

## Overview

The KEMET SS Coils, SS30V 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 SS35V Type and SS28V Type, making design and replacement easier
- Inductances up to 96 mH
- Rated Currents up to 4.5 A
- DC Resistances as low as 0.06  $\Omega$

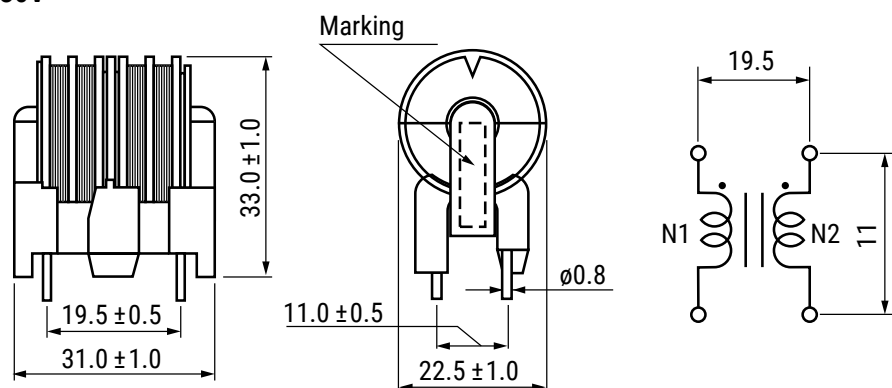


## Part Number System

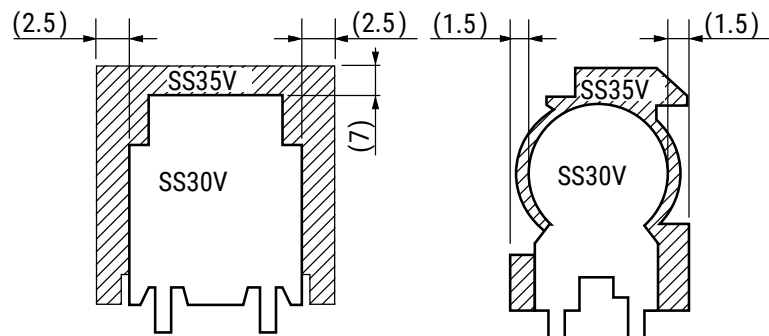
| SS     | 30             | V-               | R                                         | 08                                                             | 0960                                                                     |
|--------|----------------|------------------|-------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|
| Series | Core Size (mm) | Core Orientation | Core Type                                 | Rated Current (A)                                              | Minimum Inductance (mH)                                                  |
| SS     | 30 = 30.0      | V- = Vertical    | Blank = Standard<br>R = High permeability | 0x = 0.x A (e.g., 08 = 0.8 A)<br>xx = x.x A (e.g., 25 = 2.5 A) | 0xxx = xx mH (e.g., 0960 = 96 mH)<br>00xx = x.x mH (e.g., 0028 = 2.8 mH) |

## Dimensions – Millimeters

### SS30V



### Size Comparison with SS35V Type



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

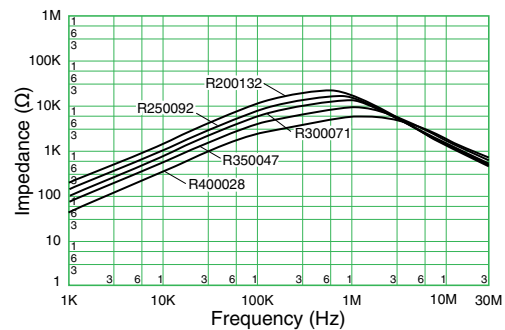
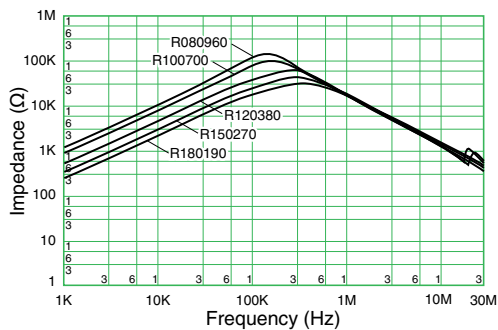
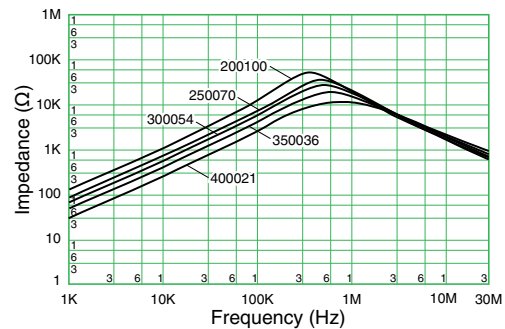
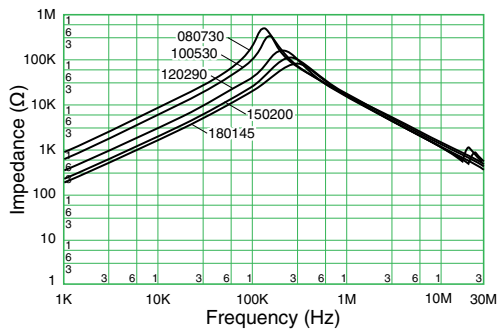
**Table 1 – Ratings & Part Number Reference**

