

## Overview

The KEMET SS Coils, SS30V 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
- High inductance in a compact design
- Pin pitch is identical to SS35V Type and SS28V Type, making design and replacement easier
- Inductances up to 96 mH
- Rated Currents up to 4.5 A
- DC Resistances as low as 0.06  $\Omega$

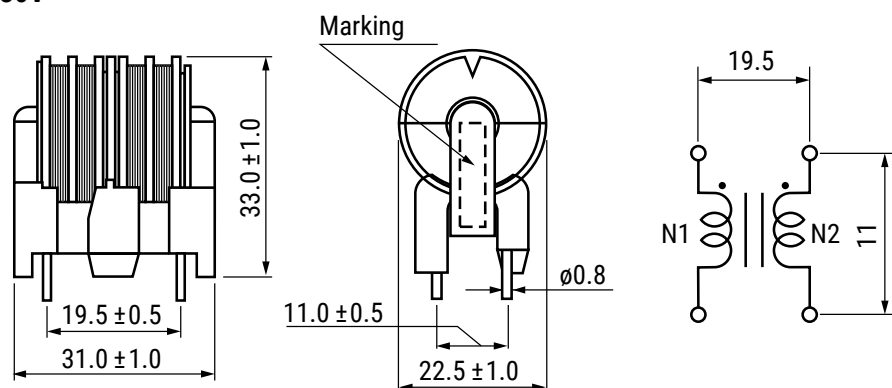


## Part Number System

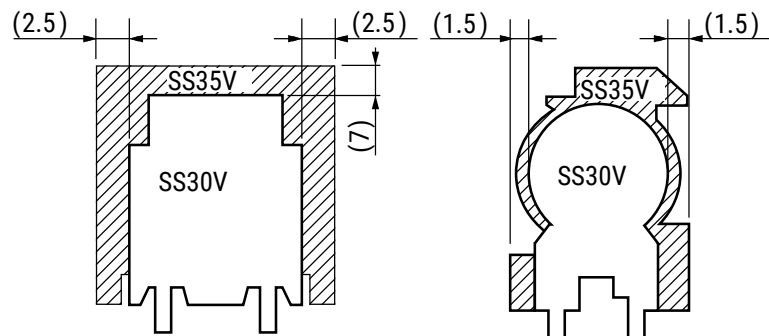
SS	30	V-	R	08	0960
Series	Core Size (mm)	Core Orientation	Core Type	Rated Current (A)	Minimum Inductance (mH)
SS	30 = 30.0	V- = Vertical	Blank = Standard R = High permeability	0x = 0.x A (e.g., 08 = 0.8 A) xx = x.x A (e.g., 25 = 2.5 A)	0xxx = xx mH (e.g., 0960 = 96 mH) 00xx = x.x mH (e.g., 0028 = 2.8 mH)

## Dimensions – Millimeters

### SS30V



### Size Comparison with SS35V Type



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

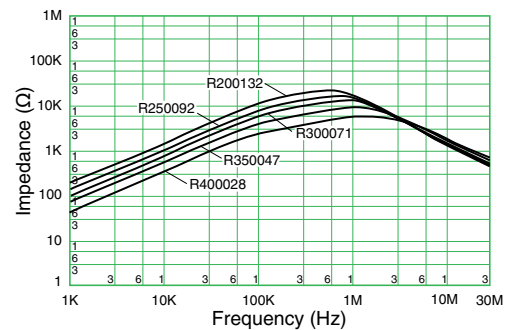
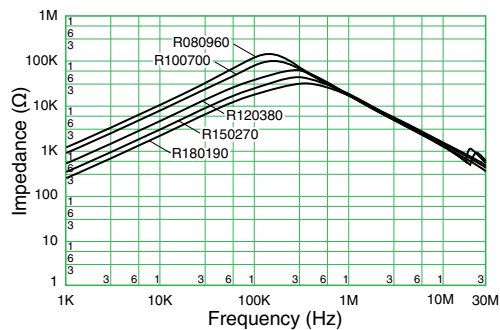
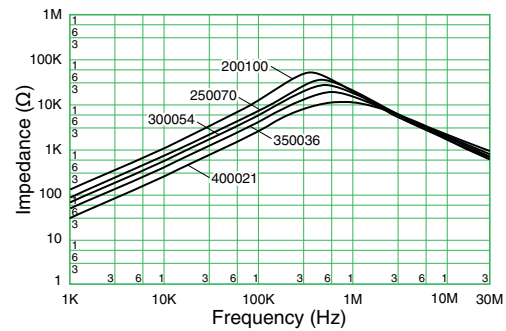
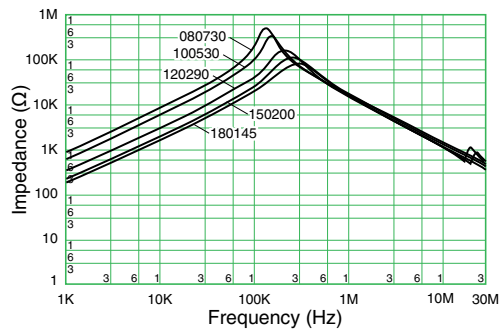
**Table 1 – Ratings & Part Number Reference**

Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line ( $\Omega$ ) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SS30V-080730	0.8	73	1.5	50	08 Lot No.	35.1
SS30V-100530	1.0	53	1.1	50	10 Lot No.	36.8
SS30V-120290	1.2	29	0.6	45	12 Lot No.	35.0
SS30V-150200	1.5	20	0.5	45	15 Lot No.	35.3
SS30V-180145	1.8	14.5	0.23	50	18 Lot No.	35.2
SS30V-200100	2.0	10	0.21	45	20 Lot No.	34.9
SS30V-250070	2.5	7.0	0.16	45	25 Lot No.	34.1
SS30V-300054	3.0	5.4	0.12	45	30 Lot No.	34.6
SS30V-350036	3.5	3.6	0.10	50	35 Lot No.	30.6
SS30V-400021	4.0	2.1	0.07	50	40 Lot No.	29.0
SS30V-450013	4.5	1.3	0.06	50	45 Lot No.	26.1
SS30V-R080960	0.8	96	1.5	50	R08 Lot No.	35.1
SS30V-R100700	1.0	70	1.1	50	R10 Lot No.	36.8
SS30V-R120380	1.2	38	0.6	45	R12 Lot No.	35.0
SS30V-R150270	1.5	27	0.5	45	R15 Lot No.	35.3
SS30V-R180190	1.8	19	0.23	50	R18 Lot No.	35.2
SS30V-R200132	2.0	13.2	0.21	45	R20 Lot No.	34.9
SS30V-R250092	2.5	9.2	0.16	45	R25 Lot No.	34.1
SS30V-R300071	3.0	7.1	0.12	45	R30 Lot No.	34.6
SS30V-R350047	3.5	4.7	0.10	50	R35 Lot No.	30.6
SS30V-R400028	4.0	2.8	0.07	50	R40 Lot No.	29.0
SS30V-R450017	4.5	1.7	0.06	50	R45 Lot No.	26.1

## Specifications

Item	SS30V
Rated Voltage	250 VAC
Withstanding Voltage	2,400 VAC (2 seconds, between lines)
Insulation Resistance	> 100 M $\Omega$ 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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