

Overview

The KEMET SN coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

Applications

- Home appliances
- Power supplies

Benefits

- Proprietary Fe dust core material
- Excellent for normal mode noise countermeasures
- Large core loss
- Wide variety of sizes and specifications
- Operating temperature range from -40°C to $+105^{\circ}\text{C}$



Part Number System

SN	10-		300	
Series	Dimension Code (See Dimensions)		Specification Code (See Table 1)	Core Orientation
SN	3	12P	3 digits or 4 digits	Blank = Vertical H = Horizontal
	5	13	Examples:	
	8S	14		
	8D	14P	3 digits: 300, 400, etc. 4 digits: 1700, 5501, etc.	
	10	16		
	10P	16P		
	12	20P		
	12HP			

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Россия +7(495)268-04-70

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
 Липецк (4742)52-20-81
 Казахстан +7(7172)727-132

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Ноябрьск (3496)41-32-12
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37
 Пермь (342)205-81-47
 Киргизия +996(312)96-26-47

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Саранск (8342)22-96-24
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (8212)25-95-17
 Тамбов (4752)50-40-97
 Тверь (4822)63-31-35

Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
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Dimensions – Millimeters

Figure 1

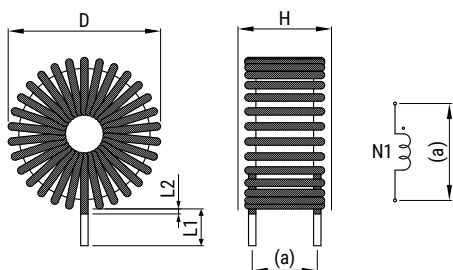


Figure 2

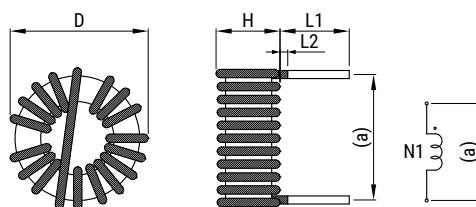
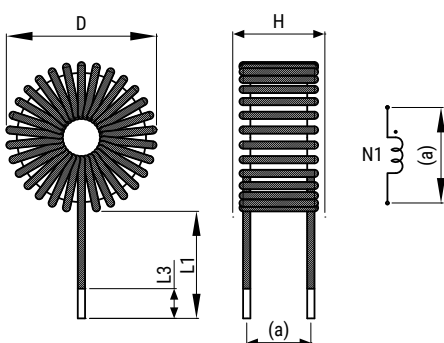


Figure 3



Part Number	Dimensions (mm)					Pin Pitch ¹ (Reference)	Figure
	D (Maximum)	H (Maximum)	L1	L2 (Maximum)	L3 (Maximum)	a	
SN3-300	8.5	5.5	20.0±2.0	2.0	–	5.0	Fig. 1
SN5-700	13.0	8.0	20.0±2.0	1.5	–	6.0	Fig. 1
SN3-200	8.5	5.5	20.0±2.0	1.5	–	5.0	Fig. 1
SN5-5501	13.0	7.0	20.0±2.0	1.6	–	7.0	Fig. 1
SN5-1700	14.0	8.0	20.0±2.0	1.5	–	6.0	Fig. 1
SN5-300	13.0	7.0	20.0±2.0	1.5	–	6.0	Fig. 1
SN5-400	13.0	8.0	20.0±2.0	1.5	–	6.0	Fig. 1
SN8S-300	16.0	8.0	20.0±2.0	1.5	–	8.0	Fig. 1
SN8S-400	16.0	8.0	20.0±2.0	1.5	–	8.0	Fig. 1
SN8S-500	16.0	9.0	20.0±2.0	1.5	–	8.5	Fig. 1
SN8D-300	16.0	11.0	20.0±2.0	1.5	–	9.5	Fig. 1
SN8D-400	16.0	11.0	20.0±2.0	1.5	–	10.0	Fig. 1
SN8D-500	17.0	13.0	20.0±2.0	1.5	–	10.5	Fig. 1
SN10P-800	22.0	12.0	10.0±2.0	1.5	–	10.0	Fig. 1
SN3-100	8.8	5.5	10.0±2.0	1.5	–	5.5	Fig. 1
SN10-300	21.0	11.0	20.0±2.0	1.5	–	9.0	Fig. 1
SN10-400	21.0	11.0	20.0±2.0	1.5	–	9.0	Fig. 1
SN10-500	21.0	12.0	20.0±2.0	1.5	–	10.0	Fig. 1
SN14P-770H	34.0	18.7	6.5±2.0	1.5	–	30.0	Fig. 2
SN8S-130	18.0	9.0	20.0±2.0	–	6 ±1	7.0	Fig. 3

Dimensions – Millimeters cont.

