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# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







# **SC Coils, SC-D High Frequency Type**



#### **Overview**

The KEMET SC Coils, SC-D 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 100 μH
- Rated Currents up to 20 A
- DC Resistances as low as 8  $m\Omega$



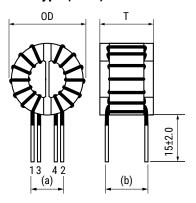
# **Part Number System**

SC-	10-	D	050	
Series	Rated Current (A)	Туре	Minimum Inductance (µH)	
SC-	0x = x A (e.g., 05 = 5 A) xx = xx A (e.g., 10 = 10 A)	D = Ni-Zn ferrite core, high frequency	xxx = xxx μH (e.g., 100 = 100 μH) 0xx = xx μH (e.g., 060 = 60 μH)	

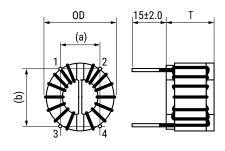


#### **Dimensions - Millimeters**

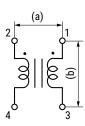
### Vertical Type (≤ 5 A)



### Horizontal Type (≥ 8 A)



### **Mounting Pitch**



## **Environmental Compliance**

All KEMET AC Line Filters are RoHS Compliant.



# Table 1 - Ratings & Part Number Reference

Part Number	Rated Current	(μΗ)	Resistance/ Line (m0) Rise (K)		Dimension	nensions (mm) (		Pitch <sup>1</sup> ence)	Wire Diameter	Weight (g) Approximate
	AC (A)	Minimum	Maximum	Maximum	OD (Maximum)	(Maximum)	а	b	(mm)	
SC-02-D100	2	100	70	40	23	13	10	13	0.5	7
SC-03-D050	3	50	40	40	23	13	10	13	0.6	8
SC-04-D050	4	50	25	40	25	19	10	19	0.7	14
SC-05-D030	5	30	20	40	25	19	10	19	0.8	14
SC-08-D060	8	60	30	45	34	23	22	21	1.0	30
SC-10-D050	10	50	16	45	34	23	22	21	1.2	34
SC-15-D030	15	30	12	50	34	23	22	21	1.4	34
SC-20-D010	20	10	8	50	34	23	22	21	1.7	33

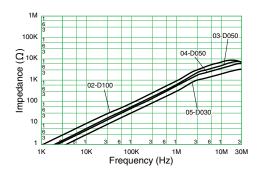
<sup>&</sup>lt;sup>1</sup> Pin pitch listed above for reference only. Values not guaranteed.

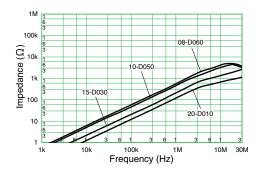


### **Specifications**

Item	SC-D			
Rated Voltage	250 VAC/VDC			
Withstanding Voltage	2,400 V (2 seconds, between lines)			
Insulation Resistance	> 100 MΩ at 500 VDC (between lines)			
Thermal Class	A (105°C)			
Operating Temperature Range	-25°C to T (T = 105 – temperature rise)			
Inductance Measurement Condition	100 kHz, 1 mA, KC547			

## **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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