# AC Line Filters SU Coils, SU 9VD High Frequency Type



#### **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  $\boldsymbol{\Omega}$

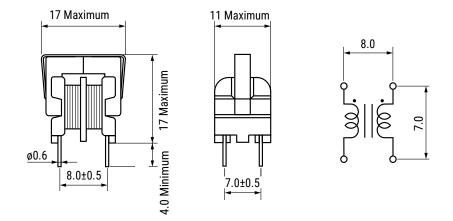


#### **Part Number System**

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.



# Table 1 – Ratings & Part Number Reference

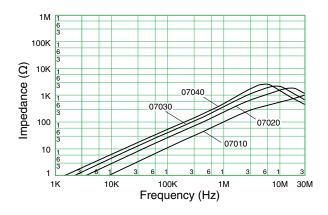
Part Number	Rated Current AC (A)	Inductance (µH) Minimum	DC Resistance/ Line (Ω) Maximum	Temperature Rise (K) Maximum	Marking	Weight (g) Approximate
SU9VD-07040	0.7	40	0.18	45	D07040	2.9
SU9VD-07030	0.7	30	0.15	45	D07030	2.9
SU9VD-07020	0.7	20	0.12	45	D07020	2.8
SU9VD-07010	0.7	10	0.10	45	D07010	2.7



# **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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