

Overview

The KEMET SCR47 Type AC line filters feature high inductance and high impedance characteristics.

Applications

- Power Conditioner
- Air Conditioner
- Common mode choke

Benefits

- High inductance and high impedance characteristics support large electrical currents.
- Industry's highest standard, high permeability core.
- Inductances up to 1.6 mH
- Rated Currents up to 40 A
- DC Resistances as low as 1.8 mΩ



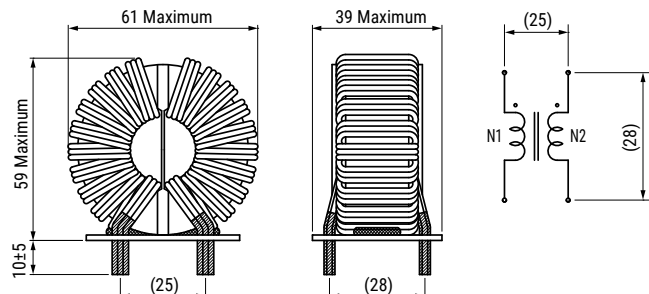
Part Number System

SCR47-	400-	1R9	B	008	JH
Type	Rated Current AC (A)	Wire Diameter (mm)	Windings	Minimum Inductance (mH)	Orientation
SCR47-	350- = 35.0 400- = 40.0	1R6 = 1.6 1R9 = 1.9	C = Triple	008 = 0.8 016 = 1.6	J = Vertical JH = Horizontal

Dimensions – Millimeters

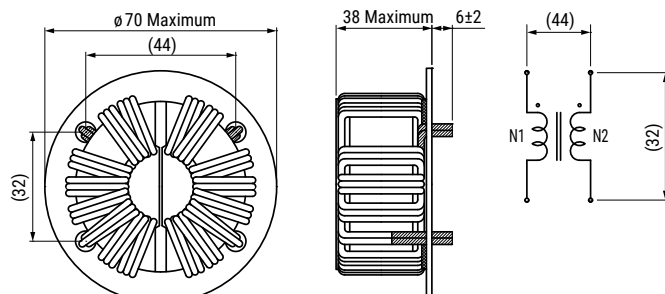
J-Type

SCR47-350-1R6C016J



JH-Type

SCR47-400-1R9C008JH



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

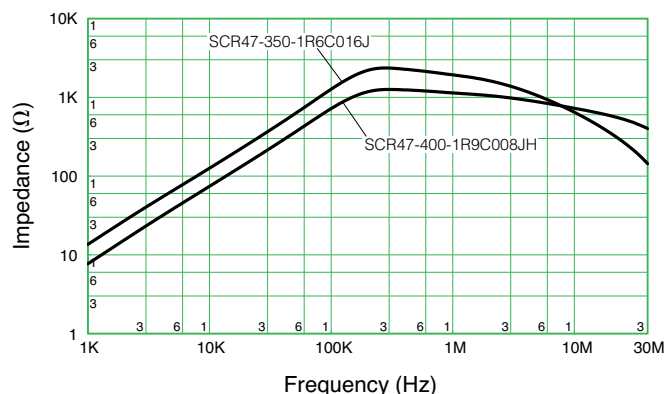
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (mH) Minimum	DC Resistance/ Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Weight (g) Approximate
SCR47-350-1R6C016J	35	1.6	3.5	70	1.6 x 3P	200
SCR47-400-1R9C008JH	40	0.8	1.8	50	1.9 x 3P	230

Specifications

Item	SCR47
Rated Voltage	250 VAC/VDC
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	10 kHz, 1 mA

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 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.