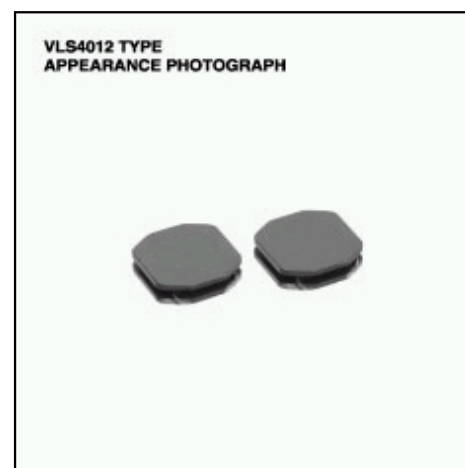


**Product Name** Wire Wound Inductor for Power Line  
**Series** VLS Series  
**Type** 4012 Type  
**Part Number** VLS4012F470MR39

Product Lifecycle Stage PROD



| Specification                |     |                     |  |
|------------------------------|-----|---------------------|--|
| Mounting Method Flag         |     | Yes                 |  |
| Processing                   |     | WINDING             |  |
| Shape                        |     | SMD                 |  |
| Size Code                    |     | 4012                |  |
| Rated Inductance             | Nom | 47 micro H          |  |
| Inductance Tolerance (%)     | Min | -20 %               |  |
|                              | Max | 20 %                |  |
| Test Frequency of Inductance | Nom | 1 M Hz              |  |
| DC Resistance                | Max | 1.02 Ohm            |  |
| DC Resistance                | Nom | 0.85 Ohm            |  |
| Rated Current                | Max | 0.35 A              |  |
| IDC1 ( Inductance Change)    | Max | 0.41 A              |  |
| Terminal Material            |     | Sn(100%)/Sn plating |  |
| Polarity Marking             |     | No                  |  |
| Magnetic Shielding           |     | Yes                 |  |
| Soldering Method             |     | Reflow              |  |
| Storage Temperature Range    | Min | -40 Cel             |  |
|                              | Max | 105 Cel             |  |
| Weight                       | Nom | 0.067 g             |  |

| Summary/Applications/Feature |                                                                                      |                                      |          |
|------------------------------|--------------------------------------------------------------------------------------|--------------------------------------|----------|
| Summary                      | These are compact inductors for power line measuring at L4xW4mm and 1.2mm in height. |                                      |          |
| Applications                 | DVCs, DSCs, PDAs, LCD displays, cellular phones, HDDs, etc.                          |                                      |          |
| Feature                      | Miniature size, Mount area: 4x4mm, Height: 1.2mm max.                                |                                      |          |
|                              | Generic use for portable DC to DC converter line.                                    |                                      |          |
|                              | 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] |          |
| Minumum Package Qty          |                                                                                      | Nom                                  | 1000 Pcs |
| Minimum Order Qty            |                                                                                      | Nom                                  | 1000 Pcs |

[Details](#)

**[ 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.