SC Coils, SC-G/GS Small Type

Overview

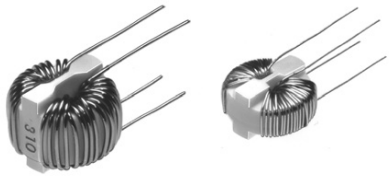
The KEMET SC Coils, SC-G/GS Small Type AC line filters are offered in a wide variety of sizes and specifications.

Applications

- Consumer Electronics
- Common mode choke

Benefits

- Wide variety of sizes and specifications
- Inductances up to 2.0 mH
- Rated Currents up to 20 A
- DC Resistances as low as 8 mΩ

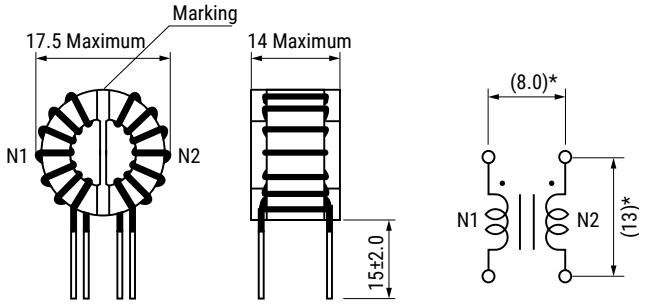


Part Number System

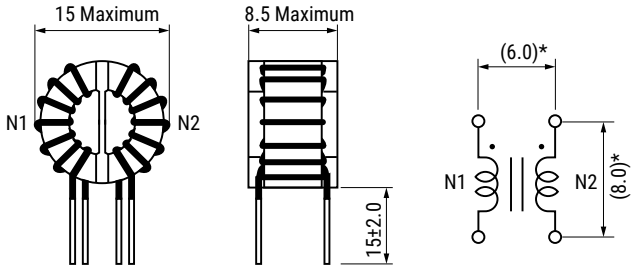
SC-	01-	E	150	G
Series	Rated Current (A)	Thermal Class	Minimum Inductance (mH)	Terminal Base Type
SC-	0x- = x A (e.g., 02- = 2 A)	Blank = Class A E = Class E	0x = 0.x mH (e.g., 06 = 0.6 mH) x0 = x.0 mH (e.g., 20 = 2.0 mH) x00 = x0.0 mH (e.g., 100 = 10.0 mH) xx0 = xx.0 mH (e.g., 150 = 15.0 mH) Note: Code 121 = 12.0 mH	G GS

Dimensions – Millimeters

SC-G



SC-GS



**Pin pitch values are for reference only. Values are not guaranteed.*

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.

RoHS Compliant

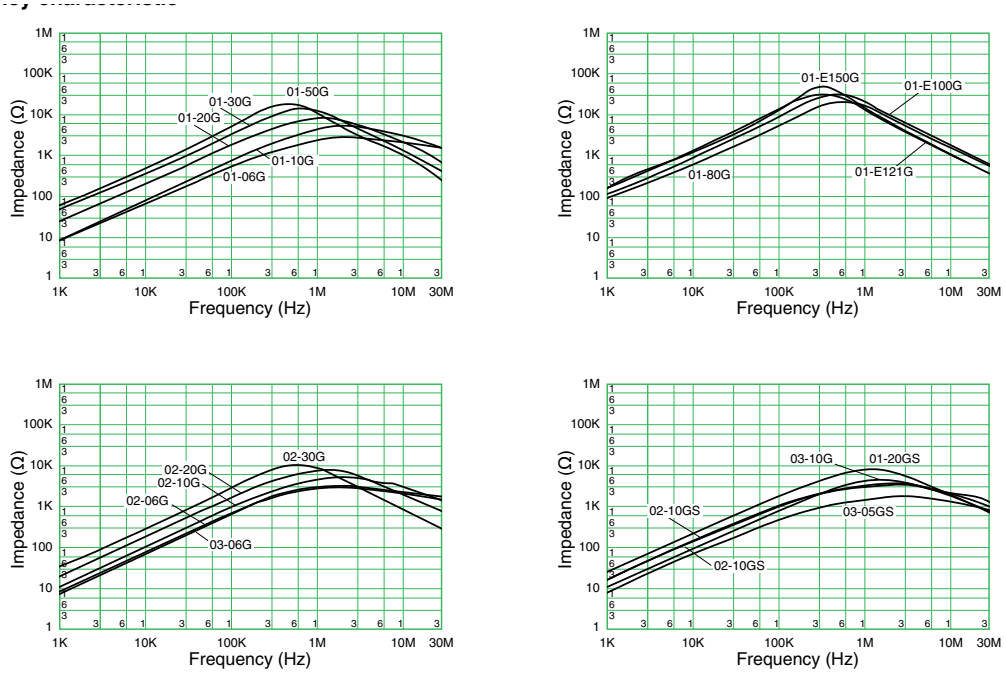
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Marking	Temperature Class	Weight (g) Approximate
SC-01-06G	1	0.6	60	40	0.4	106	A (105°C)	5
SC-01-10G	1	1.0	70	40	0.4	110	A (105°C)	5
SC-01-20G	1	2.0	100	40	0.4	120	A (105°C)	5
SC-01-30G	1	3.0	120	40	0.4	130	A (105°C)	6
SC-01-50G	1	5.0	150	40	0.4	150	A (105°C)	7
SC-01-80G	1	8.0	300	40	0.35	180	A (105°C)	6
SC-01-E100G	1	10.0	350	40	0.35	100	E (120°C)	6
SC-01-E121G	1	12.0	400	40	0.35	121	E (120°C)	6
SC-01-E150G	1	15.0	450	40	0.35	–	E (120°C)	6
SC-02-06G	2	0.6	50	40	0.5	206	A (105°C)	6
SC-02-10G	2	1.0	50	40	0.5	210	A (105°C)	7
SC-02-20G	2	2.0	70	40	0.5	220	A (105°C)	8
SC-02-30G	2	3.0	85	40	0.5	230	A (105°C)	9
SC-03-06G	3	0.6	30	40	0.6	306	A (105°C)	7
SC-03-10G	3	1.0	35	40	0.6	310	A (105°C)	8
SC-01-10GS	1	1.0	130	40	0.3	–	A (105°C)	2
SC-01-20GS	1	2.0	180	40	0.3	–	A (105°C)	2
SC-02-10GS	2	1.0	80	40	0.4	–	A (105°C)	3
SC-03-05GS	3	0.5	45	45	0.45	–	A (105°C)	3

Specifications

Item	SC-G/GS
Rated Voltage	250 VAC/VDC
Withstanding Voltage	2,400 V (2 seconds, between lines)
Insulation Resistance	> 100 MΩ at 500 VDC (between lines)
Thermal Class	A (105°C) or E (120°C), see Table 1 footnotes
Operating Temperature Range	−25°C to T T = 105 – temperature rise (Thermal Class A) T = 120 – temperature rise (Thermal Class E)
Inductance Measurement Condition	100 kHz, 1 mA, KC547

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 indicted or that other measures may not be required.