Common Mode SC Coils, Standard Series

Overview

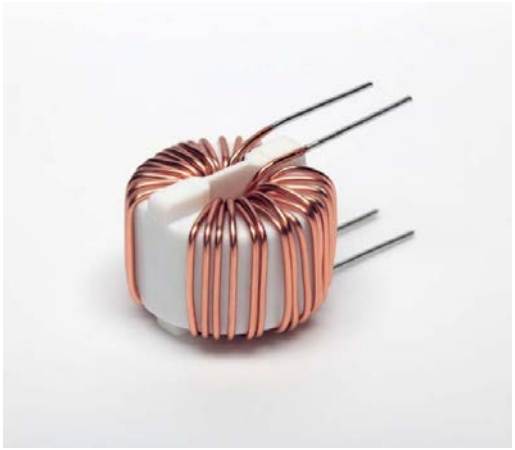
The KEMET SC coils are common mode chokes with a wide variety of characteristics. These toroidal coils are designed with our proprietary ferrite cores and are useful in various noise countermeasure fields.

Applications

- Audio-visual equipment
- Home appliances
- Power supplies

Benefits

- Proprietary 5H, 7H and 10H ferrite material and equivalents
- Suitable for ≥ 150 kHz range
- Wide variety of sizes and specifications
- Operating temperature range from −25°C to +105°C or +120°C
- UL 94 V–2 or V–0 flame retardant rated cap



Part Number System

SC-		10-		200	
Series	Dimension Code (See Dimensions)	Rated Current (A)	Thermal Class	Inductance (mH) Minimum	Internal Control Code
SC	Blank 22	0x = x A x0 = x0 A xx = xx A Examples: 02 = 2 A 10 = 10 A 15 = 15 A Note: With exceptions, see Table 1 for details.	Blank E = Class E Note: With exceptions, see Table 1 for details.	x00 = x mH xx00 = xx mH xx0 = x.xmH Example: 200 = 2 mH 1100 = 11 mH 620 = 6.2 mH Note: With exceptions, see Table 1 for details.	Blank A B H V

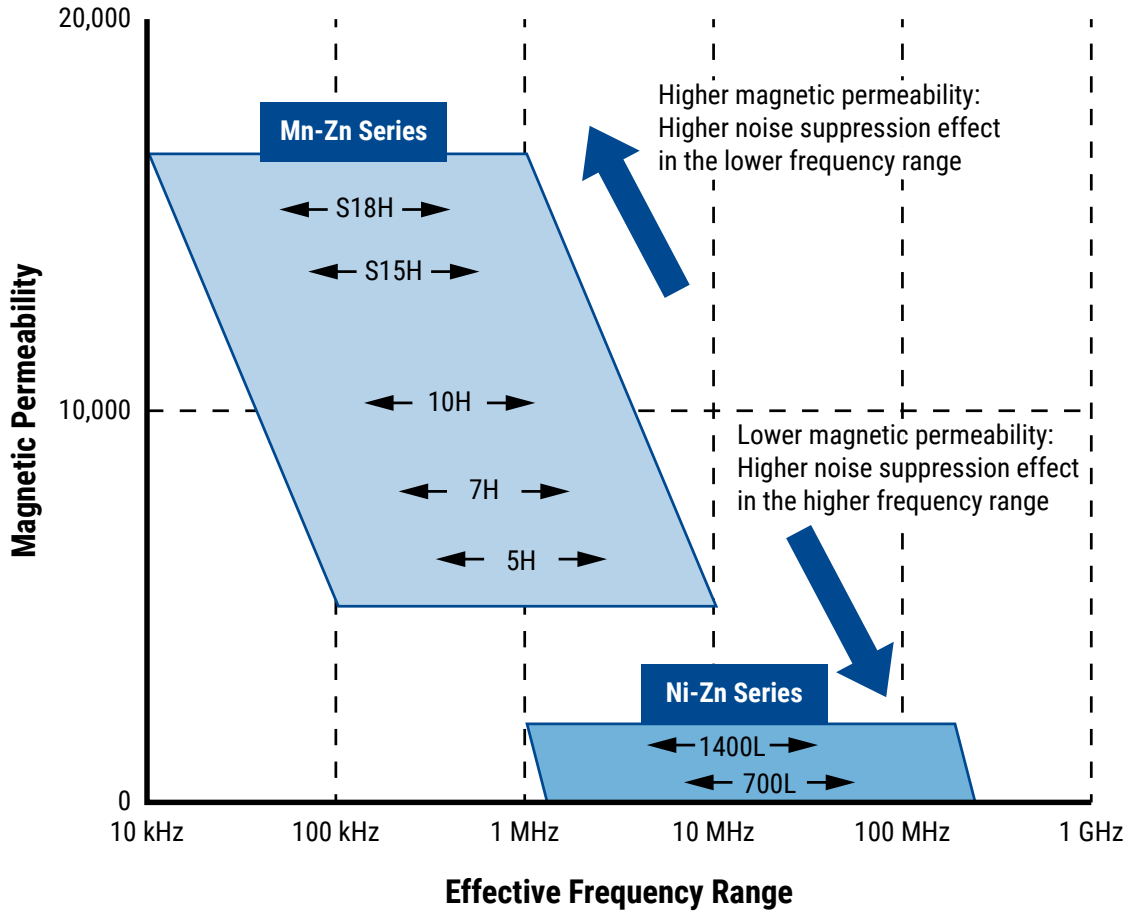
Magnetic Permeability of Ferrite Material

In order to achieve most efficient noise reduction, it is important to select the material according to the target frequency band. Depending on its magnetic permeability, a particular ferrite material will be effective in a certain frequency band. A schematic representation of the relationship between the magnetic permeability of each material and the corresponding effective band range is shown in Figure 1. Materials with higher magnetic permeability are effective in the lower frequency range, while those with lower magnetic permeability are effective in the higher frequency range. Thus, Mn-Zn products are mainly used for reducing conduction noise, while Ni-Zn products are commonly used for radiation noise countermeasures.

The effective frequency range varies depending on core shape, size and number of windings. This frequency dependence of the magnetic permeability as shown in the figure serves for reference purposes only and it should be tested on the actual device to determine its effectiveness.

S18H, S15H, 10H, 7H, 5H, 1400L and 700L are KEMET's proprietary ferrite material names.
Other materials can also be available on request.

Figure 1 - Relationship between the magnetic permeability of each material and its effective frequency range



Dimensions – Millimeters

Figure 1

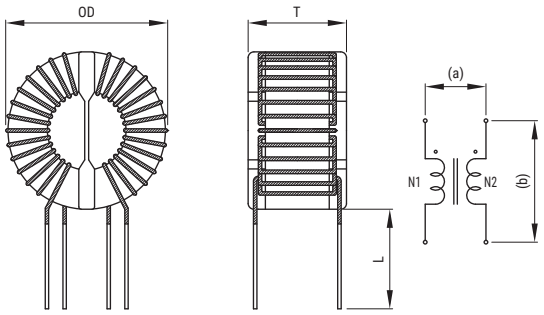
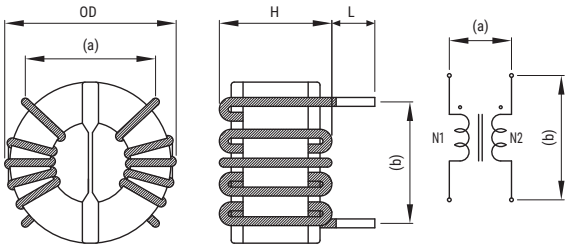