Figure 1

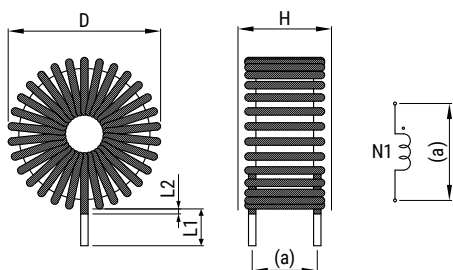


Figure 2

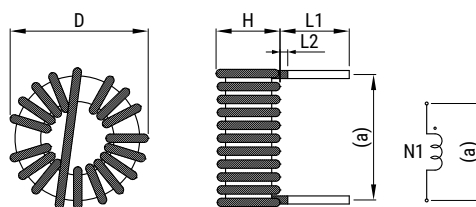
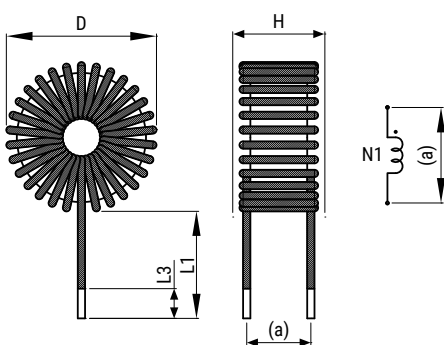


Figure 3



Part Number	Dimensions (mm)					Pin Pitch ¹ (Reference)	Figure
	D (Maximum)	H (Maximum)	L1	L2 (Maximum)	L3 (Maximum)	a	
SN12-300	25.0	12.0	20.0±2.0	1.5	–	10.0	Fig. 1
SN12-400	25.0	12.0	20.0±2.0	1.5	–	11.0	Fig. 1
SN12-500	26.0	12.0	20.0±2.0	1.5	–	12.0	Fig. 1
SN12P-500	26.0	13.0	20.0±2.0	1.5	–	12.0	Fig. 1
SN14-400	35.0	20.0	20.0±2.0	1.5	–	15.0	Fig. 1
SN12-6501	26.0	13.0	20.0±2.0	1.5	–	9.0	Fig. 1
SN12-800	28.0	15.0	20.0±2.0	2.0	–	10.0	Fig. 1
SN14-700	35.0	20.0	20.0±2.0	3.0	–	15.0	Fig. 1
SN13-300	30.0	17.0	20.0±2.0	1.5	–	16.0	Fig. 1
SN13-400	30.0	18.0	20.0±2.0	1.5	–	16.0	Fig. 1
SN13-500	31.0	18.0	20.0±2.0	1.5	–	16.5	Fig. 1
SN16-300	34.0	19.0	20.0±2.0	1.5	–	15.0	Fig. 1
SN16-400	35.0	19.0	20.0±2.0	1.5	–	15.0	Fig. 1
SN16-500	35.0	21.0	20.0±2.0	1.5	–	16.5	Fig. 1
SN16P-130	36.0	19.0	15.0±2.0	1.5	–	15.5	Fig. 1
SN12HP-2201	26.0	16.0	4.0±1.0	1.5	–	10.0	Fig. 1
SN20P-240	42.0	22.0	20.0±2.0	1.5	–	18.0	Fig. 1
SN20P-120H	45.0	38.0	5.0±1.5	1.5	–	38.0	Fig. 2

