

**Product Name** Wire Wound Inductor for Power Line  
**Series** VLF Series  
**Type** 3014A Type  
**Part Number** VLF3014AT4R7MR90

Product Lifecycle Stage PROD



Specification

|   |                    |       |         |
|---|--------------------|-------|---------|
| Mounting Method Flag  | Yes                |       |         |
| Processing  | wire wound type    |       |         |
| Shape   | SMD                |       |         |
| Size Code   | 3014               |       |         |
| Body Length(L)  | Nom                | 2.8   | mm      |
| Body Breadth(W)   | Nom                | 2.6   | mm      |
| Body Height(T)  | Max                | 1.4   | mm      |
| Rated Inductance  | Nom                | 4.7   | micro H |
| Inductance Tolerance (%)                                    | Min                | -20   | %       |
|   | Max                | 20    | %       |
| Test Frequency of Inductance                                | Nom                | 100   | kHz     |
| DC Resistance   | Max                | 0.2   | Ohm     |
| DC Resistance   | Nom                | 0.17  | Ohm     |
| Rated Current   | Max                | 0.9   | A       |
| IDC1 ( Inductance Change)                                   | Max                | 1.2   | A       |
| IDC2 ( Temperature Rise)                                    | Max                | 0.9   | A       |
| Temperature Rise  | 40 deg C           |       |         |
| Terminal Material   | Copper alloy / Tin |       |         |
| Polarity Marking  | No                 |       |         |
| Magnetic Shielding  | Yes                |       |         |
| Soldering Method  | Reflow             |       |         |
| Category Temperature Range (Including Selftemperature Rise) | Min                | -40   | Cel     |
|   | Max                | 105   | Cel     |
| Storage Temperature Range                                   | Min                | -40   | Cel     |
|   | Max                | 105   | Cel     |
| Weight  | Nom                | 0.035 | g       |

Summary/Applications/Features

|              |  |
|--------------|--|
| Summary      | These are compact inductors for power line measuring at L2.6xW2.8mm and 1.4mm 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: 2.6x2.8mm, Height 1.4mm max.<br>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.<br>The products do not contain lead and support lead-free soldering. |

Packaging

|                     |                                      |          |
|---------------------|--------------------------------------|----------|
| Packing             | Blister (Plastic)Taping [180mm Reel] |          |
| Minumum Package Qty | Nom                                  | 2000 Pcs |
| Minimum Order Qty   | Nom                                  | 2000 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.