NOT FOR NEW DESIGN

Common Mode SS Coils, 11V/H-CH Series

Overview

The KEMET SS Coils, SS11V/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 82 mH
- Rated Currents up to 3 A
- DC Resistances as low as 0.063 Ω



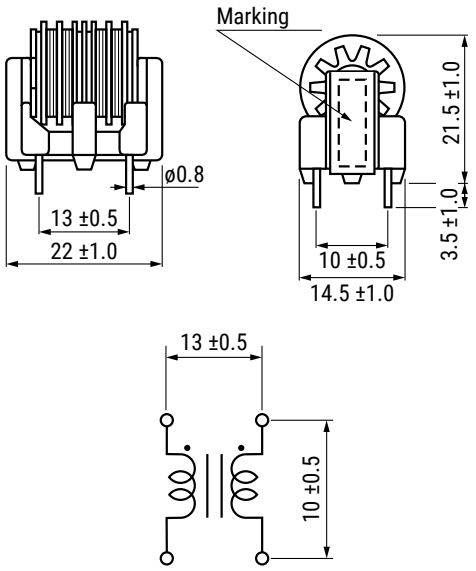
Part Number System

SS	11	V-	R	03	550-	CH
Series	Core Size (mm)	Core Orientation	Core Type	Rated Current AC (A)	Inductance (mH) Minimum	Product Type
SS	11 = 11.0 mm	V- = Vertical H- = Horizontal	Blank = Standard R = High permeability	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: 550 = 55 mH 024 = 2.4 mH	CH

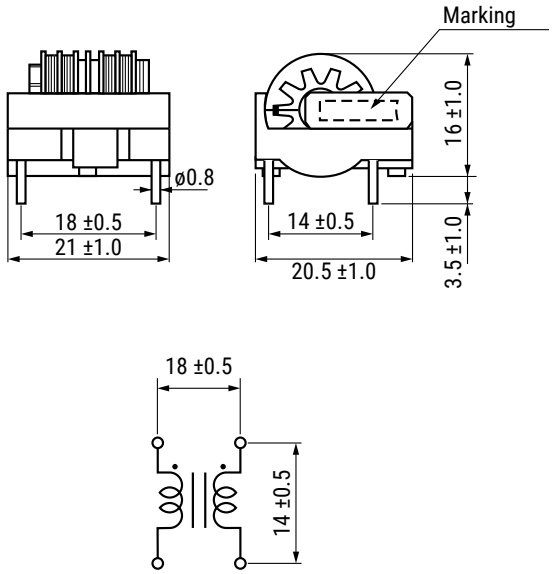
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Dimensions – Millimeters

SS11V-CH



SS11H-CH



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.

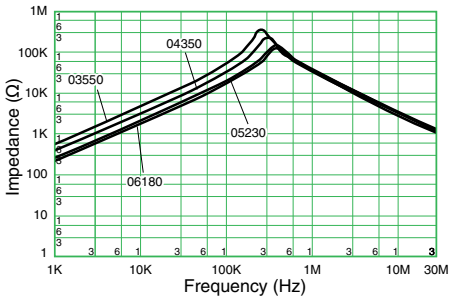
Table 1 – Ratings & Part Number Reference