Figure 2



Part Name	Dimensions (mm)				Pin Pitch[1] (Reference)		Figure
	OD (Maximum)	T (Maximum)	H (Maximum)	L	a	b	
SC-02-101	23.0	13.0	-	15.0±2.0	6	11	Fig. 1
SC-02-100	23.0	18.5	-	15.0±2.0	6	17	Fig. 1
SC-02-200	23.0	18.5	-	15.0±2.0	6	17	Fig. 1
SC-02-300	27.0	20.0	-	15.0±2.0	6	17	Fig. 1
SC-02-500	27.0	20.0	-	15.0±2.0	6	17	Fig. 1
SC-02-E620H	27.0	-	20.0	15.0±2.0	15	15	Fig. 2
SC-02-800	34.0	23.0	-	15.0±2.0	7	20	Fig. 1
SC-02-090	26.0	14.5	-	15.0±2.0	6	13	Fig. 1
SC-03-E900	23.5	20.0	-	15.0±2.0	5	15	Fig. 1
SC-04-200	25.0	19.0	-	15.0±2.0	8	16	Fig. 1
SC-04-500	29.0	21.0	-	15.0±2.0	10	19	Fig. 1
SC-05-500	34.0	23.0	-	15.0±2.0	7	21	Fig. 1
SC-05-503	34.0	-	23.0	15.0±2.0	20	20	Fig. 2
SC-05-800	34.0	23.0	-	15.0±2.0	7	21	Fig. 1
SC-05-803	34.0	-	23.0	15.0±2.0	22	21	Fig. 2
SC-04-1600	34.0	23.0	-	15.0±2.0	8	22	Fig. 1
SC-04-E2000	34.0	23.0	-	15.0±2.0	18	18	Fig. 1
SC22-04-95H	30.0	-	19.0	4.0±1.0	10	20	Fig. 2
SC-05-E06H	25.0	-	13.0	5.0±1.0	15	15	Fig. 2
SC-05-100	25.0	18.5	-	15.0±2.0	6	17	Fig. 1
SC-05-103	25.0	-	18.5	15.0±2.0	15	15	Fig. 2
SC-05-200	32.0	22.0	-	15.0±2.0	7	21	Fig. 1
SC-05-203	32.0	-	22.0	15.0±2.0	22	21	Fig. 2
SC-05-300	32.0	22.0	-	15.0±2.0	8	22	Fig. 1
SC-05-1100	34.0	24.0	-	15.0±2.0	6	21	Fig. 1
SC-05-1503	34.0	23.0	-	15.0±2.0	6.5	19	Fig. 1
SC-06-101	25.0	-	19.0	8.0±2.0	10	19	Fig. 2
SC-06-E200H	25.0	-	19.0	8.0±2.0	10	19	Fig. 2
SC-06-900	34.0	24.0	-	15.0±2.0	8	22	Fig. 1
SC-07-030V	25.0	20.0	-	15.0±2.0	10	15	Fig. 1
SC-07-100	25.0	19.0	-	15.0±2.0	10	19	Fig. 1
SC-07-E300A	34.0	-	23.0	4.5±1.0	22	21	Fig. 2
SC-07-650	35.0	23.0	-	15.0±2.0	7	21	Fig. 1
SC22-08-100	30.0	-	19.0	5.0±2.0	14	22	Fig. 2
SC-08-100	35.0	-	23.0	15.0±2.0	22	21	Fig. 2

[1] *Pin pitch listed above for reference only. Values not guaranteed.*

Dimensions – Millimeters cont.

Figure 1

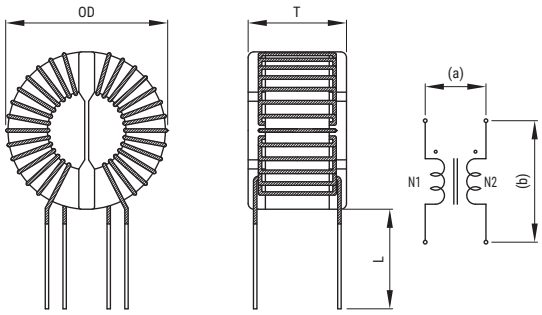
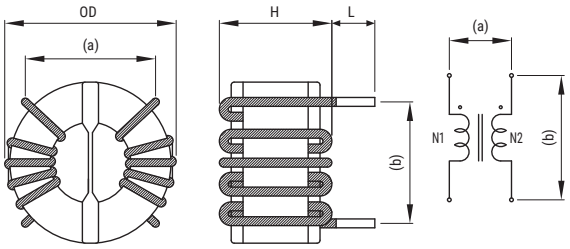


Figure 2



Part Name	Dimensions (mm)				Pin Pitch[1] (Reference)		Figure
	OD (Maximum)	T (Maximum)	H (Maximum)	L	a	b	
SC22-08-170	30.0	-	19.0	5.0±2.0	14	22	Fig. 2
SC-08-170H	34.0	-	23.0	4.5±2.0	22	21	Fig. 2
SC-08-200B	34.0	22.0	-	15.0±2.0	6	19	Fig. 1
SC22-08-260	30.0	-	21.0	10.0±2.0	15	20	Fig. 2
SC-08-440	35.0	23.0	-	15.0±2.0	7	21	Fig. 1
SC-08-700	50.0	30.0	-	15.0±2.0	10	22	Fig. 1
SC-08-1000	50.0	28.0	-	20.0±2.0	10	22	Fig. 1
SC-08-E1000	50.0	28.0	-	20.0±2.0	10	20	Fig. 1
SC-09-1400	49.0	-	40.0	15.0±2.0	35	35	Fig. 2
SC-10-100	34.0	-	24.0	15.0±2.0	22	21	Fig. 2
SC-10-200	47.0	-	27.0	15.0±2.0	30	30	Fig. 2
SC-10-E200H	34.0	-	24.0	5.0±2.0	21	21	Fig. 2
SC-10-340	48.0	29.0	-	30.0±2.0	10	22	Fig. 1
SC-10-500	49.0	-	27.0	15.0±2.0	35	35	Fig. 2
SC-10-1000	57.0	-	30.0	15.0±2.0	20	55	Fig. 2
SC-12-300	49.0	-	28.0	15.0±2.0	35	35	Fig. 2
SC-15-01H	26.0	-	13.5	10.0±2.0	10	20	Fig. 2
SC-15-100	49.0	-	27.0	15.0±2.0	35	35	Fig. 2
SC-15-E110H	36.0	-	25.0	5.0±2.0	22	21	Fig. 2
SC-15-201	49.0	30.0	-	15.0±2.0	10	22	Fig. 1
SC-15-200	50.0	-	28.0	15.0±2.0	35	35	Fig. 2
SC-15-230	50.0	-	30.0	15.0±2.0	35	35	Fig. 2
SC-15-E350	50.0	28.0	-	15.0±2.0	10	20	Fig. 1
SC-15-E350H	50.0	-	28.0	15.0±2.0	20	40	Fig. 2
SC-18-100	34.0	-	23.0	15.0±2.0	22	21	Fig. 2
SC-18-180	50.0	-	30.0	15.0±2.0	35	35	Fig. 2
SC-18-290	40.0	-	28.0	5.0±2.0	17	33	Fig. 2
SC-20-100	60.0	-	30.0	15.0±2.0	40	40	Fig. 2
SC-20-104	52.0	-	31.0	15.0±2.0	20	40	Fig. 2
SC-20-201	49.0	30.0	-	15.0±2.0	10	22	Fig. 1
SC-20-300	63.0	-	35.0	15.0±2.0	20	50	Fig. 2
SC-20-400	63.0	-	35.0	15.0±2.0	20	50	Fig. 2
SC-30-050H	55.0	-	30.0	15.0±2.0	42	18	Fig. 2
SC-30-100	62.0	-	35.0	15.0±2.0	55	20	Fig. 2
SC-30-E100	63.0	-	35.0	4.5±2.5	55	20	Fig. 2

[1] *Pin pitch listed above for reference only. Values not guaranteed.*

Environmental Compliance

All KEMET AC line filters are RoHS Compliant.

Performance Characteristics

Item	Performance Characteristics
Rated Voltage	250 VAC/VDC
Withstanding Voltage	2,400 V (2 seconds, between lines)
Insulation Resistance	> 100 MΩ at 500 VDC (between lines)
Rated Current Range	2 – 30 A
Rated Inductance Range	0.067 – 20.3 mH minimum
Inductance Measurement Condition	1 kHz, 10 kHz, 16 kHz, and 100 kHz
Thermal Class	A (105°C) and E (120°C)
Operating Temperature Range	–25°C to +105°C (include self temperature rise) and –25°C to +120°C (include self temperature rise)

