

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

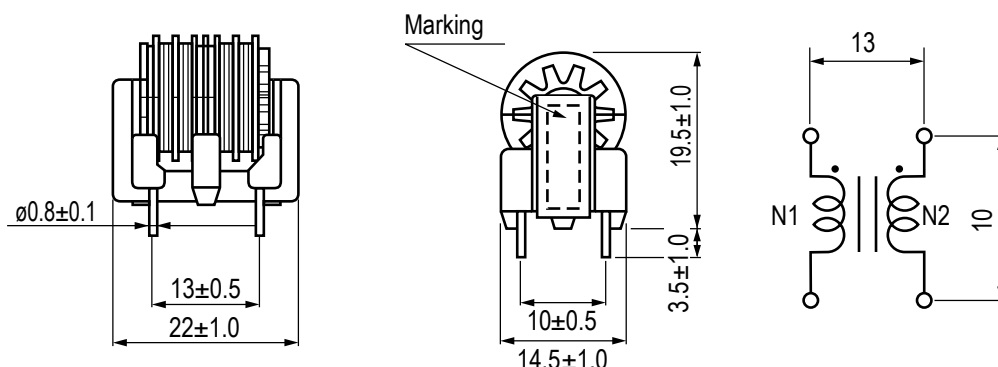
- Wide variety of sizes and specifications
- Super low profile: 20.5 mm maximum
- Inductances up to 82 mH
- Rated Currents up to 3 A
- DC Resistances as low as 0.06 Ω



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 R = High permeability | 0x = 0.x A (e.g., 03 = 0.3 A) xx = x.x A (e.g., 13 = 1.3 A) | xx0 = xx mH (e.g., 550 = 55 mH) 0xx = x.x mH (e.g., 024 = 2.4 mH) |

Dimensions – Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

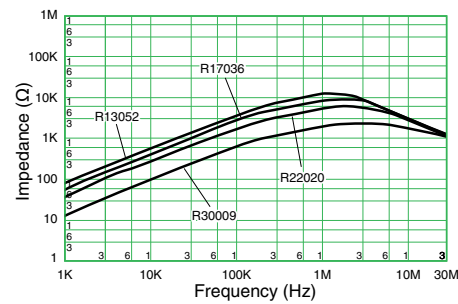
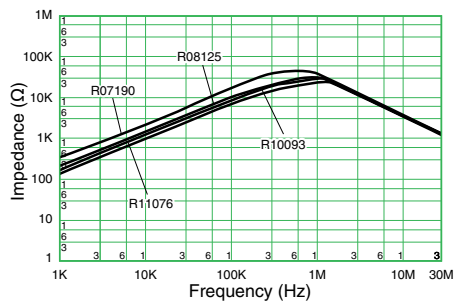
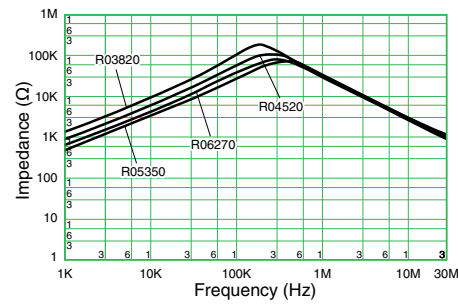
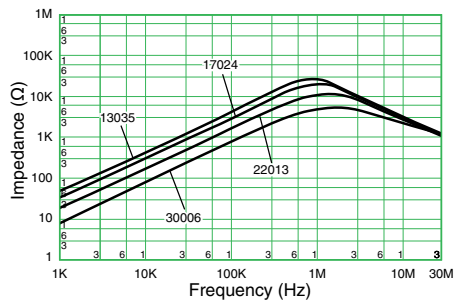
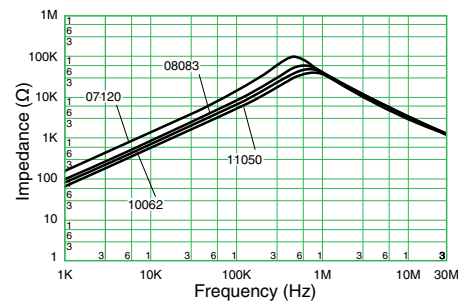
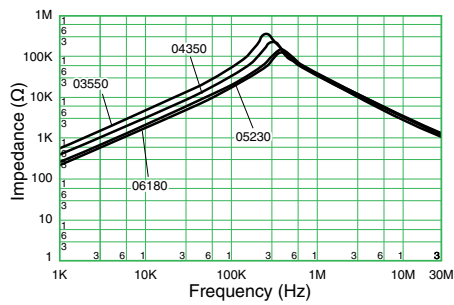
Table 1 – Ratings & Part Number Reference

| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/ Line (Ω) Maximum | Temperature Rise (K) Maximum | Marking | Weight (g) 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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Disclaimer

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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.