

Common Mode SS Coils, 24V/H-CH Series

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 Ω

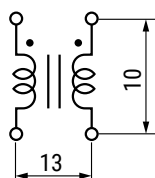
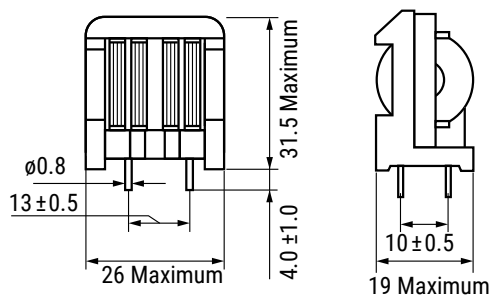


Part Number System

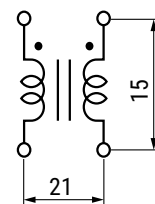
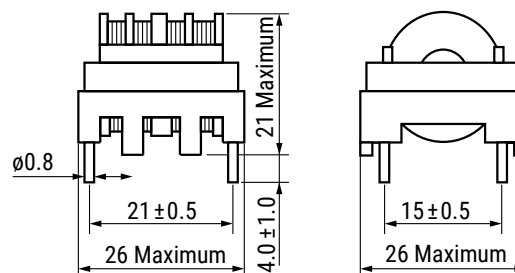
SS	24	V-	R	05	600-	CH
Series	Core Size (mm)	Core Orientation	Core Type	Rated Current AC (A)	Inductance (mH)	Product Type
SS	24 = 24.0 mm	V- = Vertical H- = Horizontal	Blank = Standard K = High permeability ($\mu \approx 8,000$) R = High permeability ($\mu \approx 10,000$)	0x = 0.x A xx = x.x A Examples: 03 = 0.3 A 13 = 1.3 A	xx0 = xx mH 0xx = x.x mH Examples: 660 = 66 mH 025 = 2.5 mH	CH

Dimensions – Millimeters

SS24V-CH



SS24H-CH



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



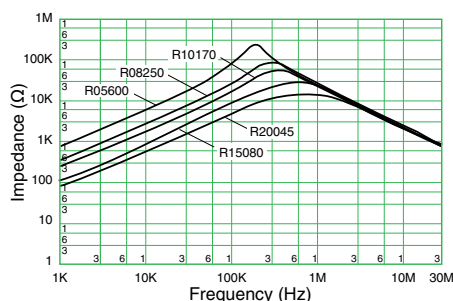
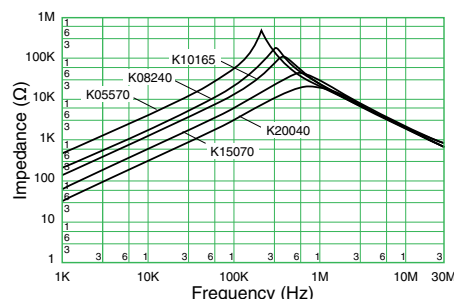
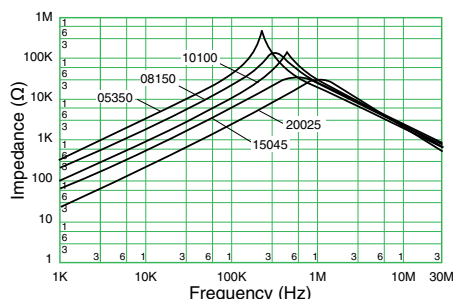
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Weight (g) Approximate
SS24H-05350-CH	0.5	35.0	1.75	45	17.1
SS24V-05350-CH	0.5	35.0	1.75	45	18.8
SS24H-08150-CH	0.8	15.0	0.75	50	17.1
SS24V-08150-CH	0.8	15.0	0.75	50	18.8
SS24H-10100-CH	1.0	10.0	0.55	45	16.9
SS24V-10100-CH	1.0	10.0	0.55	45	18.6
SS24H-15045-CH	1.5	4.5	0.24	45	17.3
SS24V-15045-CH	1.5	4.5	0.24	45	19.0
SS24H-20025-CH	2.0	2.5	0.17	50	16.6
SS24V-20025-CH	2.0	2.5	0.17	50	18.3
SS24H-K05570-CH	0.5	57.0	1.75	45	17.1
SS24V-K05570-CH	0.5	57.0	1.75	45	18.8
SS24H-K08240-CH	0.8	24.0	0.75	50	17.1
SS24V-K08240-CH	0.8	24.0	0.75	50	18.8
SS24H-K10165-CH	1.0	16.5	0.55	45	16.9
SS24V-K10165-CH	1.0	16.5	0.55	45	18.6
SS24H-K15070-CH	1.5	7.0	0.24	45	17.3
SS24V-K15070-CH	1.5	7.0	0.24	45	19.0
SS24H-K20040-CH	2.0	4.0	0.17	50	16.6
SS24V-K20040-CH	2.0	4.0	0.17	50	18.3
SS24H-R05600-CH	0.5	60.0	1.75	45	17.1
SS24V-R05600-CH	0.5	60.0	1.75	45	18.8
SS24H-R08250-CH	0.8	25.0	0.75	50	17.1
SS24V-R08250-CH	0.8	25.0	0.75	50	18.8
SS24H-R10170-CH	1.0	17.0	0.55	45	16.9
SS24V-R10170-CH	1.0	17.0	0.55	45	18.6
SS24H-R15080-CH	1.5	8.0	0.24	45	17.3
SS24V-R15080-CH	1.5	8.0	0.24	45	19.0
SS24H-R20045-CH	2.0	4.5	0.17	50	16.6
SS24V-R20045-CH	2.0	4.5	0.17	50	18.3

Performance Characteristics

Item	SS24V/H-CH
Rated Voltage	250 VAC
Withstanding Voltage	2,400 VAC (2 seconds, between lines)
Insulation Resistance	> 100 M Ω at 500 VDC (between lines)
Rated Current AC Range	0.5 – 2.0 A
Rated Inductance Range	2.5 – 60.0 mH minimum
Inductance Measurement Condition	1 kHz
Thermal Class	E (120°C)
Operating Temperature Range	-25°C to +120°C (include self temperature rise)

Frequency Characteristics



Handling Precautions

Precautions for product storage

AC Line Filters should be stored in normal working environments. While the chokes themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage.

KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 70% relative humidity. Atmospheres should be free of chlorine and sulfur bearing compounds. Temperature fluctuations should be minimized to avoid condensation on the parts. Avoid storage near strong magnetic fields, as this might magnetize the product.

For optimized solderability, AC line filters stock should be used promptly and preferably within 6 months of receipt.

Product temperature rise values

The values listed for temperature rise are the result of self-heating in wires when the rated current (commercial frequency) is applied.

When using the product, check and evaluate the value of the core temperature rise under actual operating conditions.

Export Control

For customers in Japan

For products that are controlled items subject to the “Foreign Exchange and Foreign Trade Law” of Japan, the export license specified by the law is required for export.

For customers outside Japan

AC line filters should not be used or sold for the use in the development, production, stockpiling, or utilization of any conventional weapons, mass-destruction weapons (nuclear, chemical, biological weapons, or missiles), or any other weapons.

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Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

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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