Table 1 – Ratings & Part Number Reference

Part Number	Rated Current (A)	Inductance (mH) Minimum	DC Resistance/ Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Thermal Class	Weight (g) Approximate
SC-02-101	2.0	1.000 [4]	110.0	40	0.60	A (105°C)	15.0
SC-02-100	2.0	1.000 [4]	100.0	40	0.60	A (105°C)	15.0
SC-02-200	2.0	2.000 [4]	110.0	40	0.60	A (105°C)	15.0
SC-02-300	2.0	3.000 [4]	100.0	40	0.60	A (105°C)	16.0
SC-02-500	2.0	5.000 [4]	100.0	45	0.60	A (105°C)	20.0
SC-02-E620H	2.0	6.200 [1]	180.0	40	0.55	E (120°C)	18.5
SC-02-800	2.0	8.000 [4]	150.0	40	0.60	A (105°C)	25.0
SC-02-090	2.0	9.400 [2]	100.0	40	0.65	E (120°C)	14.2
SC-03-E900	3.0	9.000 [2]	130.0	70	0.60	E (120°C)	19.0
SC-04-200	4.0	2.000 [4]	55.0	50	0.70	A (105°C)	17.5
SC-04-500	4.0	5.000 [2]	70.0	50	0.70	A (105°C)	19.0
SC-05-500	4.0	5.000 [4]	80.0	50	0.80	A (105°C)	30.0
SC-05-503	4.0	5.000 [4]	80.0	50	0.80	A (105°C)	32.7
SC-05-800	4.0	8.000 [4]	85.0	60	0.80	A (105°C)	40.0
SC-05-803	4.0	8.000 [4]	90.0	60	0.80	A (105°C)	35.7
Part Number	**Rated Current (A)**	**Inductance (mH) Minimum**	**DC Resistance/Line (mΩ) Maximum**	**Temperature Rise (K) Maximum**	**Wire Diameter (mm)**	**Thermal Class**	**Weight (g) Approximate**

[1] *Inductance Measurement Condition : 1 kHz*
[2] *Inductance Measurement Condition : 10 kHz*
[3] *Inductance Measurement Condition : 16 kHz*
[4] *Inductance Measurement Condition : 100 kHz*

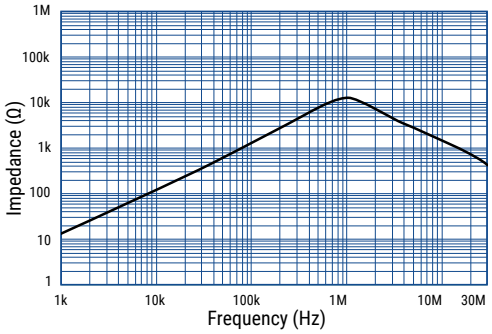
Table 1 – Ratings & Part Number Reference (cont.)

Part Number	Rated Current (A)	Inductance (mH) Minimum	DC Resistance/ Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Thermal Class	Weight (g) Approximate
SC-04-1600	4.0	16.000 [1]	85.0	55	0.80	A (105°C)	39.8
SC-04-E2000	4.0	20.300 [2]	150.0	75	0.80	E (120°C)	45.0
SC22-04-95H	4.3	9.450 [2]	80.0	86	0.75	E (120°C)	31.8
SC-05-E06H	5.0	0.600 [2]	17.5	35	0.85	E (120°C)	10.3
SC-05-100	5.0	1.000 [4]	50.0	40	0.80	A (105°C)	20.0
SC-05-103	5.0	1.000 [4]	50.0	40	0.80	A (105°C)	17.3
SC-05-200	5.0	2.000 [4]	70.0	40	0.80	A (105°C)	25.0
SC-05-203	5.0	2.000 [4]	70.0	40	0.80	A (105°C)	31.2
SC-05-300	5.0	3.000 [4]	55.0	55	0.80	A (105°C)	32.8
SC-05-1100	5.0	11.000 [2]	55.0	50	1.00	E (120°C)	46.7
SC-05-1503	5.0	10.500 [3]	100.0	55	0.90	A (105°C)	41.0
SC-06-101	6.0	1.000 [4]	27.0	40	0.90	E (120°C)	19.3
SC-06-E200H	6.0	2.000 [2]	27.0	40	0.90	E (120°C)	20.1
SC-06-900	6.0	9.000 [1]	60.0	55	1.00	A (105°C)	44.0
SC-07-030V	7.0	0.360 [4]	14.0	30	1.10	E (120°C)	18.9
SC-07-100	7.0	0.650 [4]	14.0	45	1.10	A (105°C)	20.0
SC-07-E300A	7.0	3.000 [4]	45.0	70	1.00	E (120°C)	40.0
SC-07-650	7.0	6.500 [1]	40.0	55	1.10	A (105°C)	45.3
SC22-08-100	8.0	1.000 [2]	20.0	50	1.20	E (120°C)	27.3
SC-08-100	8.0	1.000 [4]	25.0	50	1.20	A (105°C)	40.5
SC22-08-170	8.0	1.700 [2]	20.0	50	1.20	E (120°C)	28.2
SC-08-170H	8.0	1.700 [2]	20.0	45	1.20	A (105°C)	36.3
SC-08-200B	8.0	2.000 [4]	70.0	40	1.20	A (105°C)	43.1
SC22-08-260	8.0	2.600 [1]	30.0	60	1.00	E (120°C)	25.7
SC-08-440	8.0	4.400 [1]	25.0	50	1.20	A (105°C)	44.2
SC-08-700	8.0	7.000 [1]	40.0	55	1.30	A (105°C)	103.6
SC-08-1000	8.0	10.000 [4]	70.0	50	1.20	A (105°C)	104.5
SC-08-E1000	8.0	10.000 [4]	70.0	50	1.20	E (120°C)	108.7
SC-09-1400	9.0	14.000 [1]	53.0	65	1.30	A (105°C)	170.1
SC-10-100	10.0	1.000 [4]	20.0	40	1.30	A (105°C)	40.0
SC-10-200	10.0	2.000 [4]	28.0	40	1.30	A (105°C)	80.0
SC-10-E200H	10.0	2.000 [2]	20.0	45	1.30	E (120°C)	42.5
SC-10-340	10.0	3.400 [4]	32.0	50	1.40	A (105°C)	105.7
SC-10-500	10.0	5.000 [4]	25.0	55	1.50	A (105°C)	110.1
SC-10-1000	10.0	10.000 [4]	35.0	50	1.50	A (105°C)	177.3
SC-12-300	12.0	3.000 [4]	18.0	45	1.60	A (105°C)	103.8
SC-15-01H	15.0	0.067 [2]	2.0	25	1.40	E (120°C)	10.0
SC-15-100	15.0	1.000 [4]	12.0	40	1.80	A (105°C)	100.0
SC-15-E110H	15.0	1.100 [2]	16.5	100	1.30	E (120°C)	41.5
SC-15-201	15.0	2.000 [4]	12.0	50	1.80	E (120°C)	109.3
SC-15-200	15.0	2.000 [4]	12.0	45	1.80	A (105°C)	110.0
SC-15-230	15.0	2.300 [4]	13.0	55	1.80	A (105°C)	114.4
SC-15-E350	15.0	3.500 [4]	20.0	80	1.60	E (120°C)	110.5
SC-15-E350H	15.0	3.500 [4]	20.0	80	1.60	E (120°C)	111.3
SC-18-100	18.0	0.700 [4]	20.0	50	1.70	A (105°C)	45.2
SC-18-180	18.0	1.800 [1]	11.0	75	1.90	A (105°C)	110.4
SC-18-290	18.0	2.900 [4]	25.0	115	1.40	E (120°C)	77.5
SC-20-100	20.0	1.000 [4]	8.0	45	2.30	A (105°C)	135.0
SC-20-104	20.0	1.000 [4]	8.0	50	2.00	A (105°C)	103.3
SC-20-201	20.0	2.000 [2]	10.0	75	1.90	E (120°C)	108.5
SC-20-300	20.0	3.000 [4]	13.0	50	2.30	A (105°C)	202.0
SC-20-400	20.0	4.000 [1]	13.0	55	2.30	A (105°C)	205.0
SC-30-050H	30.0	0.500 [2]	3.0	40	1.80 x 2 Parallel	A (105°C)	103.0
SC-30-100	30.0	1.000 [4]	6.0	40	2.60	A (105°C)	190.0
SC-30-E100	30.0	1.000 [4]	6.0	60	2.60	E (120°C)	200.0
Part Number	**Rated Current (A)**	**Inductance (mH) Minimum**	**DC Resistance/Line (mΩ) Maximum**	**Temperature Rise (K) Maximum**	**Wire Diameter (mm)**	**Thermal Class**	**Weight (g) Approximate**

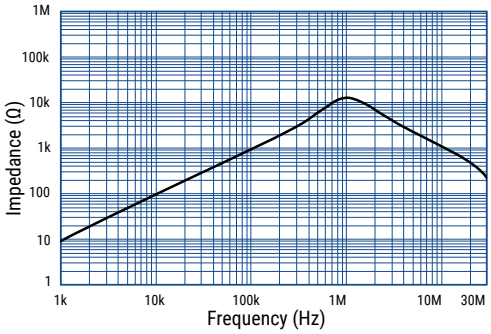
[1] *Inductance Measurement Condition : 1 kHz*
[2] *Inductance Measurement Condition : 10 kHz*
[3] *Inductance Measurement Condition : 16 kHz*
[4] *Inductance Measurement Condition : 100 kHz*

