

## Overview

The KEMET SS Coils, SS11VL Type AC line filters are offered in a wide variety of sizes and specifications.

## Applications

- Consumer Electronics
- Common mode choke

## Benefits

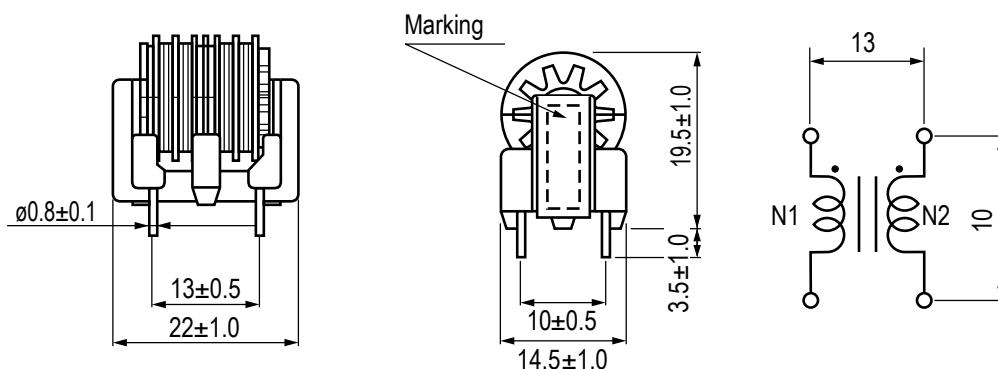
- Wide variety of sizes and specifications
- Super low profile: 20.5 mm maximum
- Inductances up to 82 mH
- Rated Currents up to 3 A
- DC Resistances as low as 0.06  $\Omega$



## Part Number System

| SS     | 11             | VL-              | R                                         | 03                                                             | 550                                                                  |
|--------|----------------|------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Series | Core Size (mm) | Core Orientation | Core Type                                 | Rated Current (A)                                              | Minimum Inductance (mH)                                              |
| SS     | 11 = 11.0      | VL- = Vertical   | Blank = Standard<br>R = High permeability | 0x = 0.x A (e.g., 03 = 0.3 A)<br>xx = x.x A (e.g., 13 = 1.3 A) | xx0 = xx mH (e.g., 550 = 55 mH)<br>0xx = x.x mH (e.g., 024 = 2.4 mH) |

## Dimensions – Millimeters



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

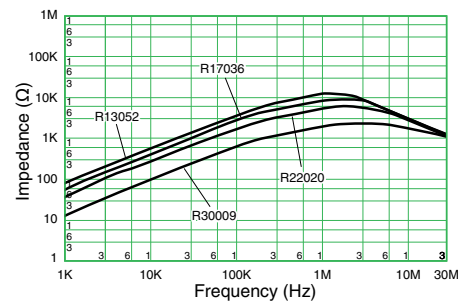
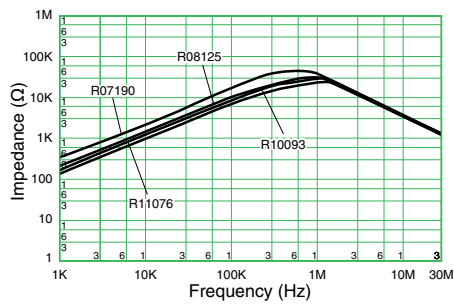
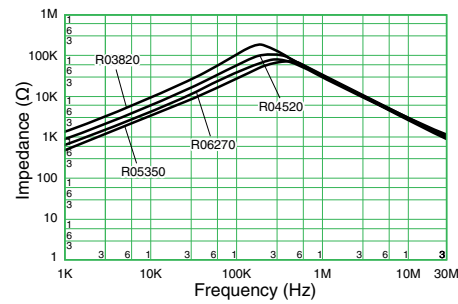
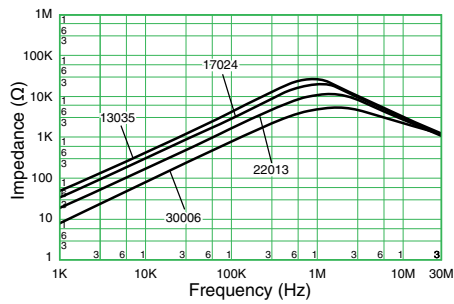
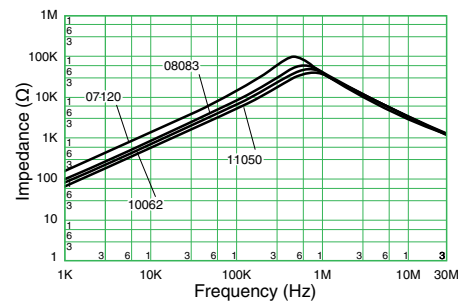
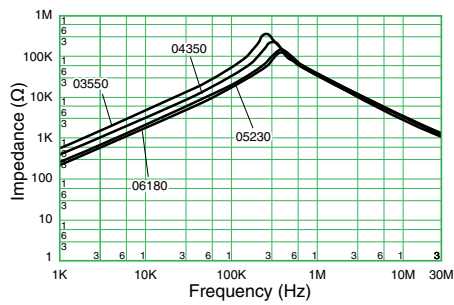
**Table 1 – Ratings & Part Number Reference**

