

## Overview

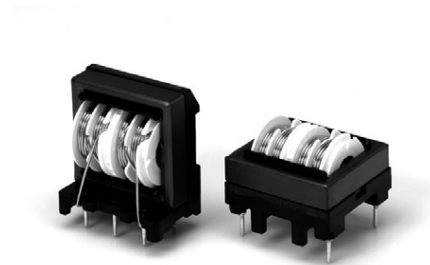
The KEMET SS Coils, SS35V/H Type AC line filters are offered in a wide variety of sizes and specifications.

## Applications

- Consumer Electronics
- Common mode choke

## Benefits

- Wide variety of sizes and specifications
- Inductances up to 30 mH
- Rated Currents up to 4.5 A
- DC Resistances as low as 0.06  $\Omega$

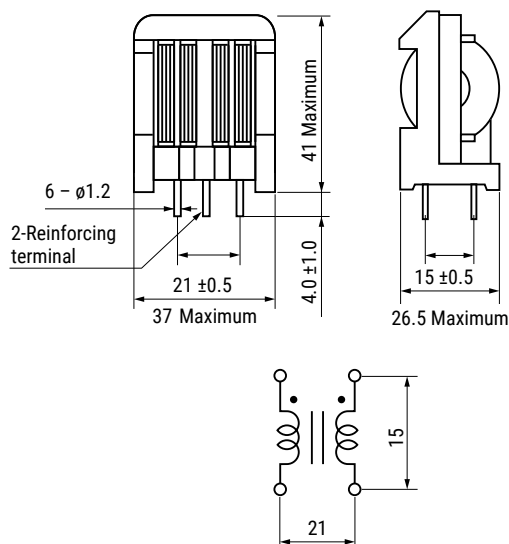


## Part Number System

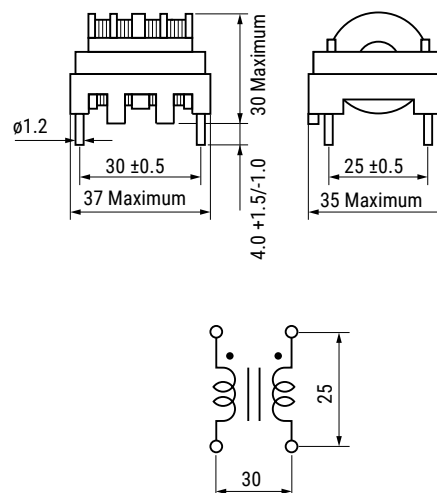
| SS     | 35             | V-                               | 15                            | 300                                                                  |
|--------|----------------|----------------------------------|-------------------------------|----------------------------------------------------------------------|
| Series | Core Size (mm) | Core Orientation                 | Rated Current (A)             | Minimum Inductance (mH)                                              |
| SS     | 35 = 35.0      | V- = Vertical<br>H- = Horizontal | xx = x.x A (e.g., 15 = 1.5 A) | xx0 = xx mH (e.g., 300 = 30 mH)<br>0xx = x.x mH (e.g., 033 = 3.3 mH) |

## Dimensions – Millimeters

### SS35V



### SS35H



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

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

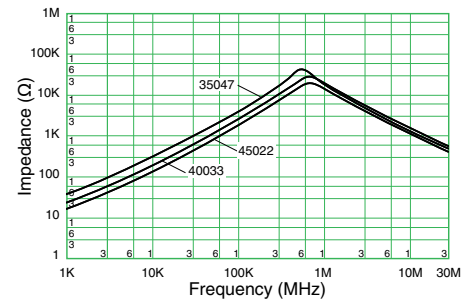
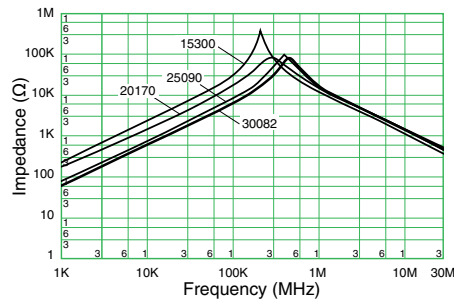
| Part Number   | Rated Current<br>AC (A) | Inductance<br>(mH)<br>Minimum | DC Resistance/<br>Line (Ω)<br>Maximum | Temperature<br>Rise (K)<br>Maximum | Weight (g) Approximate |      |
|---------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|------------------------|------|
|               |                         |                               |                                       |                                    | V                      | H    |
| SS35(1)-15300 | 1.5                     | 30                            | 0.48                                  | 45                                 | 60.0                   | 57.0 |
| SS35(1)-20170 | 2.0                     | 17                            | 0.28                                  | 45                                 | 61.0                   | 58.0 |
| SS35(1)-25090 | 2.5                     | 9.0                           | 0.20                                  | 45                                 | 59.0                   | 56.0 |
| SS35(1)-30082 | 3.0                     | 8.2                           | 0.15                                  | 45                                 | 59.0                   | 56.0 |
| SS35(1)-35047 | 3.5                     | 4.7                           | 0.10                                  | 45                                 | 57.0                   | 54.0 |
| SS35(1)-40033 | 4.0                     | 3.3                           | 0.08                                  | 50                                 | 55.0                   | 52.0 |
| SS35(1)-45022 | 4.5                     | 2.2                           | 0.06                                  | 50                                 | 53.0                   | 50.0 |

(1) To complete KEMET part number, insert V for vertical core type or H for horizontal core type.

## Specifications

| Item                             | SS35V/H                                 |
|----------------------------------|-----------------------------------------|
| 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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