Frequency Characteristics

SC-02-101



SC-02-100



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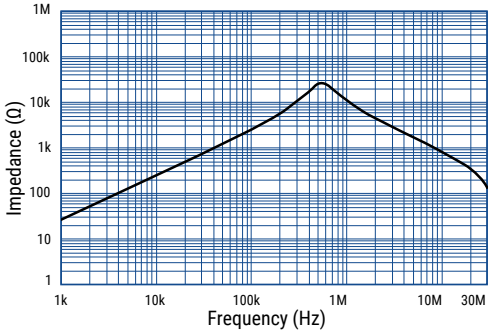

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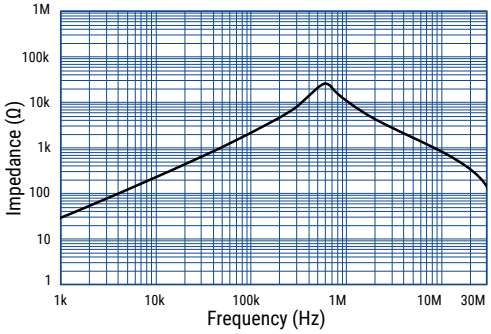

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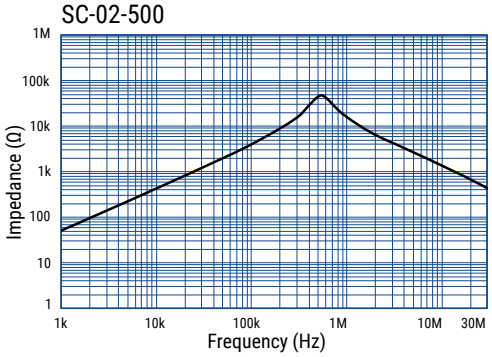

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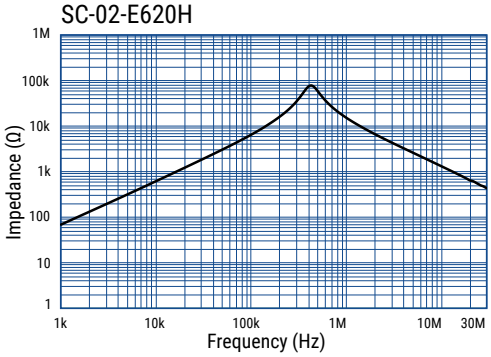

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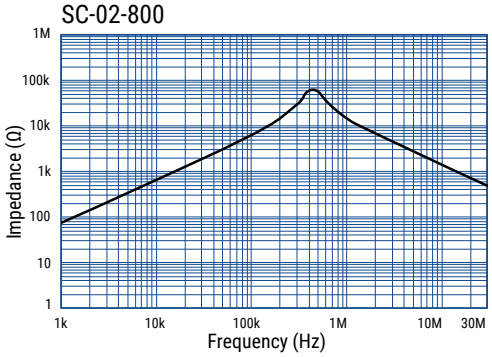
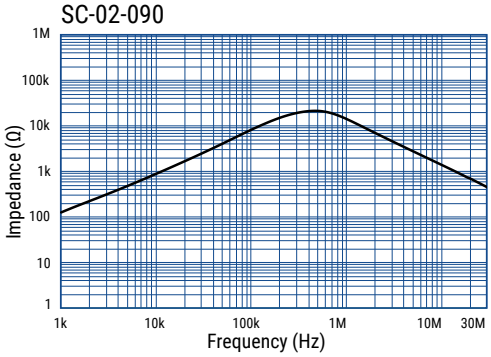
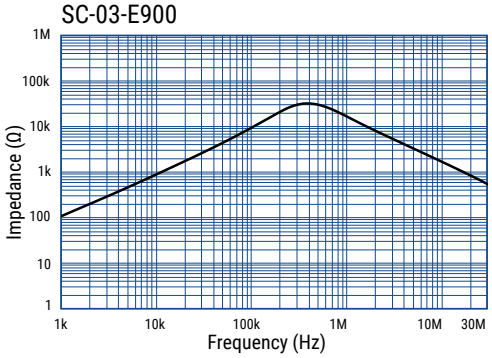


SC-02-090

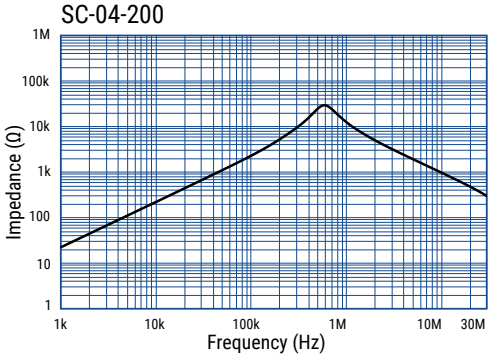


Frequency Characteristics cont.

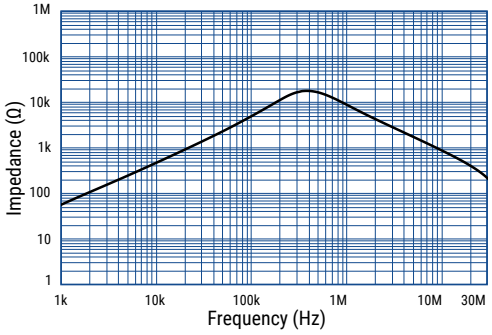
SC-03-E900



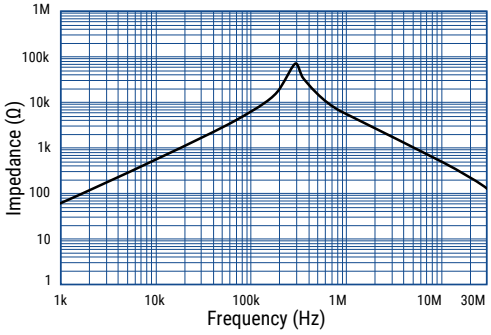
SC-04-200



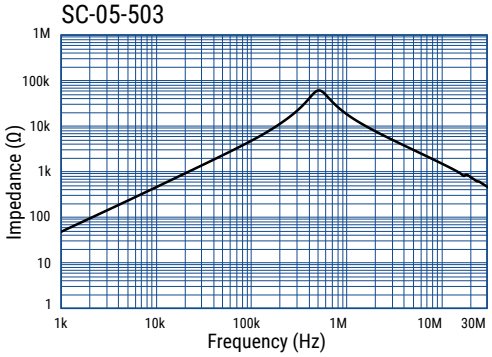
SC-04-500



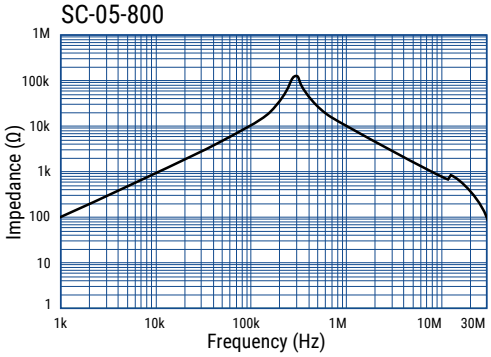
SC-05-500



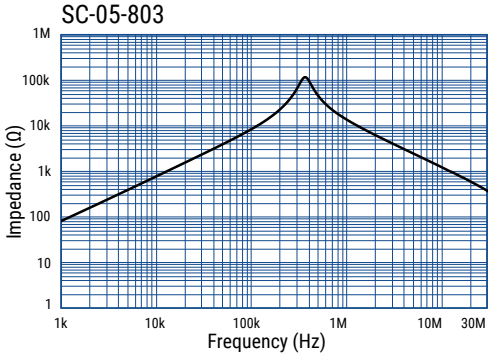
SC-05-503



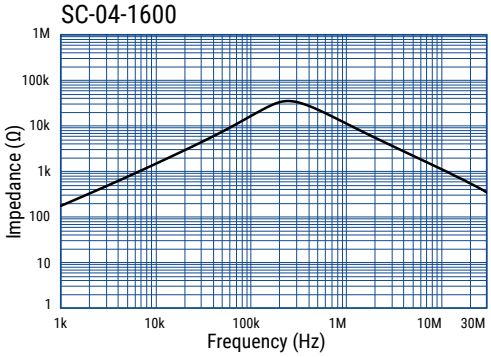
SC-05-800



SC-05-803

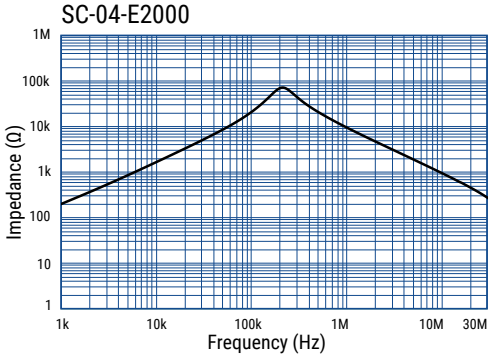


SC-04-1600

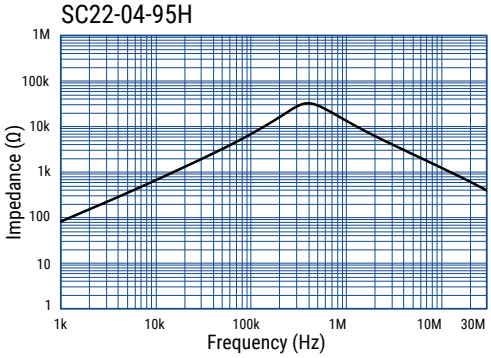


Frequency Characteristics cont.

