

Overview

The KEMET SU Coils, SU 9VD High Frequency Type AC line filters are offered in a wide variety of sizes and specifications.

Applications

- Consumer Electronics
- Common mode choke

Benefits

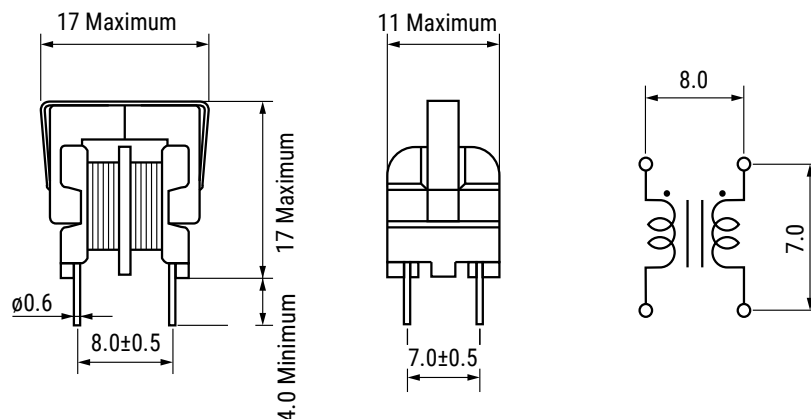
- Wide variety of sizes and specifications
- Inductances up to 40 μH
- Rated Currents up to 0.7 A
- DC Resistances as low as 0.10 Ω



Part Number System

SU	9	VD-	07	030
Series	Core Size (mm)	Core Orientation	Rated Current (A)	Minimum Inductance (μH)
SU	9 = 9.0	VD- = Vertical	0x = 0.x A (e.g., 07 = 0.7 A)	0xx = xx μH (e.g., 030 = 30 μH)

Dimensions – Millimeters



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

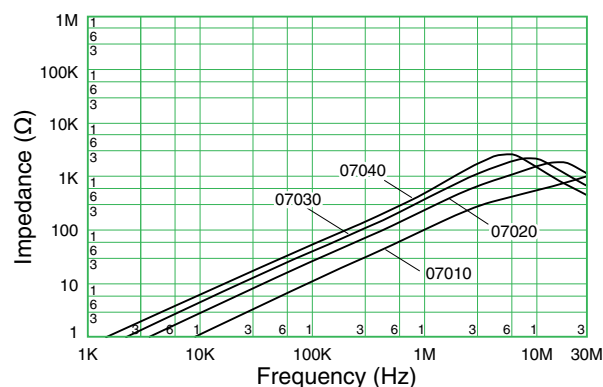
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current AC (A)	Inductance (μ H) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SU9VD-07040	0.7	40	0.18	45	D07040	2.9
SU9VD-07030	0.7	30	0.15	45	D07030	2.9
SU9VD-07020	0.7	20	0.12	45	D07020	2.8
SU9VD-07010	0.7	10	0.10	45	D07010	2.7

Specifications

Item	SU 9VD
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.