

Overview

The KEMET SU Coils, SU 9VF/9HF 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 10 mH
- Rated Currents up to 0.7 A
- DC Resistances as low as 0.44 Ω

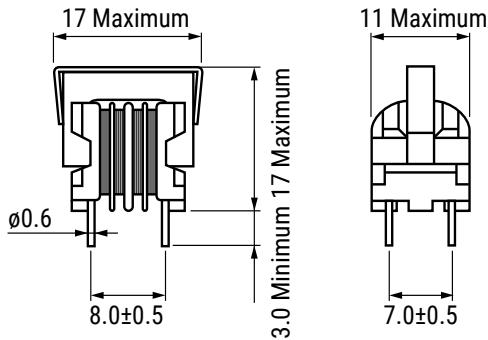


Part Number System

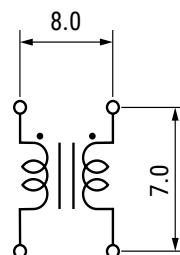
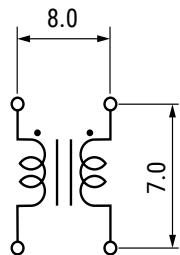
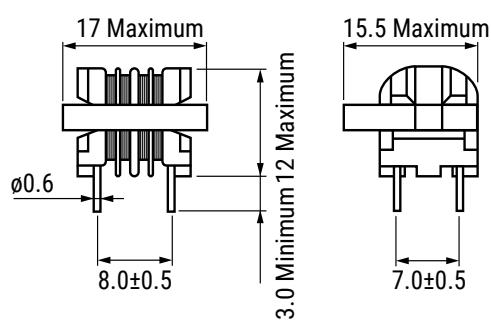
| SU | 9 | VF- | 02 | 100 |
|--------|----------------|------------------------------------|-------------------------------|--|
| Series | Core Size (mm) | Core Orientation | Rated Current (A) | Minimum Inductance (mH) |
| SU | 9 = 9.0 | VF- = Vertical HF- = Horizontal | 0x = 0.x A (e.g., 02 = 0.2 A) | xx0 = xx mH (e.g., 100 = 10 mH) 0xx = x.x mH (e.g., 060 = 6.0 mH) |

Dimensions – Millimeters

SU9VF



SU9HF



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings & Part Number Reference

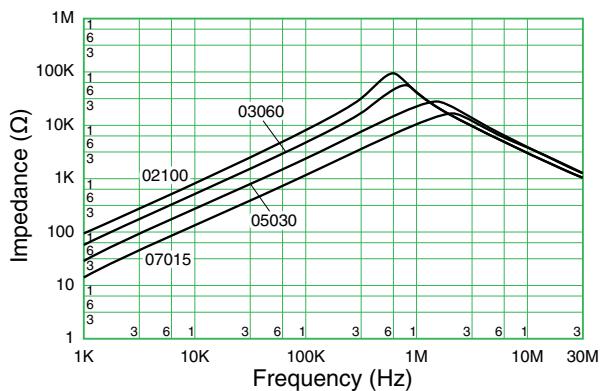
| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/Line (Ω) Maximum | Temperature Rise (K) Maximum | Marking | Weight (g) Approximate |
|--------------|----------------------|-------------------------|--------------------------------|------------------------------|---------|------------------------|
| SU9(1)-02100 | 0.2 | 10 | 4.0 | 40 | 02100 | 3.1 |
| SU9(1)-03060 | 0.3 | 6.0 | 2.0 | 40 | 03060 | 3.2 |
| SU9(1)-05030 | 0.5 | 3.0 | 1.0 | 45 | 05030 | 3.2 |
| SU9(1)-07015 | 0.7 | 1.5 | 0.44 | 40 | 07015 | 3.3 |

(1) To complete KEMET part number, insert VF for vertical core type or HF for horizontal core type.

Specifications

| Item | SU 9VF/9HF |
|----------------------------------|---|
| 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.