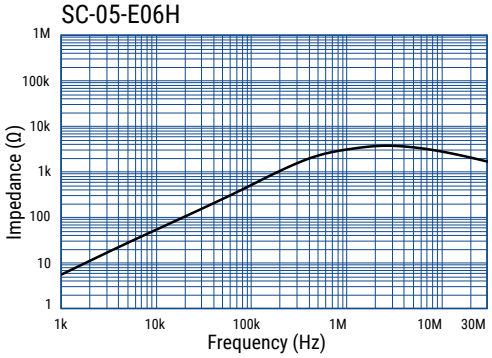
SC-04-E2000



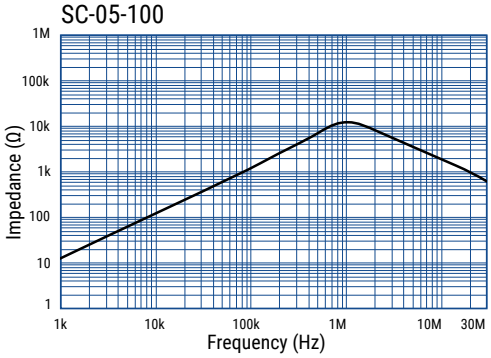
SC22-04-95H



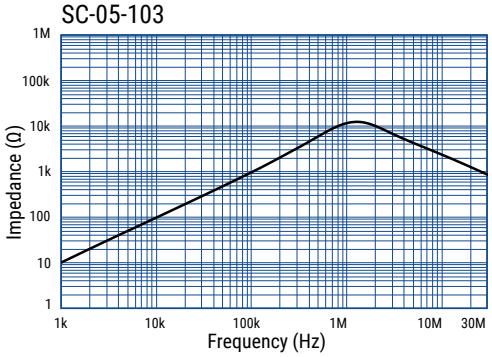
SC-05-E06H



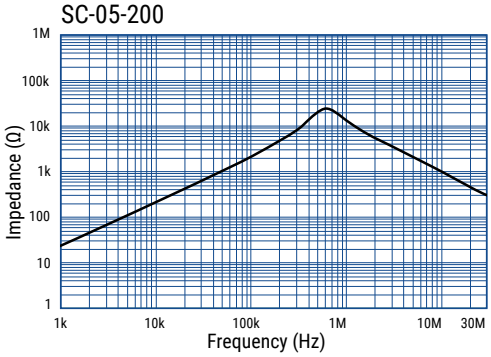
SC-05-100



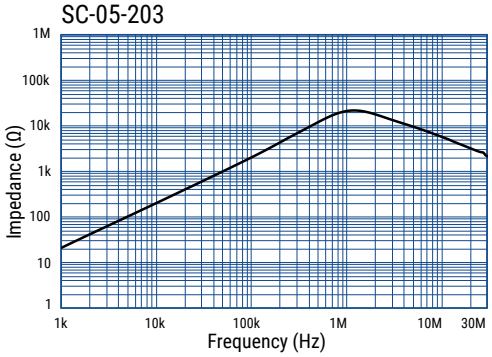
SC-05-103



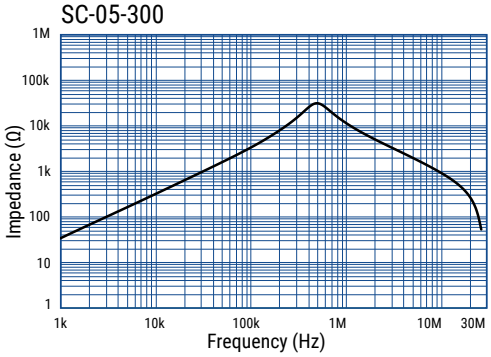
SC-05-200



SC-05-203

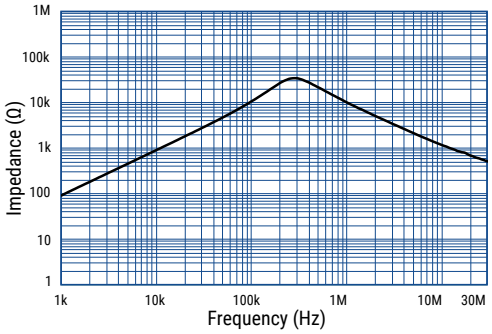


SC-05-300

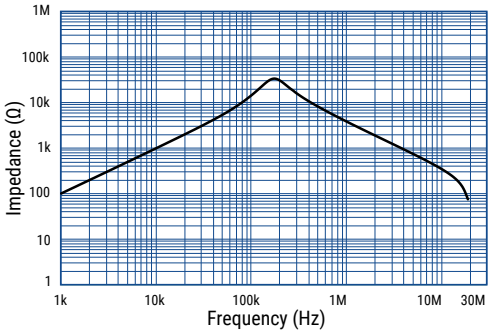


Frequency Characteristics cont.

