

Overview

The KEMET SS Coils, SS21V 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
- High inductance in a compact design
- Pin pitch is identical to SS24V Type and SS11V Type, making design and replacement easier
- Inductances up to 138 mH
- Rated Currents up to 3 A
- DC Resistances as low as 0.07 Ω

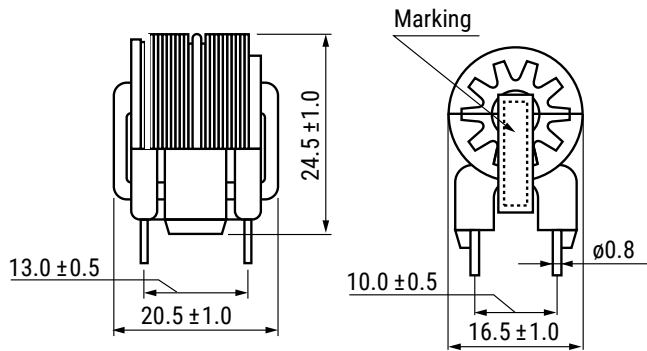


Part Number System

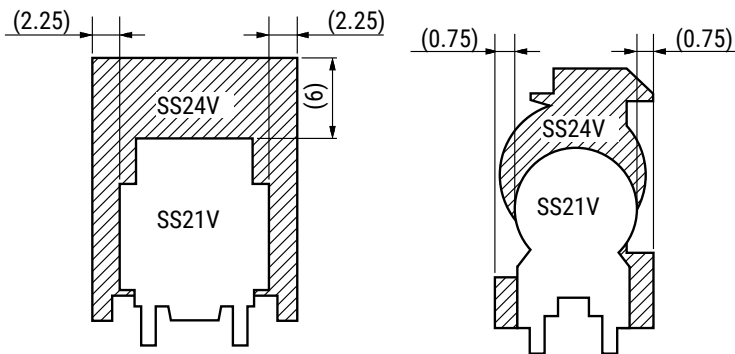
| SS | 21 | V- | R | 03 | 1380 |
|--------|----------------|------------------|---|--|--|
| Series | Core Size (mm) | Core Orientation | Core Type | Rated Current (A) | Minimum Inductance (mH) |
| SS | 21 = 21.0 | V- = Vertical | Blank = Standard R = High permeability | 0x = 0.x A (e.g., 03 = 0.3 A) xx = x.x A (e.g., 13 = 1.3 A) | xxx0 = xxx mH (e.g., 1380 = 138 mH) 0xxx = xx mH (e.g., 0179 = 17.9 mH) 00xx = x.x mH (e.g., 0026 = 2.6 mH) 000x = 0.x mH (e.g., 0008 = 0.8 mH) |

Dimensions – Millimeters

SS21V



Size Comparison with SS24V Type



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

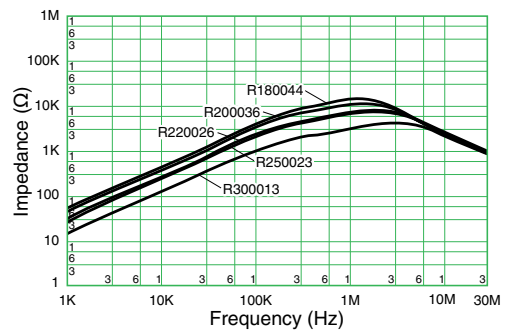
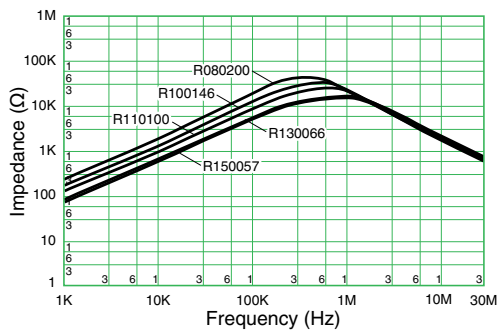
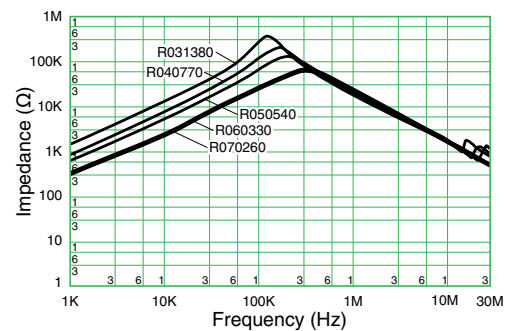
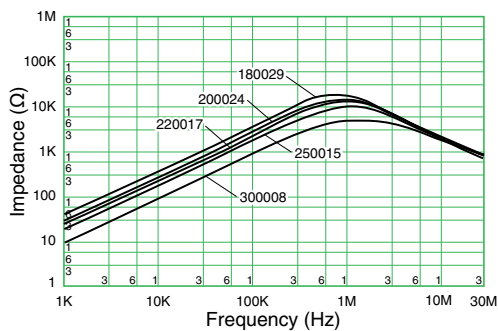
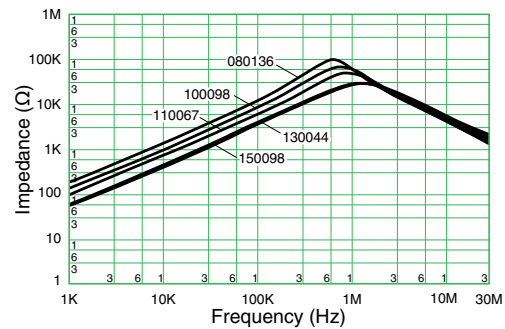
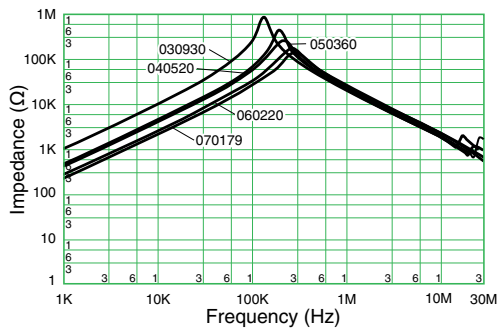
Table 1 – Ratings & Part Number Reference

| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/Line (Ω) Maximum | Temperature Rise (K) Maximum | Marking | Weight (g) Approximate |
|---------------|----------------------|-------------------------|--------------------------------|------------------------------|-------------|------------------------|
| SS21V-030930 | 0.3 | 93 | 5.9 | 50 | 03 Lot No. | 12.3 |
| SS21V-040520 | 0.4 | 52 | 5.4 | 50 | 04 Lot No. | 12.2 |
| SS21V-050360 | 0.5 | 36 | 2.4 | 50 | 05 Lot No. | 12.2 |
| SS21V-060220 | 0.6 | 22 | 1.5 | 45 | 06 Lot No. | 12.9 |
| SS21V-070179 | 0.7 | 17.9 | 1.1 | 50 | 07 Lot No. | 13.2 |
| SS21V-080136 | 0.8 | 13.6 | 0.8 | 45 | 08 Lot No. | 13.4 |
| SS21V-100098 | 1.0 | 9.8 | 0.6 | 50 | 10 Lot No. | 13.1 |
| SS21V-110067 | 1.1 | 6.7 | 0.45 | 45 | 11 Lot No. | 12.8 |
| SS21V-130044 | 1.3 | 4.4 | 0.35 | 50 | 13 Lot No. | 11.5 |
| SS21V-150038 | 1.5 | 3.8 | 0.30 | 50 | 15 Lot No. | 12.4 |
| SS21V-180029 | 1.8 | 2.9 | 0.20 | 45 | 18 Lot No. | 13.3 |
| SS21V-200024 | 2.0 | 2.4 | 0.15 | 50 | 20 Lot No. | 12.6 |
| SS21V-220017 | 2.2 | 1.7 | 0.13 | 45 | 22 Lot No. | 12.7 |
| SS21V-250015 | 2.5 | 1.5 | 0.10 | 50 | 25 Lot No. | 12.3 |
| SS21V-300008 | 3.0 | 0.8 | 0.07 | 50 | 30 Lot No. | 11.7 |
| SS21V-R031380 | 0.3 | 138 | 5.9 | 50 | R03 Lot No. | 12.3 |
| SS21V-R040770 | 0.4 | 77 | 5.4 | 50 | R04 Lot No. | 12.2 |
| SS21V-R050540 | 0.5 | 54 | 2.4 | 50 | R05 Lot No. | 12.2 |
| SS21V-R060330 | 0.6 | 33 | 1.5 | 45 | R06 Lot No. | 12.9 |
| SS21V-R070260 | 0.7 | 26 | 1.1 | 50 | R07 Lot No. | 13.2 |
| SS21V-R080200 | 0.8 | 20 | 0.8 | 45 | R08 Lot No. | 13.4 |
| SS21V-R100146 | 1.0 | 14.6 | 0.6 | 50 | R10 Lot No. | 13.1 |
| SS21V-R110100 | 1.1 | 10 | 0.45 | 45 | R11 Lot No. | 12.8 |
| SS21V-R130066 | 1.3 | 6.6 | 0.35 | 50 | R13 Lot No. | 11.5 |
| SS21V-R150057 | 1.5 | 5.7 | 0.30 | 50 | R15 Lot No. | 12.4 |
| SS21V-R180044 | 1.8 | 4.4 | 0.20 | 45 | R18 Lot No. | 13.3 |
| SS21V-R200036 | 2.0 | 3.6 | 0.15 | 50 | R20 Lot No. | 12.6 |
| SS21V-R220026 | 2.2 | 2.6 | 0.13 | 45 | R22 Lot No. | 12.7 |
| SS21V-R250023 | 2.5 | 2.3 | 0.10 | 50 | R25 Lot No. | 12.3 |
| SS21V-R300013 | 3.0 | 1.3 | 0.07 | 50 | R30 Lot No. | 11.7 |

Specifications

| Item | SS21V |
|----------------------------------|---|
| Rated Voltage | 250 VAC |
| Withstanding Voltage | 2400 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.

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