

## Overview

The KEMET SS Coils, SS24V/H-CH 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 60 mH
- Rated Currents up to 2 A
- DC Resistances as low as 0.17  $\Omega$

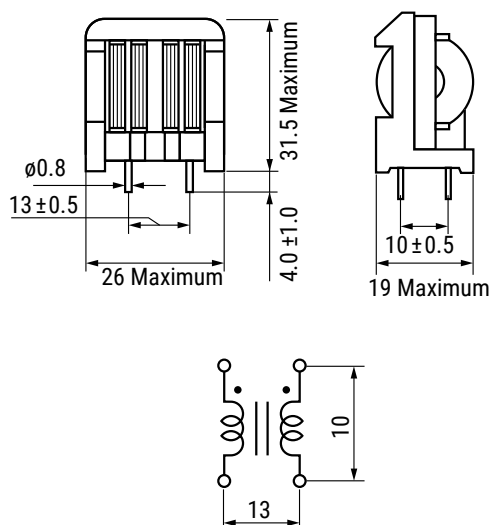


## Part Number System

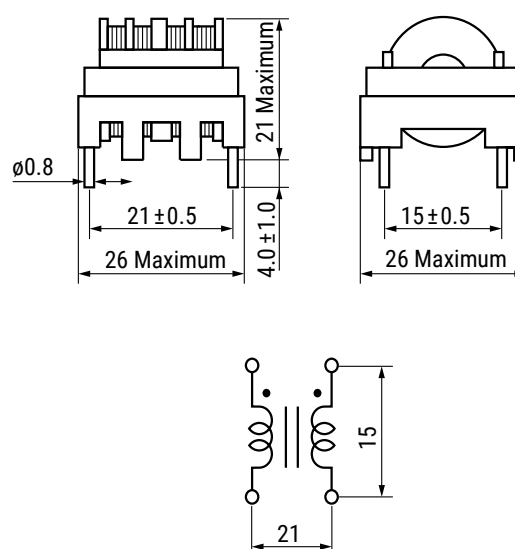
| SS     | 24             | V-                               | R                                                                                                                   | 05                                                             | 600-                                                                   | CH           |
|--------|----------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|--------------|
| Series | Core Size (mm) | Core Orientation                 | Core Type                                                                                                           | Rated Current (A)                                              | Minimum Inductance (mH)                                                | Product Type |
| SS     | 24 = 24.0      | V- = Vertical<br>H- = Horizontal | Blank = Standard<br>K = High permeability ( $\mu \approx 8,000$ )<br>R = High permeability ( $\mu \approx 10,000$ ) | 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., 600 = 60 mH)<br>0xx- = x.x mH (e.g., 025 = 2.5 mH) | CH           |

## Dimensions – Millimeters

### SS24V-CH



### SS24H-CH



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

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

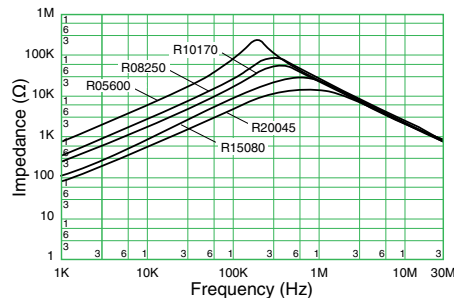
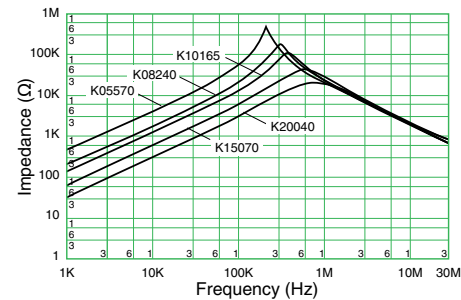
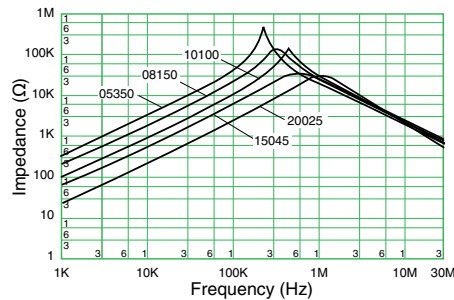
| Part Number       | Rated Current<br>AC (A) | Inductance<br>(mH)<br>Minimum | DC Resistance/<br>Line (Ω)<br>Maximum | Temperature<br>Rise (K)<br>Maximum | Weight (g) Approximate |      |
|-------------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|------------------------|------|
|                   |                         |                               |                                       |                                    | V                      | H    |
| SS24(1)-05350-CH  | 0.5                     | 35                            | 1.75                                  | 45                                 | 18.8                   | 17.1 |
| SS24(1)-08150-CH  | 0.8                     | 15                            | 0.75                                  | 50                                 | 18.8                   | 17.1 |
| SS24(1)-10100-CH  | 1.0                     | 10                            | 0.55                                  | 45                                 | 18.6                   | 16.9 |
| SS24(1)-15045-CH  | 1.5                     | 4.5                           | 0.24                                  | 45                                 | 19.0                   | 17.3 |
| SS24(1)-20025-CH  | 2.0                     | 2.5                           | 0.17                                  | 50                                 | 18.3                   | 16.6 |
| SS24(1)-K05570-CH | 0.5                     | 57                            | 1.75                                  | 45                                 | 18.8                   | 17.1 |
| SS24(1)-K08240-CH | 0.8                     | 24                            | 0.75                                  | 50                                 | 18.8                   | 17.1 |
| SS24(1)-K10165-CH | 1.0                     | 16.5                          | 0.55                                  | 45                                 | 18.6                   | 16.9 |
| SS24(1)-K15070-CH | 1.5                     | 7.0                           | 0.24                                  | 45                                 | 19.0                   | 17.3 |
| SS24(1)-K20040-CH | 2.0                     | 4.0                           | 0.17                                  | 50                                 | 18.3                   | 16.6 |
| SS24(1)-R05600-CH | 0.5                     | 60                            | 1.75                                  | 45                                 | 18.8                   | 17.1 |
| SS24(1)-R08250-CH | 0.8                     | 25                            | 0.75                                  | 50                                 | 18.8                   | 17.1 |
| SS24(1)-R10170-CH | 1.0                     | 17                            | 0.55                                  | 45                                 | 18.6                   | 16.9 |
| SS24(1)-R15080-CH | 1.5                     | 8.0                           | 0.24                                  | 45                                 | 19.0                   | 17.3 |
| SS24(1)-R20045-CH | 2.0                     | 4.5                           | 0.17                                  | 50                                 | 18.3                   | 16.6 |

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

## Specifications

| Item                             | SS24V/H-CH                              |
|----------------------------------|-----------------------------------------|
| 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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