| Part Number   | Rated Current<br>AC (A) | Inductance<br>(mH)<br>Minimum | DC Resistance/<br>Line (Ω)<br>Maximum | Temperature<br>Rise (K)<br>Maximum | Marking     | Weight (g)<br>Approximate |
|---------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------|---------------------------|
| SS11VL-03550  | 0.3                     | 55                            | 4.1                                   | 45                                 | 03 Lot No.  | 10.5                      |
| SS11VL-04350  | 0.4                     | 35                            | 2.6                                   | 45                                 | 04 Lot No.  | 10.7                      |
| SS11VL-05230  | 0.5                     | 23                            | 1.8                                   | 45                                 | 05 Lot No.  | 10.5                      |
| SS11VL-06180  | 0.6                     | 18                            | 1.3                                   | 45                                 | 06 Lot No.  | 11.1                      |
| SS11VL-07120  | 0.7                     | 12                            | 0.90                                  | 45                                 | 07 Lot No.  | 10.8                      |
| SS11VL-08083  | 0.8                     | 8.3                           | 0.74                                  | 45                                 | 08 Lot No.  | 9.8                       |
| SS11VL-10062  | 1.0                     | 6.2                           | 0.44                                  | 45                                 | 10 Lot No.  | 11.1                      |
| SS11VL-11050  | 1.1                     | 5.0                           | 0.40                                  | 45                                 | 11 Lot No.  | 10.7                      |
| SS11VL-13035  | 1.3                     | 3.5                           | 0.28                                  | 45                                 | 13 Lot No.  | 10.5                      |
| SS11VL-17024  | 1.7                     | 2.4                           | 0.19                                  | 45                                 | 17 Lot No.  | 10.8                      |
| SS11VL-22013  | 2.2                     | 1.3                           | 0.12                                  | 45                                 | 22 Lot No.  | 10.4                      |
| SS11VL-30006  | 3.0                     | 0.6                           | 0.06                                  | 45                                 | 30 Lot No.  | 9.6                       |
| SS11VL-R03820 | 0.3                     | 82                            | 4.1                                   | 45                                 | R03 Lot No. | 10.5                      |
| SS11VL-R04520 | 0.4                     | 52                            | 2.6                                   | 45                                 | R04 Lot No. | 10.7                      |
| SS11VL-R05350 | 0.5                     | 35                            | 1.8                                   | 45                                 | R05 Lot No. | 10.5                      |
| SS11VL-R06270 | 0.6                     | 27                            | 1.3                                   | 45                                 | R06 Lot No. | 11.1                      |
| SS11VL-R07190 | 0.7                     | 19                            | 0.90                                  | 45                                 | R07 Lot No. | 10.8                      |
| SS11VL-R08125 | 0.8                     | 12.5                          | 0.74                                  | 45                                 | R08 Lot No. | 9.8                       |
| SS11VL-R10093 | 1.0                     | 9.3                           | 0.44                                  | 45                                 | R10 Lot No. | 11.1                      |
| SS11VL-R11076 | 1.1                     | 7.6                           | 0.40                                  | 45                                 | R11 Lot No. | 10.7                      |
| SS11VL-R13052 | 1.3                     | 5.2                           | 0.28                                  | 45                                 | R13 Lot No. | 10.5                      |
| SS11VL-R17036 | 1.7                     | 3.6                           | 0.19                                  | 45                                 | R17 Lot No. | 10.8                      |
| SS11VL-R22020 | 2.2                     | 2.0                           | 0.12                                  | 45                                 | R22 Lot No. | 10.4                      |
| SS11VL-R30009 | 3.0                     | 0.9                           | 0.06                                  | 45                                 | R30 Lot No. | 9.6                       |

## Specifications

| Item                             | SS11VL                                  |
|----------------------------------|-----------------------------------------|
| Rated Voltage                    | 250 VAC                                 |
| Withstanding Voltage             | 2,400 VAC (2 seconds, between lines)    |
| Insulation Resistance            | > 100 MΩ at 500 VDC (between lines)     |
| Thermal Class                    | E (120°C)                               |
| Operating Temperature Range      | -25°C to T (T = 120 – temperature rise) |
| Inductance Measurement Condition | 1 kHz, 1 V, KC530                       |

## Frequency Characteristics



## Notes on Use

### Shelf Life

- Use within 6 months. If the product is used after a storage period of 6 months or longer, confirm its solderability before use.

### Storage Condition

- Avoid storage in high temperature and high humidity environment, as such condition may deteriorate the solderability of external electrode.
- Avoid storage in atmosphere containing toxic gases or acid (e.g., sulphur and chlorine), as such gas may deteriorate the solderability of external electrode.
- Avoid storage near strong magnetic field, as such condition may magnetize the product.

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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.