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Overview

The KEMET SS Coils, SS21V 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 SS24V Type and SS11V Type, making design and replacement easier
- Inductances up to 138 mH
- Rated Currents up to 3 A
- DC Resistances as low as 0.07 Ω

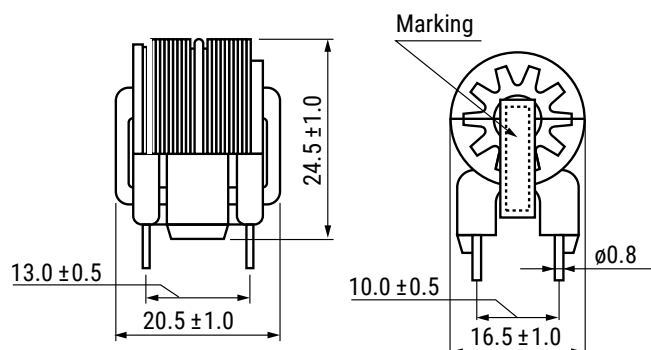


Part Number System

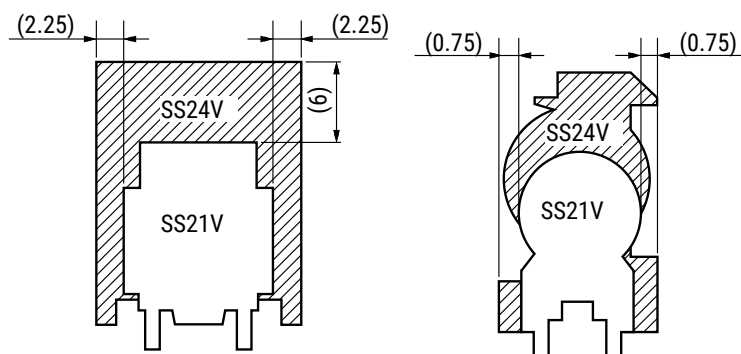
SS	21	V-	R	03	1380
Series	Core Size (mm)	Core Orientation	Core Type	Rated Current (A)	Minimum Inductance (mH)
SS	21 = 21.0	V- = Vertical	Blank = Standard R = High permeability	0x = 0.x A (e.g., 03 = 0.3 A) xx = x.x A (e.g., 13 = 1.3 A)	xxx0 = xxx mH (e.g., 1380 = 138 mH) 0xxx = xx mH (e.g., 0179 = 17.9 mH) 00xx = x.x mH (e.g., 0026 = 2.6 mH) 000x = 0.x mH (e.g., 0008 = 0.8 mH)