| 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 |
|---------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------|---------------------------|
| SS30V-080730  | 0.8                     | 73                            | 1.5                                   | 50                                 | 08 Lot No.  | 35.1                      |
| SS30V-100530  | 1.0                     | 53                            | 1.1                                   | 50                                 | 10 Lot No.  | 36.8                      |
| SS30V-120290  | 1.2                     | 29                            | 0.6                                   | 45                                 | 12 Lot No.  | 35.0                      |
| SS30V-150200  | 1.5                     | 20                            | 0.5                                   | 45                                 | 15 Lot No.  | 35.3                      |
| SS30V-180145  | 1.8                     | 14.5                          | 0.23                                  | 50                                 | 18 Lot No.  | 35.2                      |
| SS30V-200100  | 2.0                     | 10                            | 0.21                                  | 45                                 | 20 Lot No.  | 34.9                      |
| SS30V-250070  | 2.5                     | 7.0                           | 0.16                                  | 45                                 | 25 Lot No.  | 34.1                      |
| SS30V-300054  | 3.0                     | 5.4                           | 0.12                                  | 45                                 | 30 Lot No.  | 34.6                      |
| SS30V-350036  | 3.5                     | 3.6                           | 0.10                                  | 50                                 | 35 Lot No.  | 30.6                      |
| SS30V-400021  | 4.0                     | 2.1                           | 0.07                                  | 50                                 | 40 Lot No.  | 29.0                      |
| SS30V-450013  | 4.5                     | 1.3                           | 0.06                                  | 50                                 | 45 Lot No.  | 26.1                      |
| SS30V-R080960 | 0.8                     | 96                            | 1.5                                   | 50                                 | R08 Lot No. | 35.1                      |
| SS30V-R100700 | 1.0                     | 70                            | 1.1                                   | 50                                 | R10 Lot No. | 36.8                      |
| SS30V-R120380 | 1.2                     | 38                            | 0.6                                   | 45                                 | R12 Lot No. | 35.0                      |
| SS30V-R150270 | 1.5                     | 27                            | 0.5                                   | 45                                 | R15 Lot No. | 35.3                      |
| SS30V-R180190 | 1.8                     | 19                            | 0.23                                  | 50                                 | R18 Lot No. | 35.2                      |
| SS30V-R200132 | 2.0                     | 13.2                          | 0.21                                  | 45                                 | R20 Lot No. | 34.9                      |
| SS30V-R250092 | 2.5                     | 9.2                           | 0.16                                  | 45                                 | R25 Lot No. | 34.1                      |
| SS30V-R300071 | 3.0                     | 7.1                           | 0.12                                  | 45                                 | R30 Lot No. | 34.6                      |
| SS30V-R350047 | 3.5                     | 4.7                           | 0.10                                  | 50                                 | R35 Lot No. | 30.6                      |
| SS30V-R400028 | 4.0                     | 2.8                           | 0.07                                  | 50                                 | R40 Lot No. | 29.0                      |
| SS30V-R450017 | 4.5                     | 1.7                           | 0.06                                  | 50                                 | R45 Lot No. | 26.1                      |

## Specifications

| Item                             | SS30V                                   |
|----------------------------------|-----------------------------------------|
| 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.