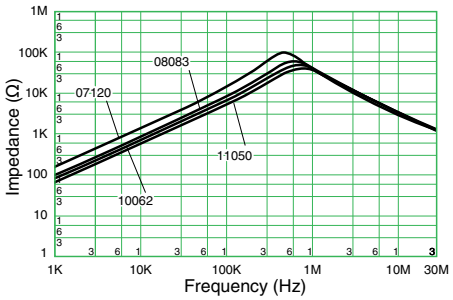
Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SS11H-03550-CH	0.3	55.0	4.10	45	03 Lot No.	10.5
SS11V-03550-CH	0.3	55.0	4.10	45	03 Lot No.	10.5
SS11H-04350-CH	0.4	35.0	2.60	45	04 Lot No.	10.7
SS11V-04350-CH	0.4	35.0	2.60	45	04 Lot No.	10.7
SS11H-05230-CH	0.5	23.0	1.80	45	05 Lot No.	10.5
SS11V-05230-CH	0.5	23.0	1.80	45	05 Lot No.	10.5
SS11H-06180-CH	0.6	18.0	1.30	45	06 Lot No.	11.1
SS11V-06180-CH	0.6	18.0	1.30	45	06 Lot No.	11.1
SS11H-07120-CH	0.7	12.0	0.90	45	07 Lot No.	10.8
SS11V-07120-CH	0.7	12.0	0.90	45	07 Lot No.	10.8
SS11H-08083-CH	0.8	8.3	0.74	45	08 Lot No.	9.8
SS11V-08083-CH	0.8	8.3	0.74	45	08 Lot No.	9.8
SS11H-10062-CH	1.0	6.2	0.44	45	10 Lot No.	11.1
SS11V-10062-CH	1.0	6.2	0.44	45	10 Lot No.	11.1
SS11H-11050-CH	1.1	5.0	0.40	45	11 Lot No.	10.7
SS11V-11050-CH	1.1	5.0	0.40	45	11 Lot No.	10.7
SS11H-13035-CH	1.3	3.5	0.28	45	13 Lot No.	10.5
SS11V-13035-CH	1.3	3.5	0.28	45	13 Lot No.	10.5
SS11H-17024-CH	1.7	2.4	0.19	45	17 Lot No.	10.8
SS11V-17024-CH	1.7	2.4	0.19	45	17 Lot No.	10.8
SS11H-22013-CH	2.2	1.3	0.12	45	22 Lot No.	10.4
SS11V-22013-CH	2.2	1.3	0.12	45	22 Lot No.	10.4
SS11H-30006-CH	3.0	0.6	0.06	45	30 Lot No.	9.6
SS11V-30006-CH	3.0	0.6	0.06	45	30 Lot No.	9.6
SS11H-R03820-CH	0.3	82.0	4.10	45	R03 Lot No.	10.5
SS11V-R03820-CH	0.3	82.0	4.10	45	R03 Lot No.	10.5
SS11H-R04520-CH	0.4	52.0	2.60	45	R04 Lot No.	10.7
SS11V-R04520-CH	0.4	52.0	2.60	45	R04 Lot No.	10.7
SS11H-R05350-CH	0.5	35.0	1.80	45	R05 Lot No.	10.5
SS11V-R05350-CH	0.5	35.0	1.80	45	R05 Lot No.	10.5
SS11H-R06270-CH	0.6	27.0	1.30	45	R06 Lot No.	11.1
SS11V-R06270-CH	0.6	27.0	1.30	45	R06 Lot No.	11.1
SS11H-R07190-CH	0.7	19.0	0.90	45	R07 Lot No.	10.8
SS11V-R07190-CH	0.7	19.0	0.90	45	R07 Lot No.	10.8
SS11H-R08125-CH	0.8	12.5	0.74	45	R08 Lot No.	9.8
SS11V-R08125-CH	0.8	12.5	0.74	45	R08 Lot No.	9.8
SS11H-R10093-CH	1.0	9.3	0.44	45	R10 Lot No.	11.1
SS11V-R10093-CH	1.0	9.3	0.44	45	R10 Lot No.	11.1
SS11H-R11076-CH	1.1	7.6	0.40	45	R11 Lot No.	10.7
SS11V-R11076-CH	1.1	7.6	0.40	45	R11 Lot No.	10.7
SS11H-R13052-CH	1.3	5.2	0.28	45	R13 Lot No.	10.5
SS11V-R13052-CH	1.3	5.2	0.28	45	R13 Lot No.	10.5
SS11H-R17036-CH	1.7	3.6	0.19	45	R17 Lot No.	10.8
SS11V-R17036-CH	1.7	3.6	0.19	45	R17 Lot No.	10.8
SS11H-R22020-CH	2.2	2.0	0.12	45	R22 Lot No.	10.4
SS11V-R22020-CH	2.2	2.0	0.12	45	R22 Lot No.	10.4
SS11H-R30009-CH	3.0	0.9	0.06	45	R30 Lot No.	9.6
SS11V-R30009-CH	3.0	0.9	0.06	45	R30 Lot No.	9.6

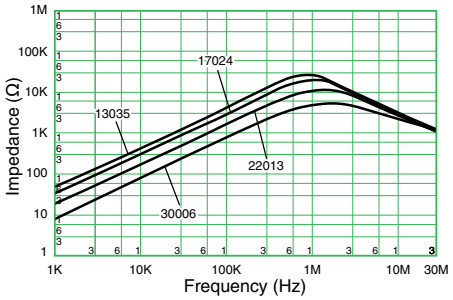
Performance Characteristics

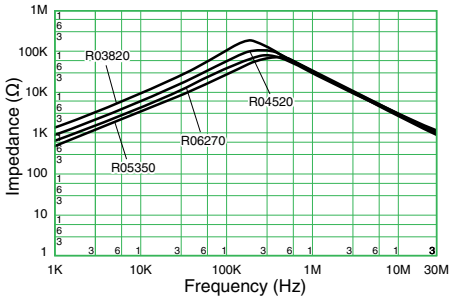
Item	SS11V/H-CH
Rated Voltage	250 VAC
Withstanding Voltage	2,400 VAC (2 seconds, between lines)
Insulation Resistance	> 100 MΩ at 500 VDC (between lines)
Rated Current AC Range	0.3 – 3.0 A
Rated Inductance Range	0.6 - 82.0 mH minimum
Inductance Measurement Condition	1 kHz
Thermal Class	E (120°C)
Operating Temperature Range	–25°C to +120°C (include self temperature rise)

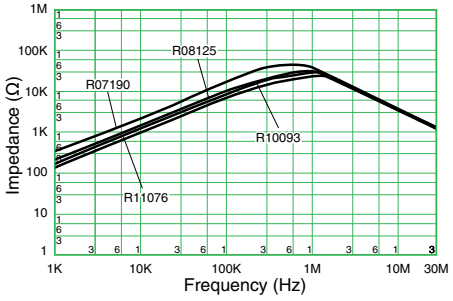
Frequency Characteristics

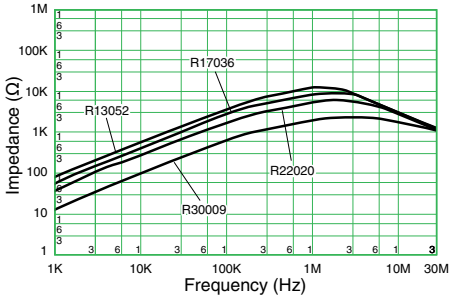












Handling Precautions

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 indicted or that other measures may not be required.

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