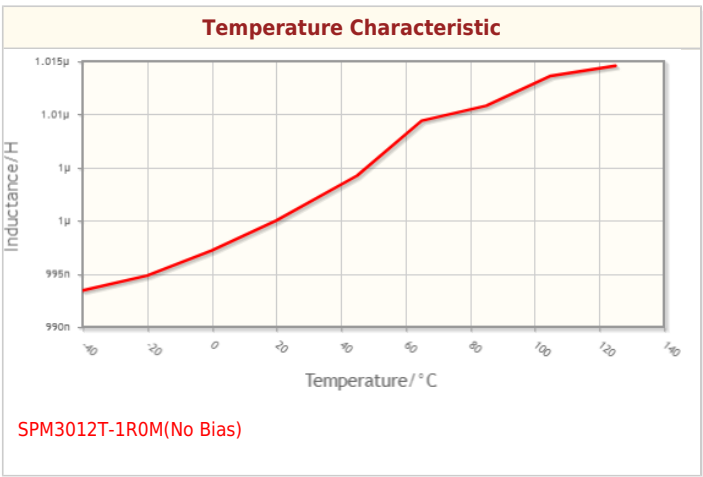
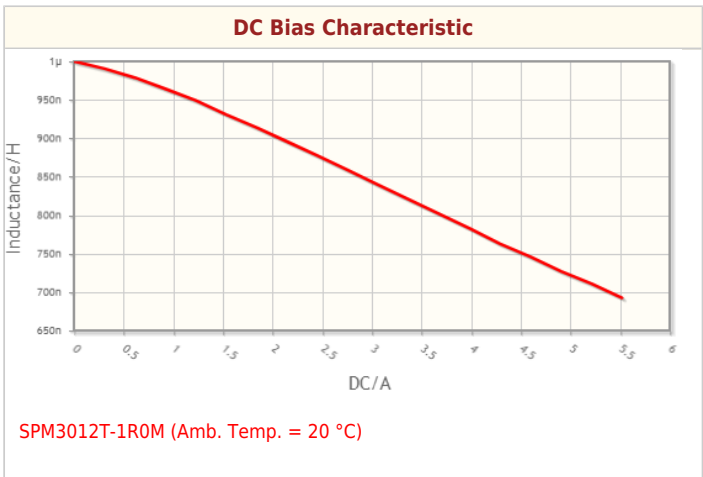
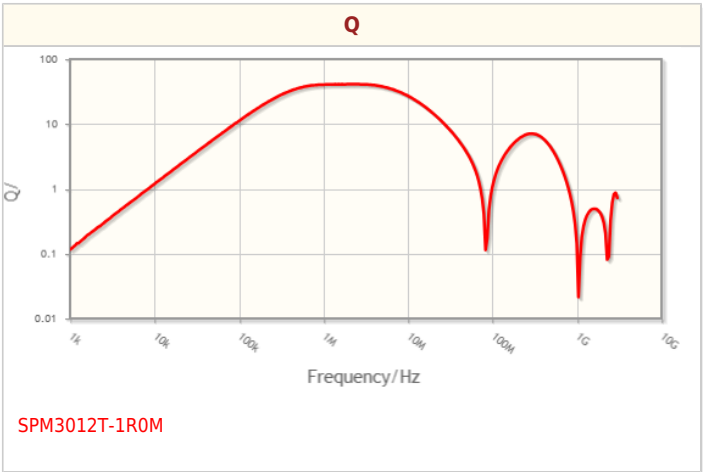
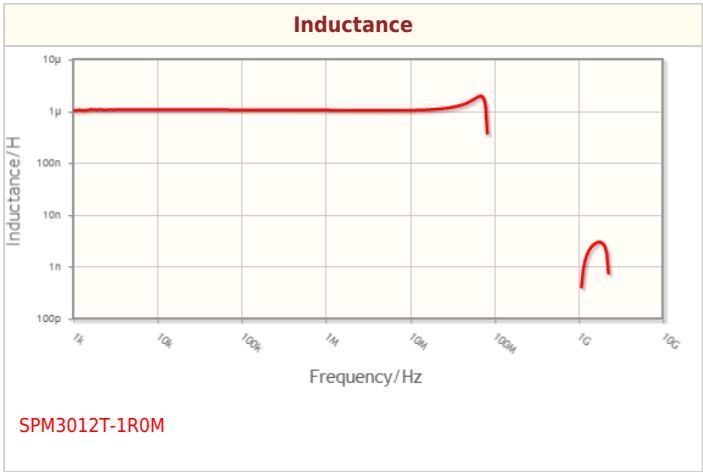
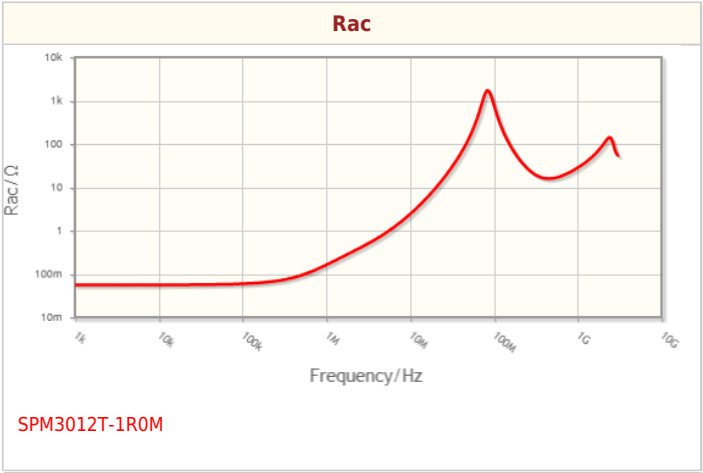
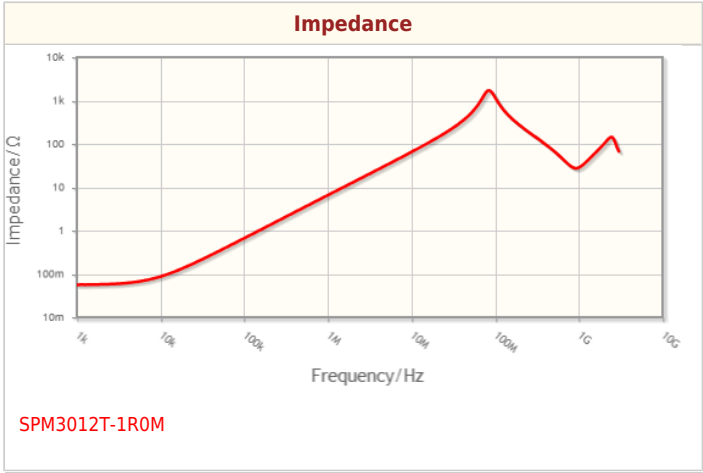


