

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 μ H
- Rated Currents up to 20 A
- DC Resistances as low as 8 m Ω

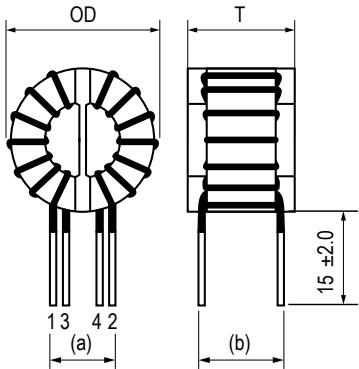


Part Number System

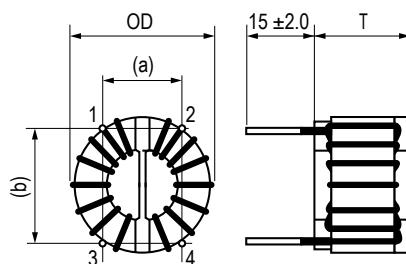
SC-	10-	D	050
Series	Rated Current (A)	Type	Minimum Inductance (μ H)
SC-	0x = x A (e.g., 05 = 5 A) xx = xx A (e.g., 10 = 10 A)	D = Ni-Zn ferrite core, high frequency	xxx = xxx μ H (e.g., 100 = 100 μ H) 0xx = xx μ H (e.g., 060 = 60 μ H)

Dimensions – Millimeters

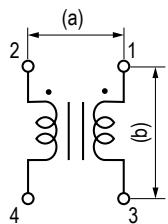
Vertical Type (≤ 5 A)



Horizontal Type (≥ 8 A)



Mounting Pitch



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings & Part Number Reference

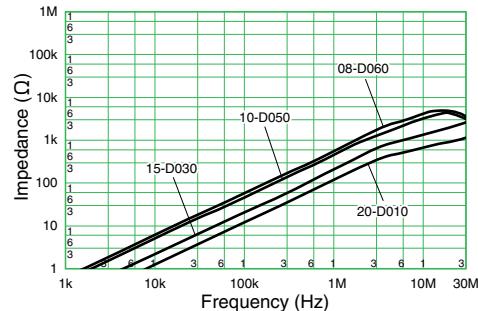
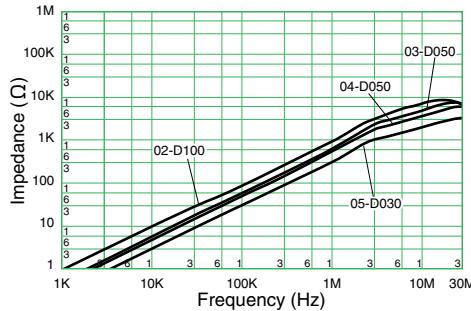
Part Number	Rated Current AC (A)	Inductance (μH) Minimum	DC Resistance/Line (mΩ) Maximum	Temperature Rise (K) Maximum	Finished Dimensions (mm)		Pin Pitch ¹ (reference)		Wire Diameter (mm)	Weight (g) Approximate
					OD (Maximum)	T (Maximum)	a	b		
SC-02-D100	2	100	70	40	23	13	10	13	0.5	7
SC-03-D050	3	50	40	40	23	13	10	13	0.5	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	2400 V (2 seconds, between lines)
Insulation Resistance	> 100 MΩ @ 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.

KEMET Corporation World Headquarters

2835 KEMET Way
Simpsonville, SC 29681

Mailing Address:
P.O. Box 5928
Greenville, SC 29606

www.kemet.com
Tel: 864-963-6300
Fax: 864-963-6521

Corporate Offices
Fort Lauderdale, FL
Tel: 954-766-2800

North America

Southeast
Lake Mary, FL
Tel: 407-855-8886

Northeast
Wilmington, MA
Tel: 978-658-1663

Central
Novi, MI
Tel: 248-306-9353

West
Milpitas, CA
Tel: 408-433-9950

Mexico
Guadalajara, Jalisco
Tel: 52-33-3123-2141

Europe

Southern Europe
Paris, France
Tel: 33-1-4646-1006

Sasso Marconi, Italy
Tel: 39-051-939111

Central Europe
Landsberg, Germany
Tel: 49-8191-3350800

Kamen, Germany
Tel: 49-2307-438110

Northern Europe
Bishop's Stortford, United Kingdom
Tel: 44-1279-460122

Espoo, Finland
Tel: 358-9-5406-5000

Asia

Northeast Asia
Hong Kong
Tel: 852-2305-1168

Shenzhen, China
Tel: 86-755-2518-1306

Beijing, China
Tel: 86-10-5829-1711

Shanghai, China
Tel: 86-21-6447-0707

Taipei, Taiwan
Tel: 886-2-27528585

Southeast Asia
Singapore
Tel: 65-6586-1900

Penang, Malaysia
Tel: 60-4-6430200

Bangalore, India
Tel: 91-806-53-76817

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