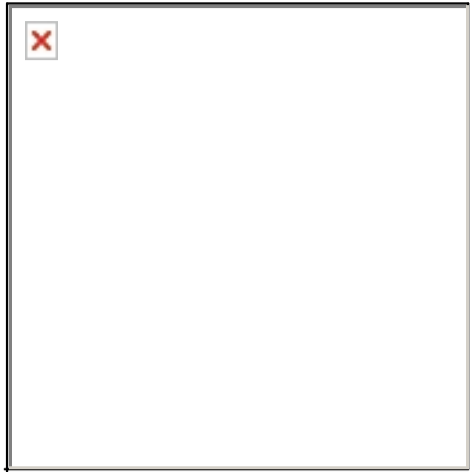


Product Name Wire Wound Inductor for Power Line
Series VLF Series
Type 5012A Type
Part Number VLF5012AT4R7M1R2

Product Lifecycle Stage PROD



Specification

| | | | |
|---|-----------------------|------|---------|
| Mounting Method Flag | Yes | | |
| Processing | wire wound type | | |
| Shape | SMD | | |
| Size Code | 5012 | | |
| Body Length(L) | Nom | 4.7 | mm |
| Body Breadth(W) | Nom | 4.5 | mm |
| Body Height(T) | Max | 1.2 | mm |
| Rated Inductance | Nom | 4.7 | micro H |
| Inductance Tolerance (%) | Min | -20 | % |
| | Max | 20 | % |
| Test Frequency of Inductance | Nom | 100 | kHz |
| DC Resistance | Max | 0.16 | Ohm |
| DC Resistance | Nom | 0.14 | Ohm |
| Rated Current | Max | 1.2 | A |
| IDC1 (Inductance Change) | Max | 1.5 | A |
| IDC2 (Temperature Rise) | Max | 1.2 | A |
| Temperature Rise | 40 deg C | | |
| Terminal Material | Copper alloy / Tin | | |
| Polarity Marking | No | | |
| Magnetic Shielding | Yes | | |
| Soldering Method | Reflow | | |
| Measuring Equipment(Inductance) | 4285A | | |
| Measuring Equipment(DC Resistance) | VP2941A or equivalent | | |
| Category Temperature Range (Including Selftemperature Rise) | Min | -40 | Cel |
| | Max | 105 | Cel |
| Storage Temperature Range | Min | -40 | Cel |
| | Max | 105 | Cel |
| Weight | Nom | 0.07 | g |

Summary/Applications/Features

| | |
|--------------|--|
| Summary | These are compact inductors for power line measuring at L4.5xW4.7mm and 1.2mm in height, considerably smaller compared to inductors with comparable characteristics. |
| Applications | DVCs, DSCs, PDAs, MDs, LCD displays, cellular phones, cordless telephones, HDDs, FDDs, etc. |
| Features | Miniature size, Mount area: 4.5x4.7mm, Height 1.2mm max. Generic use for portable DC to DC converter line. |
| | High magnetic shield construction should actualize high resolution for EMC protection. Available for automatic mounting in tape and reel package. The products do not contain lead and support lead-free soldering. |

Packaging

| | | |
|---------------------|--------------------------------------|----------|
| Packing | Blister (Plastic)Taping [180mm Reel] | |
| Minimum Package Qty | Nom | 1000 Pcs |
| Minimum Order Qty | Nom | 1000 Pcs |



[Caution]

Specifications which provide more details for the proper and safe use of the described product are available upon request.

[Notice of Revision and Improve]

All specifications are subject to change without notice.