|                  |                                                       |
|------------------|-------------------------------------------------------|
| Soldering Method | Reflow<br>Iron Soldering                              |
| AEC-Q200         | NO                                                    |
| Packing          | Embossed (Plastic)Taping [180mm Reel, Tape width 8mm] |
| Package Quantity | 2000pcs                                               |
| Weight           | 0.047g                                                |

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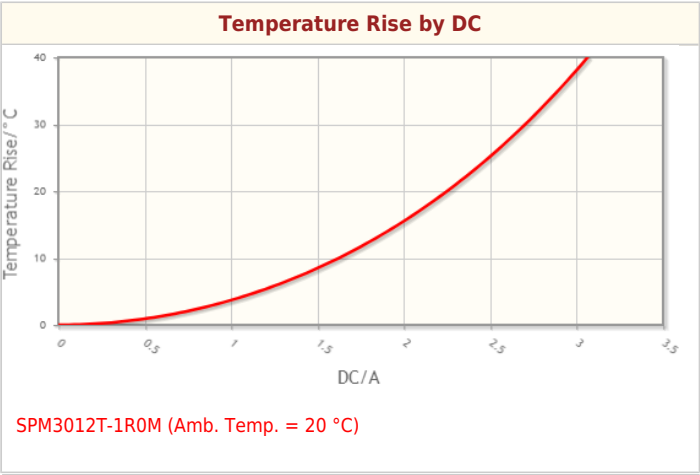
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)



SPM3012T-1R0M



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



SPM3012T-1R0M



# Associated Images