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

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



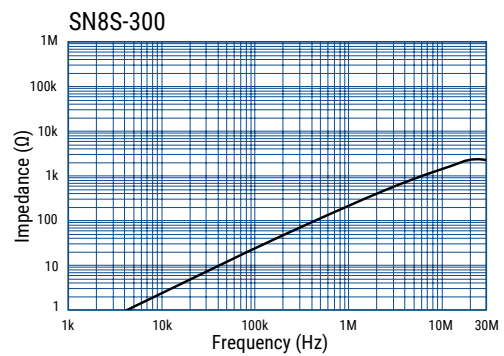
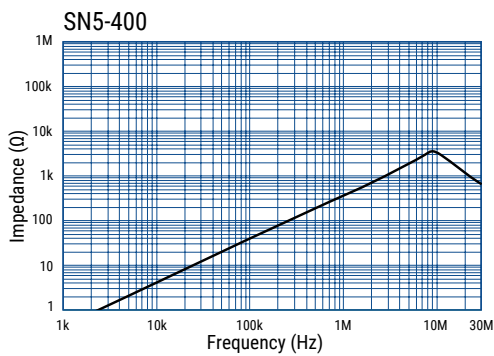
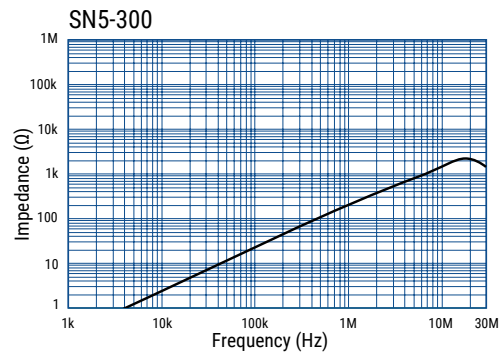
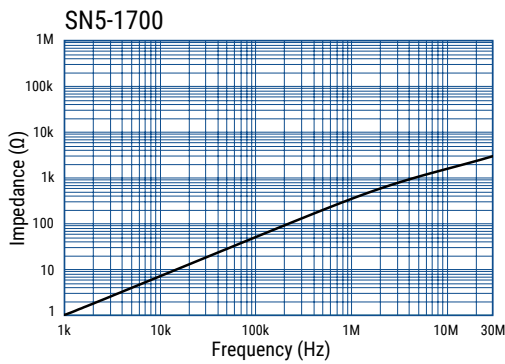
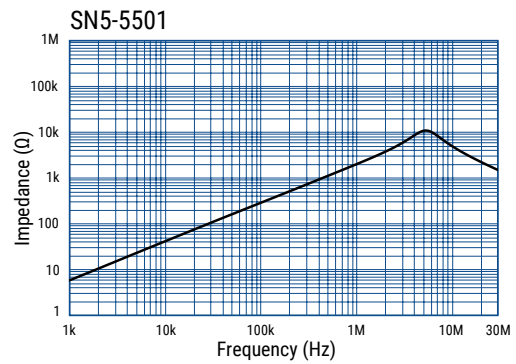
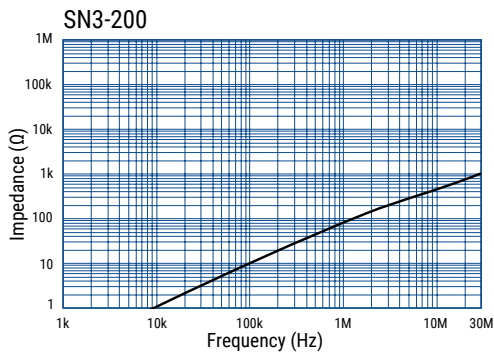
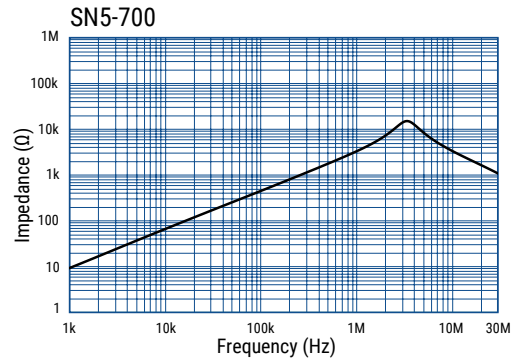
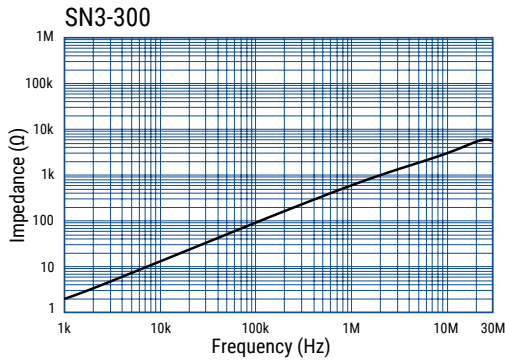
Performance Characteristics