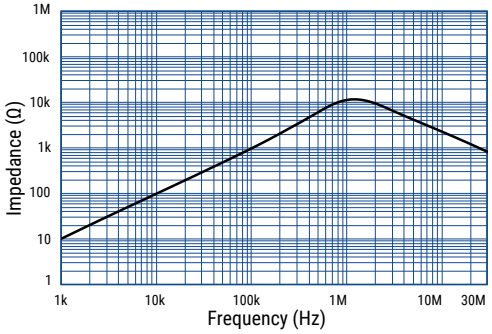
SC-05-1100



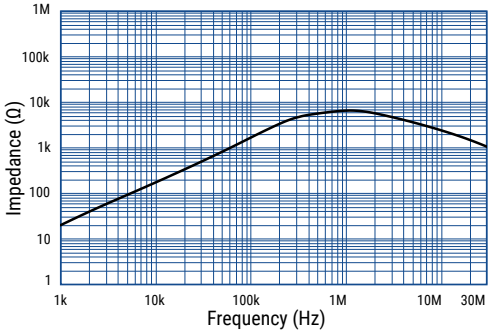
SC-05-1503



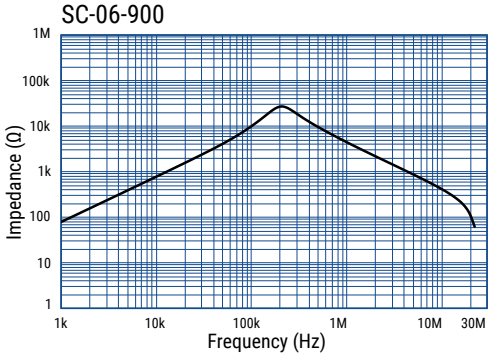
SC-06-101



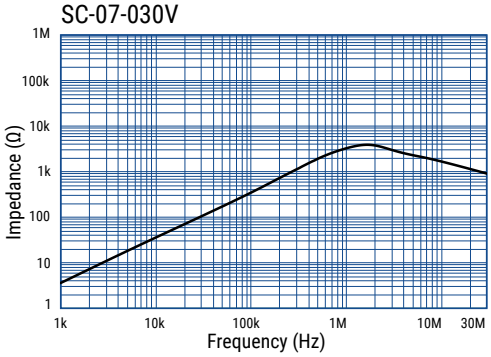
SC-06-E200H



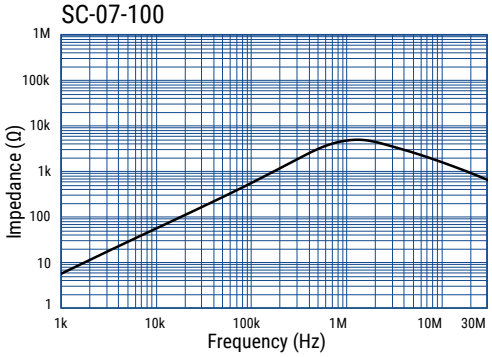
SC-06-900



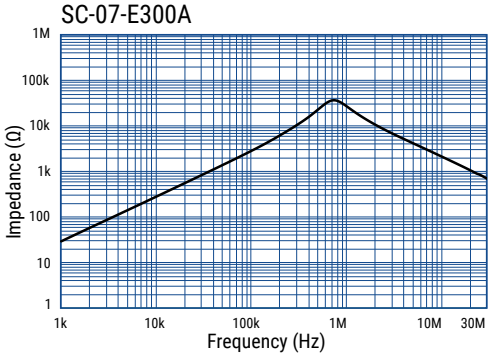
SC-07-030V



SC-07-100

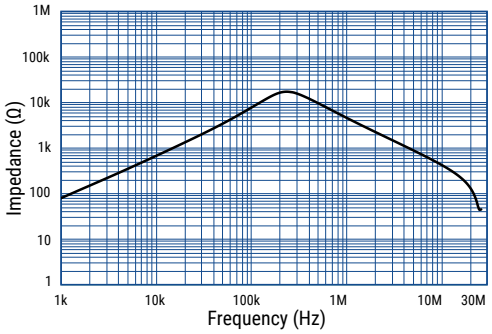


SC-07-E300A

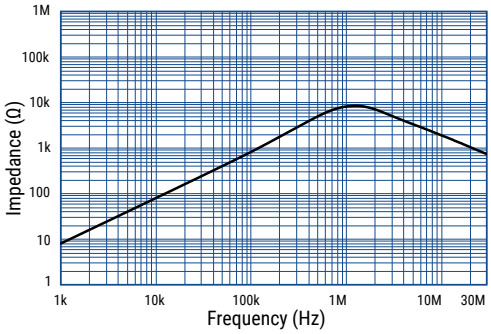


Frequency Characteristics cont.

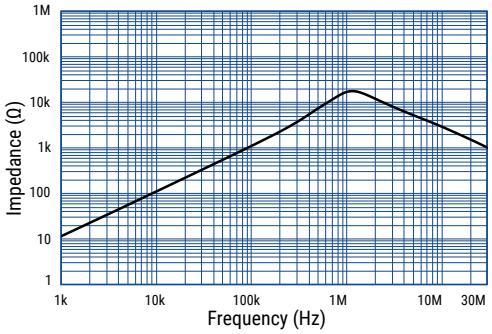
SC-07-650



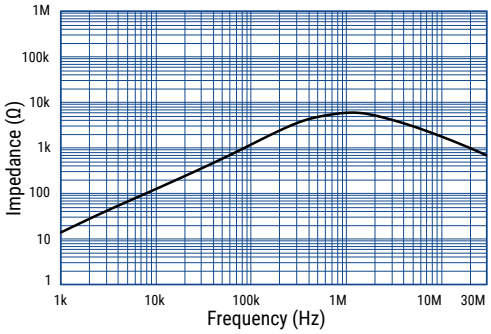
SC22-08-100



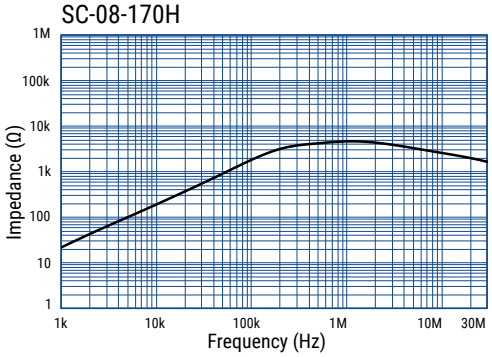
SC-08-100



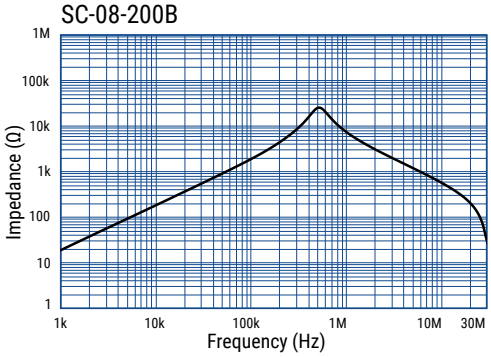
SC22-08-170



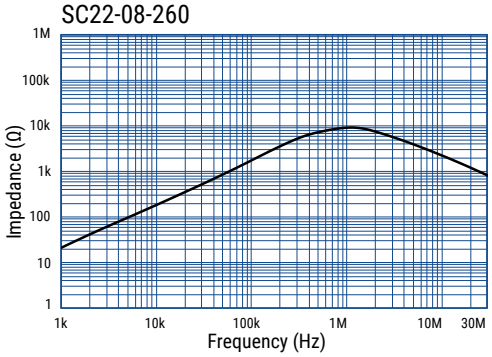
SC-08-170H



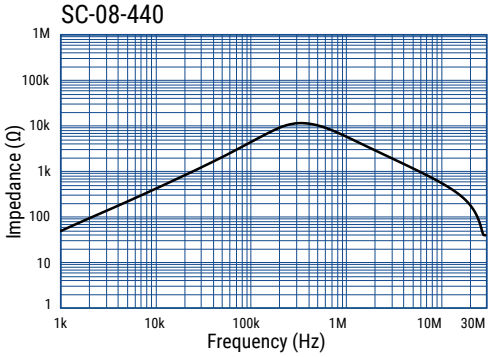
SC-08-200B



SC22-08-260

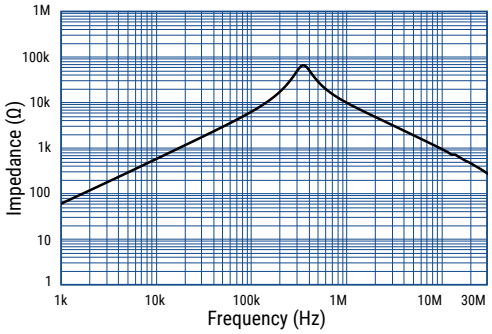


SC-08-440

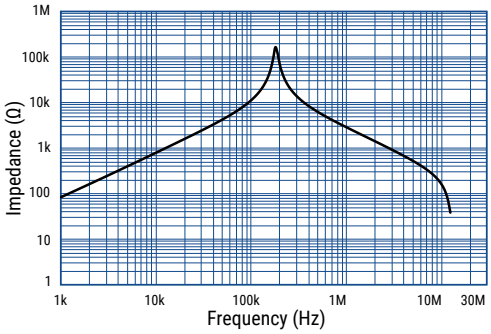


Frequency Characteristics cont.

