

Overview

The KEMET SU Coils, SU 16VD High Frequency Type AC line filters are offered in a wide variety of sizes and specifications.

Applications

- Consumer Electronics
- Common mode choke

Benefits

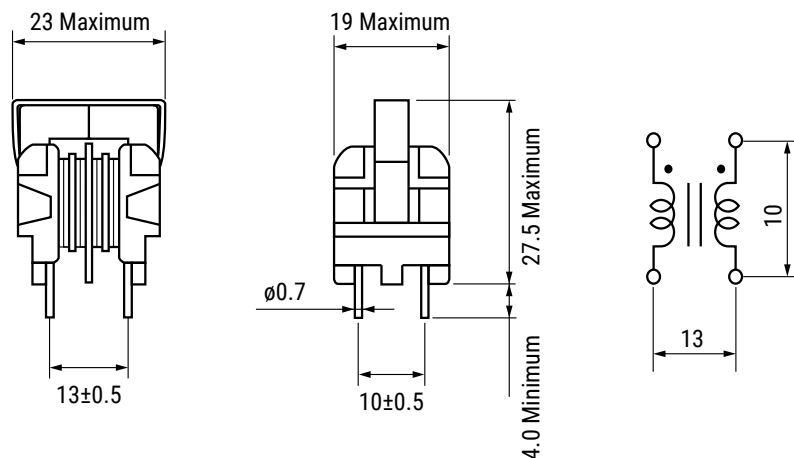
- Wide variety of sizes and specifications
- Inductances up to 50 μH
- Rated Currents up to 4 A
- DC Resistances as low as 0.04 Ω



Part Number System

SU	16	VD-	30	040
Series	Core Size (mm)	Core Orientation	Rated Current (A)	Minimum Inductance (μH)
SU	16 = 16.0	VD- = Vertical	x0 = x.0 A (e.g., 30 = 3.0 A)	0xx = xx μH (e.g., 040 = 40 μH)

Dimensions – Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

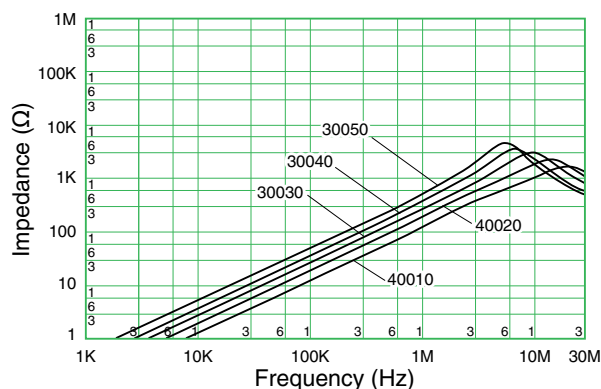
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (μ H) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SU16VD-30050	3.0	50	0.08	45	D30050	12.0
SU16VD-30040	3.0	40	0.07	45	D30040	11.9
SU16VD-30030	3.0	30	0.07	45	D30030	11.9
SU16VD-40020	4.0	20	0.05	45	D40020	11.8
SU16VD-40010	4.0	10	0.04	45	D40010	11.6

Specifications

Item	SU 16VD
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.