NOT FOR NEW DESIGN

Common Mode SS Coils, 20H Series

Overview

The KEMET SS Coils, SS20H 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 66 mH
- Rated Currents up to 2 A
- DC Resistances as low as 0.11 Ω

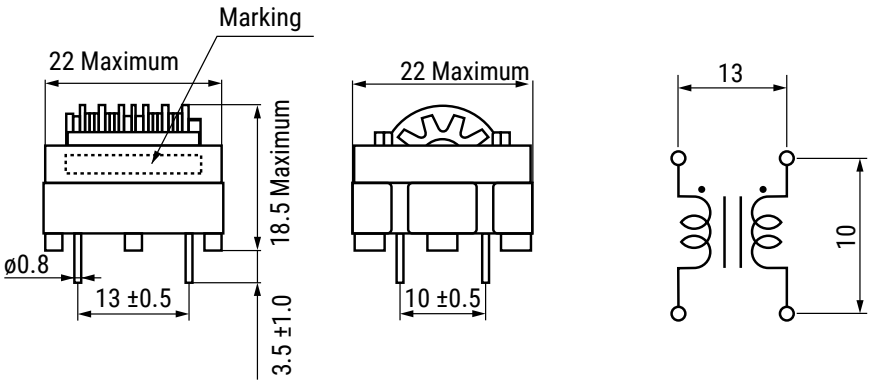


Part Number System

SS	20	H-	R	03	660
Series	Core Size (mm)	Core Orientation	Core Type	Rated Current AC (A)	Inductance (mH) Minimum
SS	20 = 20.0 mm	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: 660 = 66 mH 052 = 5.2 mH

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Dimensions – Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.

RoHS

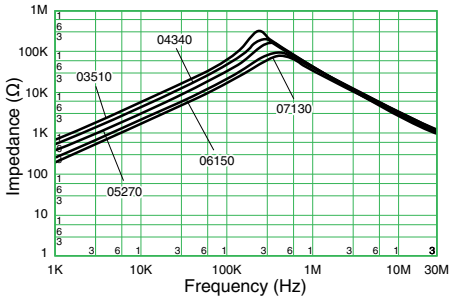
Table 1 – Ratings & Part Number Reference

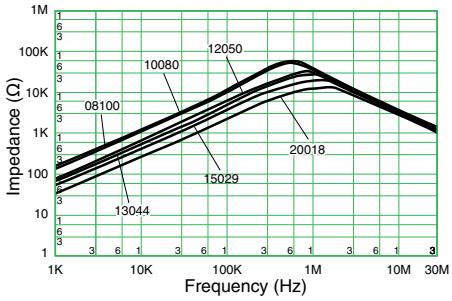
Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SS20H-03510	0.3	51.0	3.20	45	03 Lot No.	12.0
SS20H-04340	0.4	34.0	2.00	45	04 Lot No.	12.0
SS20H-05270	0.5	27.0	1.50	45	05 Lot No.	12.0
SS20H-06150	0.6	15.0	0.93	45	06 Lot No.	12.0
SS20H-07130	0.7	13.0	0.75	45	07 Lot No.	12.0
SS20H-08100	0.8	10.0	0.66	45	08 Lot No.	12.0
SS20H-10080	1.0	8.0	0.42	45	10 Lot No.	12.0
SS20H-12050	1.2	5.0	0.36	45	12 Lot No.	12.0
SS20H-13044	1.3	4.4	0.25	45	13 Lot No.	12.0
SS20H-15029	1.5	2.9	0.19	45	15 Lot No.	12.0
SS20H-20018	2.0	1.8	0.11	45	20 Lot No.	12.0
SS20H-R03660	0.3	66.0	3.20	45	R03 Lot No.	12.0
SS20H-R04450	0.4	45.0	2.00	45	R04 Lot No.	12.0
SS20H-R05350	0.5	35.0	1.50	45	R05 Lot No.	12.0
SS20H-R06200	0.6	20.0	0.93	45	R06 Lot No.	12.0
SS20H-R07160	0.7	16.0	0.75	45	R07 Lot No.	12.0
SS20H-R08125	0.8	12.5	0.66	45	R08 Lot No.	12.0
SS20H-R10100	1.0	10.0	0.42	45	R10 Lot No.	12.0
SS20H-R12063	1.2	6.3	0.36	45	R12 Lot No.	12.0
SS20H-R13052	1.3	5.2	0.25	45	R13 Lot No.	12.0
SS20H-R15033	1.5	3.3	0.19	45	R15 Lot No.	12.0
SS20H-R20023	2.0	2.3	0.11	45	R20 Lot No.	12.0

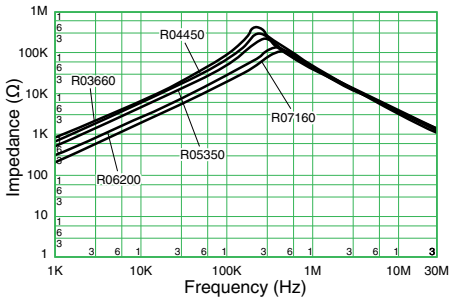
Specifications

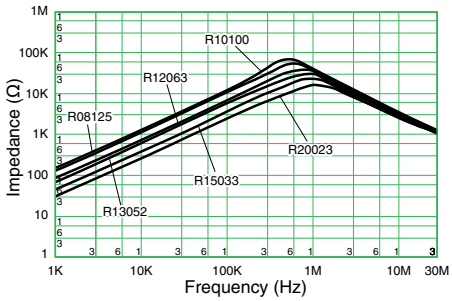
Item	SS20H
Rated Voltage	250 VAC
Withstanding Voltage	2,400 VAC (2 seconds, between lines)
Insulation Resistance	> 100 MΩ at 500 VDC (between lines)
Rated Current AC Range	0.3 – 2.0 A
Rated Inductance Range	1.8 – 66.0 mH minimum
Inductance Measurement Condition	1 kHz
Thermal Class	E (120°C)
Operating 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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C315C103K5R5TA7301 C44ASGP4400ZA0J R413I13304000M C0402C102J1GECTU MPX1D0530LR68 C0603C471K4RACTU CGP5C103MGWDAA7301 T356F336K010AT T494X686M025AT MPXV1D0840LR22 SSR21NV-05795 T525B476M006ATE080 ALA7DA221DD600 C0402C106M9PACTU C0603C470J1HACTU C0603C472J5RACTU FT0H225ZF MPXV1D0830L1R0 T520A227M2R5ATE035 C0402C100J5HACAUTO C1210C104K5HACAUTO C0402C222K5RECAUTO C1206C154K5RACTU SBC9-100-422 Z0805C431ASMST C0603C331G5GACTU T495D336K025ATE300 C0603C561JAGACTU C0805C103M5RACTU C1206C105M4RACTU