SC Coils, SC-D High Frequency Type



Overview

The KEMET SC Coils, SC-D High Frequency Type AC line flters 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 $m\Omega$



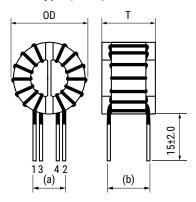
Part Number System

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)	

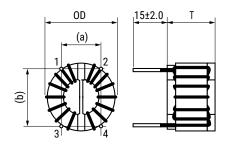


Dimensions - Millimeters

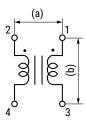
Vertical Type (≤ 5 A)



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	(µH)	DC Resistance/ Line (mΩ)		Finis Dimensio			Wire Diameter	Weight (g) Approximate	
	AC (A)	Minimum	Maximum	waximum	OD (Maximum)	T (Maximum)	а	b	(mm)	Approximate
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

¹ 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



KEMET Electronics Corporation Sales Offices

For a complete list of our global sales o ces, please visit www.kemet.com/sales.

Disclaimer

All product specifications, statements, information and data (collectively, the "Information") in this datasheet are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed.

All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Statements of suitability for certain applications are based on KEMET Electronics Corporation's ("KEMET") knowledge of typical operating conditions for such applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by KEMET with reference to the use of KEMET's products is given gratis, and KEMET assumes no obligation or liability for the advice given or results obtained.

Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

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.