SU Coils, SU 10VFC-R Type



Overview

The KEMET SU Coils, SU 10VFC-R 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
- Super low profile: 15.0 mm maximum
- Inductances up to 37 mH
- Rated Currents up to 2.0 A
- DC Resistances as low as 0.15 Ω

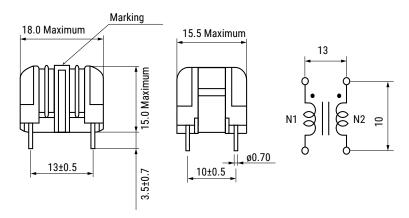


Part Number System

| SU | 10 | VFC- | R | 03 | 370 |
|--------|----------------|------------------|---|--|--|
| Series | Core Size (mm) | Core Orientation | Core Type | Rated Current (A) | Minimum Inductance (mH) |
| SU | 10 = 10.0 | VFC- = Vertical | Blank = Standard R = High permeability | 0x = 0.x A (e.g., 03 = 0.3 A) xx = x.x A (e.g., 15 = 1.5 A) | xx0 = xx mH (e.g., 370 = 37 mH) 0xx = x.x mH (e.g., 025 = 2.5 mH) |



Dimensions - Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



Table 1 - Ratings & Part Number Reference

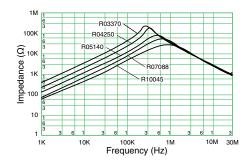
| Part Number | Rated Current AC (A) | Inductance (mH) Minimum | DC Resistance/ Line (Ω) Maximum | Temperature Rise (K) Maximum | Marking | Weight (g) Approximate |
|----------------|-------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------|---------------------------|
| SU10VFC-R03370 | 0.3 | 37 | 4.2 | 45 | R03 Lot No. | 6.5 |
| SU10VFC-R04250 | 0.4 | 25 | 2.8 | 45 | R04 Lot No. | 6.5 |
| SU10VFC-R05140 | 0.5 | 14 | 1.6 | 45 | R05 Lot No. | 6.4 |
| SU10VFC-R07088 | 0.7 | 8.8 | 1.1 | 50 | R07 Lot No. | 6.3 |
| SU10VFC-R10045 | 1.0 | 4.5 | 0.55 | 50 | R10 Lot No. | 6.4 |
| SU10VFC-R13025 | 1.3 | 2.5 | 0.30 | 50 | R13 Lot No. | 6.6 |
| SU10VFC-R15019 | 1.5 | 1.9 | 0.24 | 50 | R15 Lot No. | 6.5 |
| SU10VFC-R17016 | 1.7 | 1.6 | 0.21 | 55 | R17 Lot No. | 6.2 |
| SU10VFC-R20010 | 2.0 | 1.0 | 0.15 | 55 | R20 Lot No. | 6.2 |

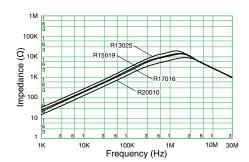


Specifications

| Item | SU 10VFC-R | | |
|----------------------------------|---|--|--|
| 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 indicted or that other measures may not be required.