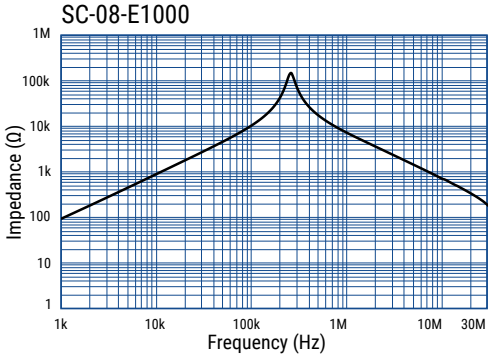
SC-08-700



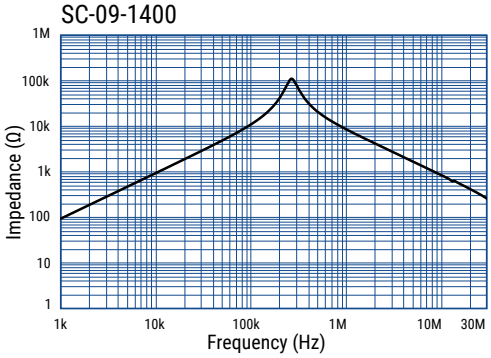
SC-08-1000



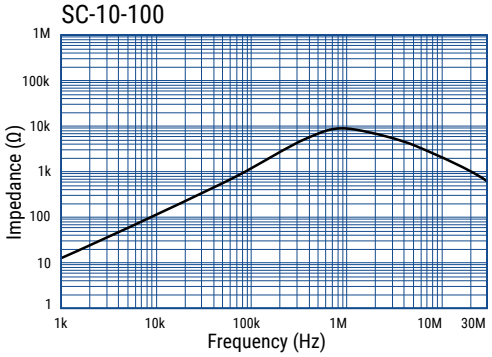
SC-08-E1000



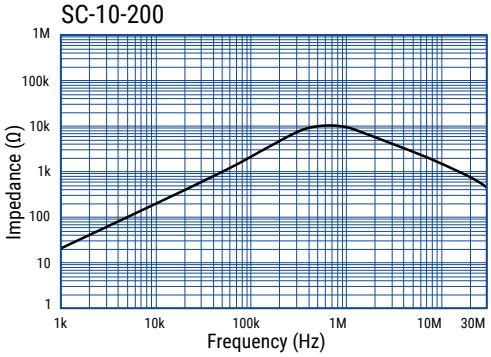
SC-09-1400



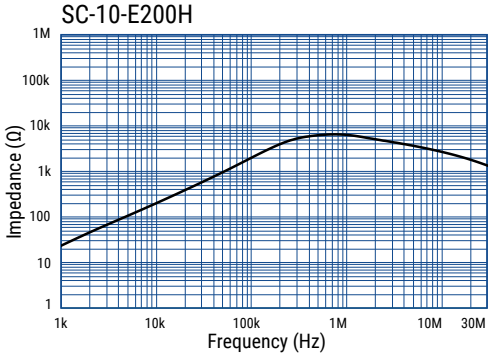
SC-10-100



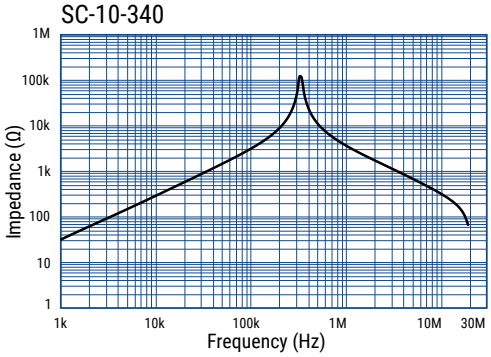
SC-10-200



SC-10-E200H

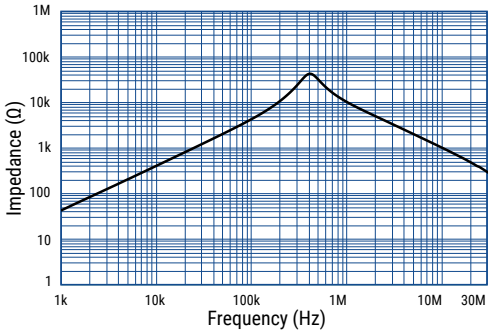


SC-10-340

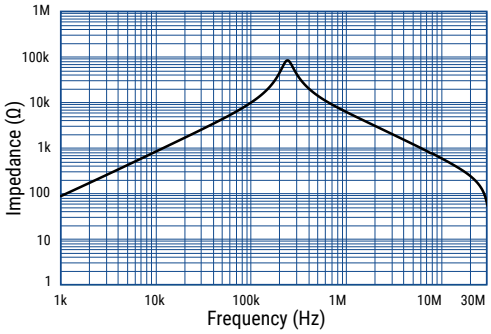


Frequency Characteristics cont.

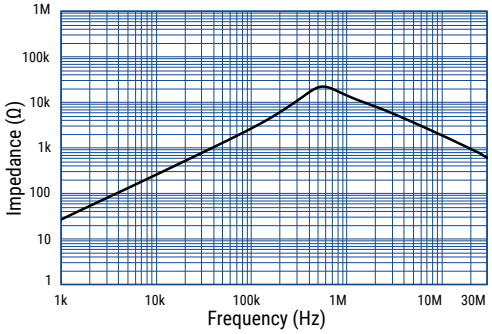
SC-10-500



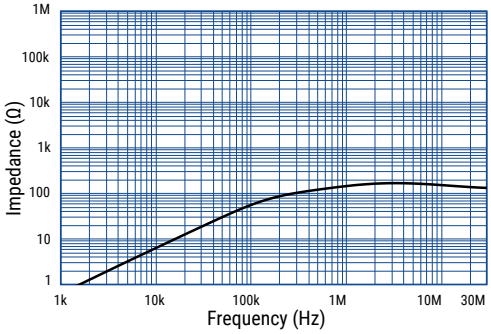
SC-10-1000



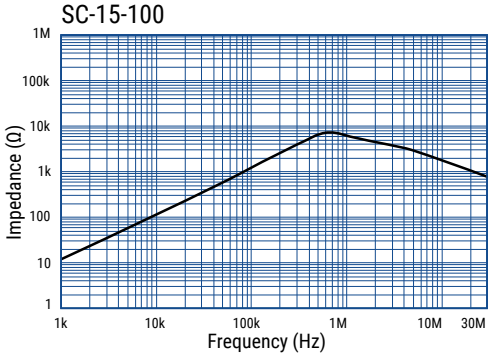
SC-12-300



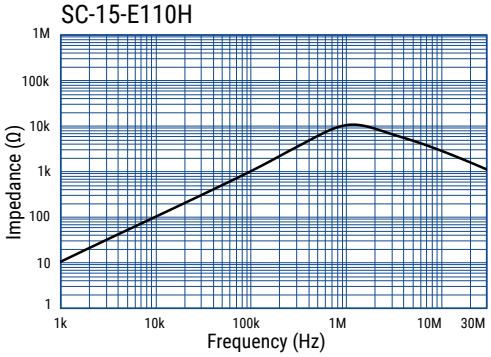
SC-15-01H



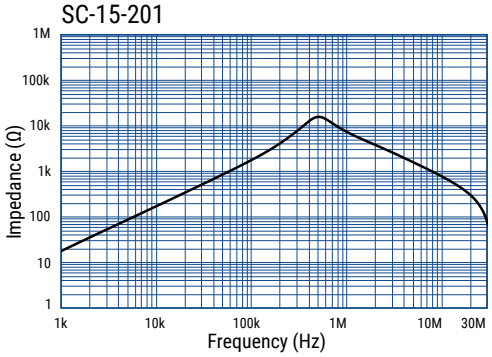
SC-15-100



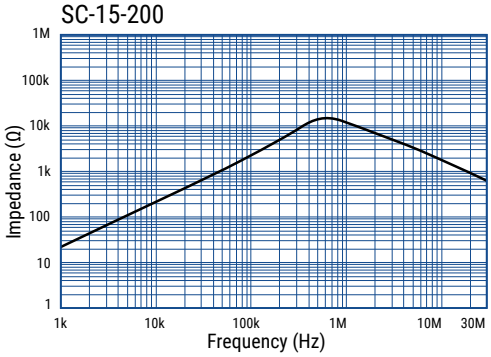
SC-15-E110H



SC-15-201

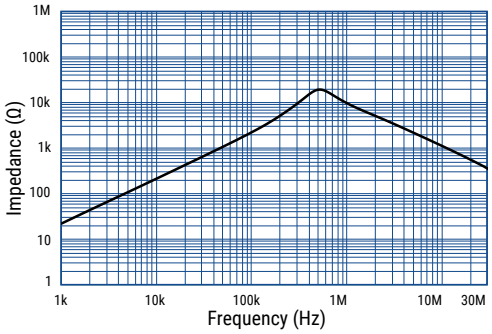


SC-15-200

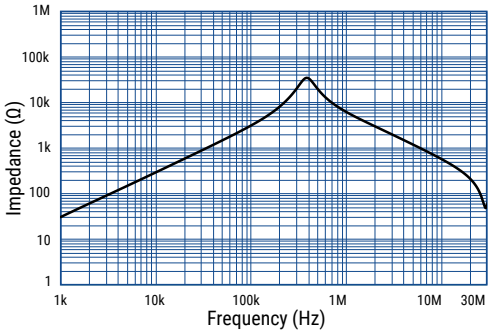


Frequency Characteristics cont.

