

## Overview

The KEMET SC Coils, SC-JV Terminal Base Type AC line filters are offered in a wide variety of sizes and specifications.

## Applications

- Consumer Electronics
- Common mode choke

## Benefits

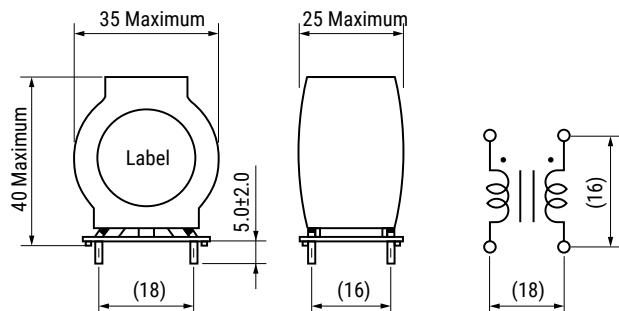
- Wide variety of sizes and specifications
- Inductances up to 44 mH
- Rated Currents up to 5 A
- DC Resistances as low as 100 mΩ



## Part Number System

| SC-    | 02-                         | 300  | JV                 |
|--------|-----------------------------|--|--------------------|
| Series | Rated Current (A)           | Minimum Inductance (mH)  | Terminal Base Type |
| SC-    | 0x- = x A (e.g., 02- = 2 A) | 100 = 15 mH +50%, -30%<br>200 = 29 mH +50%, -30%<br>300 = 44 mH +50%, -30% | JV                 |

## Dimensions – Millimeters



## Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

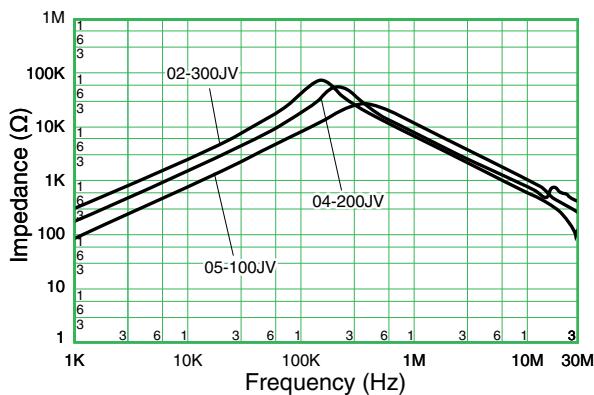
## Table 1 – Ratings & Part Number Reference

| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/ Line (mΩ) Maximum | Temperature Rise (K) Maximum | Wire Diameter (mm) | Recognized By | Weight (g) Approximate |
|-------------|----------------------|-------------------------|----------------------------------|------------------------------|--------------------|---------------|------------------------|
| SC-02-300JV | 2                    | 44+50%, -30%            | 300                              | 45                           | 0.6                | VDE           | 45                     |
| SC-04-200JV | 4                    | 29+50%, -30%            | 150                              | 55                           | 0.8                | VDE           | 45                     |
| SC-05-100JV | 5                    | 15+50%, -30%            | 100                              | 55                           | 0.9                | VDE           | 45                     |

## Specifications

| Item                             | SC-JV   |
|----------------------------------|---|
| Rated Voltage                    | 250 VAC/VDC   |
| Withstanding Voltage             | 2,400 VAC (2 seconds, between lines)                  |
| Insulation Resistance            | > 50 MΩ at 500 VDC (between lines, from line to tube) |
| Thermal Class                    | A (105°C)   |
| Operating Temperature Range      | -25°C to T (T = 105 – temperature rise)               |
| Inductance Measurement Condition | 16 kHz, 0.2 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 indicated or that other measures may not be required.