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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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, SCF Compact, High-inductance Type



Overview

The KEMET SC Coils, SCF Compact, High-inductance 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 50 mH
- · Rated Currents up to 15 A
- DC Resistances as low as $5 \text{ m}\Omega$

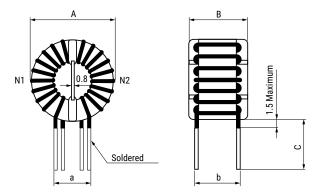


Part Number System

SCF	27	-10	-1300	
Туре	Dimension Code (See Table 1)	Rated Current (A)	Minimum Inductance (mH)	
SCF	Blank 20 25 27	0x = x A (e.g., 02 = 2 A) xx = xx A (e.g., 10 = 10 A)	xx00 = xx mH (e.g., 1300 = 13 mH) xx0 = x.x mH (e.g., 650 = 6.5 mH)	



Dimensions - Millimeters



Mounting Pitch



Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



RoHS Compliant

Table 1 - Ratings & Part Number Reference

Part Number	Rated Current	Inductance (mH)	DC Resistance/ Line (mΩ)		Finished Dimensions (mm)		Pin Pitch ¹ (reference)		Wire Diameter	Weight (g)	
	AC (A)	Minimum	Maximum	Maximum	A (Maximum)	B (Maximum)	C	а	b	(mm)	Approximate
SCF-01-5000 ²	1	50	390.0	60	15.0	12.0	15±2.0	-	-	0.35	5.0
SCF-02-1300 ²	2	13	115.0	50	15.0	12.0	15±2.0	-	-	0.45	5.0
SCF-03-650 ²	3	6.5	70.0	55	15.0	12.0	15±2.0	5	9	0.50	5.0
SCF-05-350 ²	5	3.5	35.0	55	15.5	12.0	15±2.0	5	9	0.60	5.0
SCF20-05-550	5	5.5	28.0	50	25.0	15.5	20±2.5	14	12	0.80	11.4
SCF20-05-1100	5	11	39.0	70	25.0	15.5	20±2.5	14	12	0.80	13.5
SCF25-06-2000	6	20	26.0	45	32.0	23.0	10±2.5	13	20	1.10	41.5
SCF25-08-1300	8	13	18.0	50	32.0	23.0	10±2.5	13	20	1.20	41.0
SCF27-10-1300	10	13	15.0	55	35.0	24.0	15±3.0	24	20	1.30	47.0
SCF27-15-700	15	7	5.0	70	36.0	24.0	15±3.0	24	20	1.50	48.0

 $^{^{\}rm 1}$ Pin pitch listed above for reference only. Values not guaranteed.

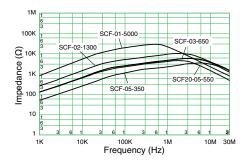
² Insulation distance designed value of \geq 2.6 mm.

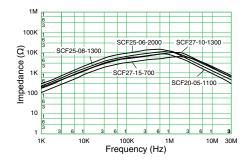


Specifications

Item	SCF			
Rated Voltage	250 VAC/VDC			
Withstanding Voltage	2,400 V (2 seconds, between lines)			
Thermal Class	E (120°C)			
Operating Temperature Range	-25°C to T (T = 120 - temperature rise)			
Inductance Measurement Condition	10 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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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.