Dimensions – Millimeters

SS21V



Size Comparison with SS24V Type



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

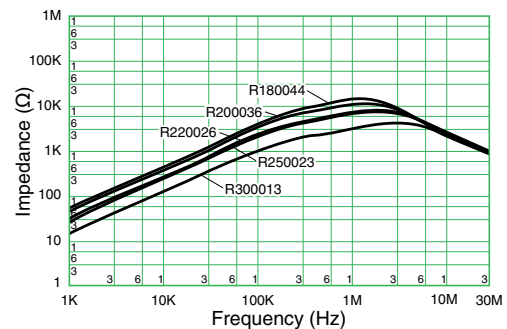
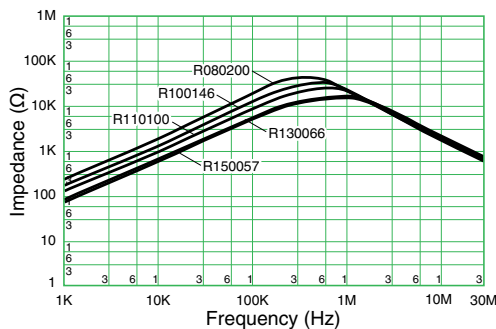
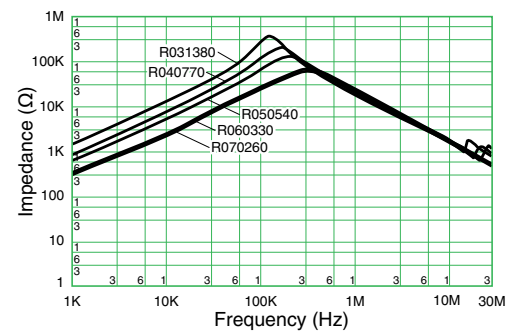
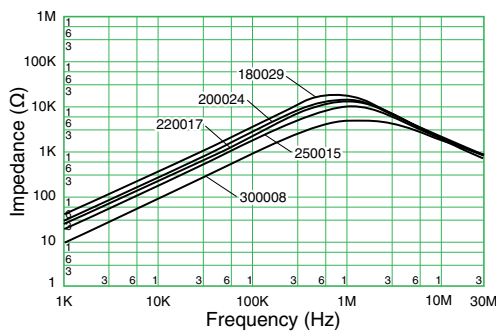
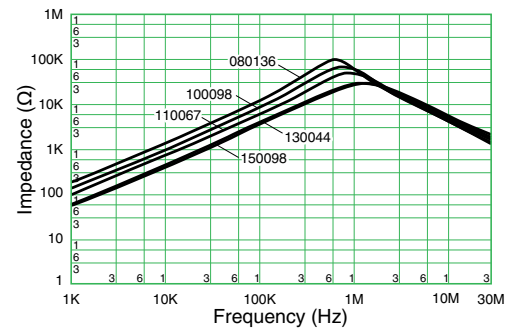
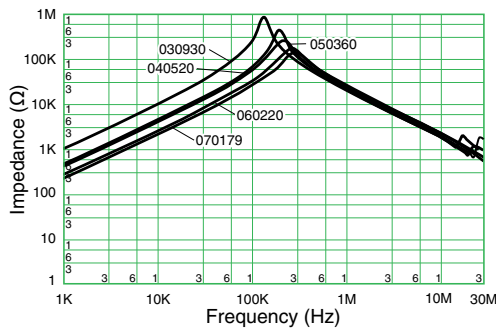
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SS21V-030930	0.3	93	5.9	50	03 Lot No.	12.3
SS21V-040520	0.4	52	5.4	50	04 Lot No.	12.2
SS21V-050360	0.5	36	2.4	50	05 Lot No.	12.2
SS21V-060220	0.6	22	1.5	45	06 Lot No.	12.9
SS21V-070179	0.7	17.9	1.1	50	07 Lot No.	13.2
SS21V-080136	0.8	13.6	0.8	45	08 Lot No.	13.4
SS21V-100098	1.0	9.8	0.6	50	10 Lot No.	13.1
SS21V-110067	1.1	6.7	0.45	45	11 Lot No.	12.8
SS21V-130044	1.3	4.4	0.35	50	13 Lot No.	11.5
SS21V-150038	1.5	3.8	0.30	50	15 Lot No.	12.4
SS21V-180029	1.8	2.9	0.20	45	18 Lot No.	13.3
SS21V-200024	2.0	2.4	0.15	50	20 Lot No.	12.6
SS21V-220017	2.2	1.7	0.13	45	22 Lot No.	12.7
SS21V-250015	2.5	1.5	0.10	50	25 Lot No.	12.3
SS21V-300008	3.0	0.8	0.07	50	30 Lot No.	11.7
SS21V-R031380	0.3	138	5.9	50	R03 Lot No.	12.3
SS21V-R040770	0.4	77	5.4	50	R04 Lot No.	12.2
SS21V-R050540	0.5	54	2.4	50	R05 Lot No.	12.2
SS21V-R060330	0.6	33	1.5	45	R06 Lot No.	12.9
SS21V-R070260	0.7	26	1.1	50	R07 Lot No.	13.2
SS21V-R080200	0.8	20	0.8	45	R08 Lot No.	13.4
SS21V-R100146	1.0	14.6	0.6	50	R10 Lot No.	13.1
SS21V-R110100	1.1	10	0.45	45	R11 Lot No.	12.8
SS21V-R130066	1.3	6.6	0.35	50	R13 Lot No.	11.5
SS21V-R150057	1.5	5.7	0.30	50	R15 Lot No.	12.4
SS21V-R180044	1.8	4.4	0.20	45	R18 Lot No.	13.3
SS21V-R200036	2.0	3.6	0.15	50	R20 Lot No.	12.6
SS21V-R220026	2.2	2.6	0.13	45	R22 Lot No.	12.7
SS21V-R250023	2.5	2.3	0.10	50	R25 Lot No.	12.3
SS21V-R300013	3.0	1.3	0.07	50	R30 Lot No.	11.7

Specifications

Item	SS21V
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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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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