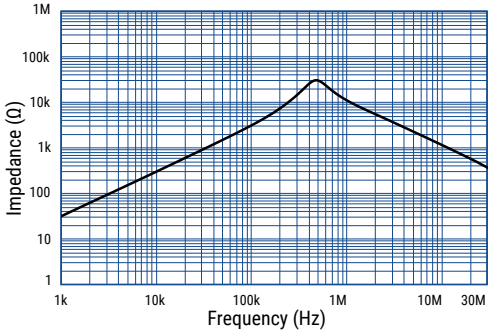
SC-15-230



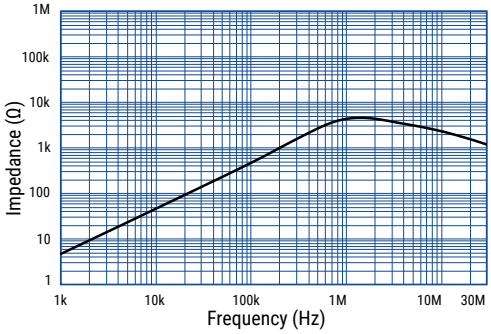
SC-15-E350



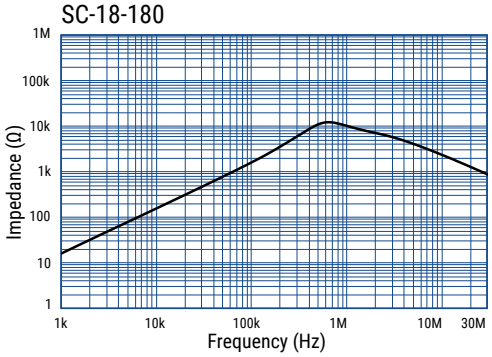
SC-15-E350H



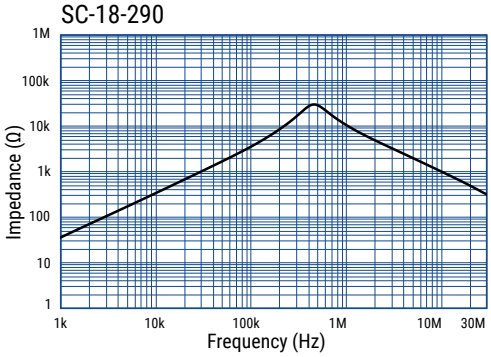
SC-18-100



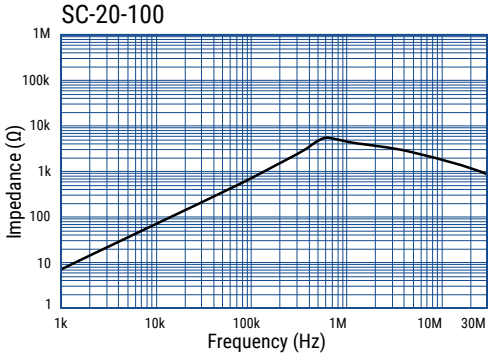
SC-18-180



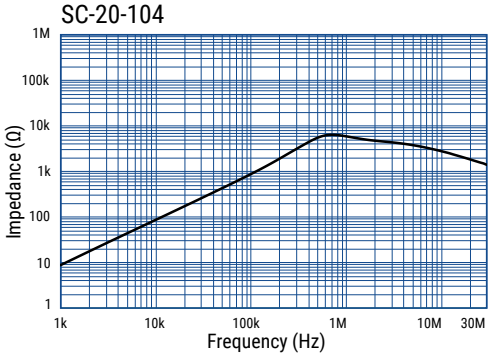
SC-18-290



SC-20-100

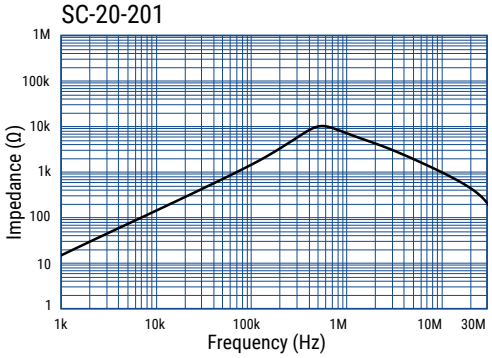


SC-20-104

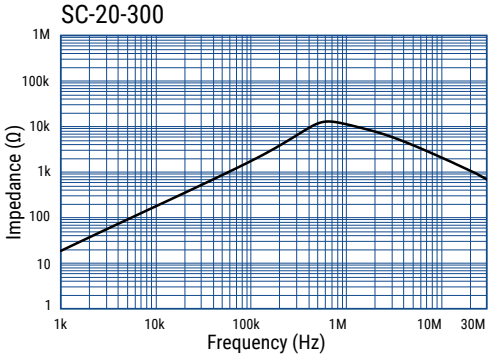


Frequency Characteristics cont.

SC-20-201



SC-20-300



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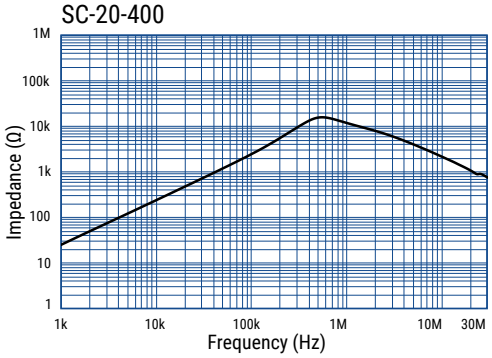
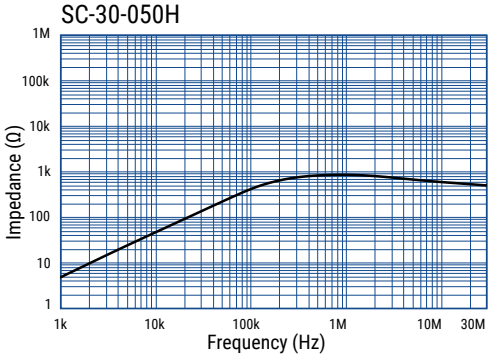
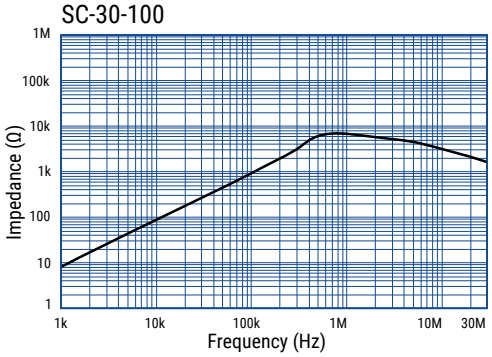


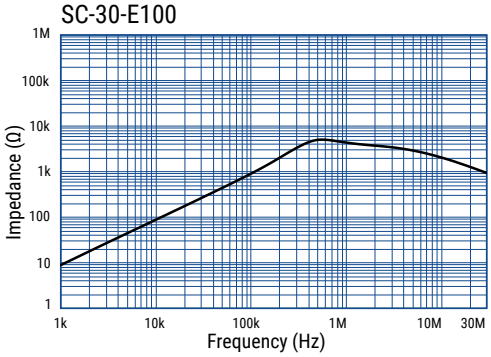
SC-30-050H



SC-30-100



SC-30-E100



Packaging

Type	Packaging Type	Pieces Per Box
SC-02-101	Tray	360
SC-02-100		300
SC-02-200		300
SC-02-300		
SC-02-500		
SC-02-E620H		500
SC-02-800		200
SC-02-090		360
SC-03-E900		300
SC-04-200		
SC-04-500		
SC-05-500		200
SC-05-503		
SC-05-800		
SC-05-803		
SC-04-1600		
SC-04-E2000		100
SC22-04-95H		200
SC-05-E06H		
SC-05-100		300
SC-05-103		500
SC-05-200		200
SC-05-203		
SC-05-300		
SC-05-1100		120
SC-05-1503		200
SC-06-101		500
SC-06-E200H		
SC-06-900		200
SC-07-030V		300
SC-07-100		
SC-07-E300A		200
SC-07-650		
SC22-08-100		250
SC-08-100		200

Type	Packaging Type	Pieces Per Box
SC22-08-170	Tray	250
SC-08-170H		150
SC-08-200B		200
SC22-08-260		500
SC-08-440		200
SC-08-700		60
SC-08-1000		
SC-08-E1000		
SC-09-1400		40
SC-10-100		200
SC-10-200		90
SC-10-E200H		150
SC-10-340		60
SC-10-500		90
SC-10-1000		60
SC-12-300		90
SC-15-01H		300
SC-15-100		90
SC-15-E110H		150
SC-15-201		60
SC-15-200		90
SC-15-230		
SC-15-E350		60
SC-15-E350H		90
SC-18-100		160
SC-18-180		90
SC-18-290		200
SC-20-100		60
SC-20-104		90
SC-20-201		60
SC-20-300		
SC-20-400		
SC-30-050H		90
SC-30-100		60
SC-30-E100		

Handling Precautions

Precautions for product storage

AC Line Filters should be stored in normal working environments. While the chokes themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage.

KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 70% relative humidity. Atmospheres should be free of chlorine and sulfur bearing compounds. Temperature fluctuations should be minimized to avoid condensation on the parts. Avoid storage near strong magnetic fields, as this might magnetize the product.

For optimized solderability, AC line filters stock should be used promptly and preferably within 6 months of receipt.

Product temperature rise values

The values listed for temperature rise are the result of self-heating in wires when the rated current (commercial frequency) is applied.

When using the product, check and evaluate the value of the core temperature rise under actual operating conditions.

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