Item	Performance Characteristics
Rated Current Range	1 – 20 A
Rated Inductance Range	2.5 – 550 μ H minimum
Inductance Measurement Condition	100 kHz
Wire Type	1 PVF, 1 UEW, and 1 PEW
Thermal Class	A (105°C)
Operating Temperature Range	-40°C to +105°C (include self temperature rise)

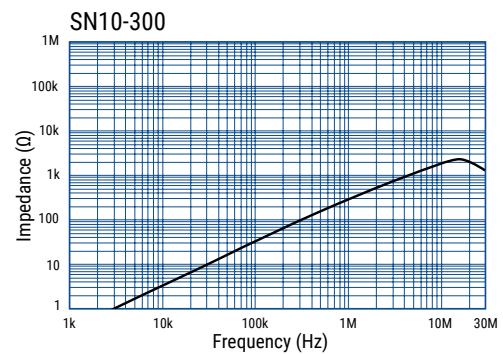
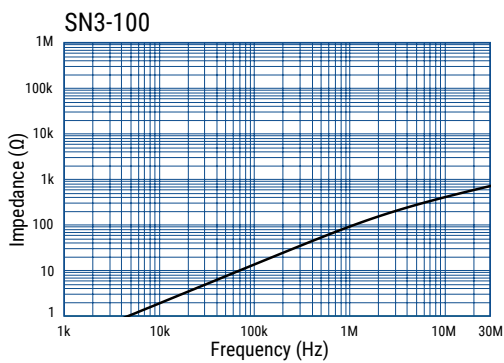
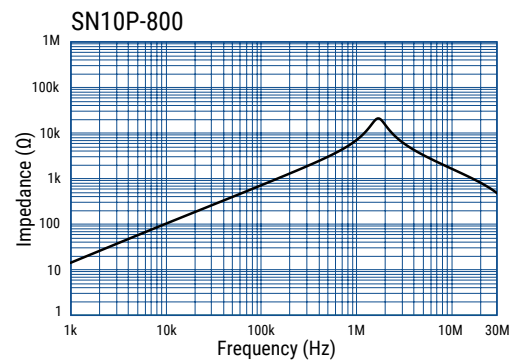
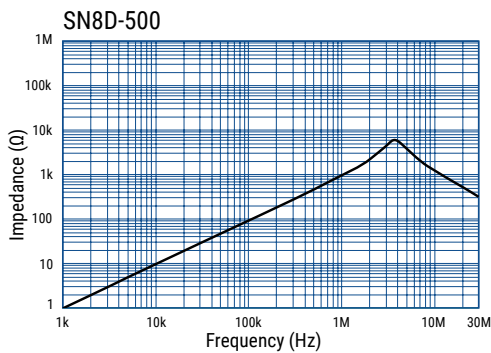
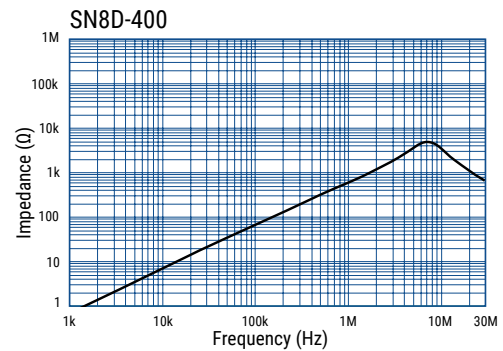
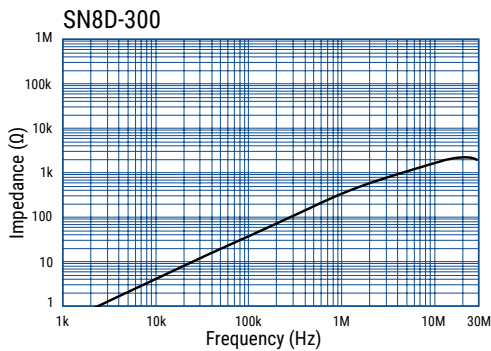
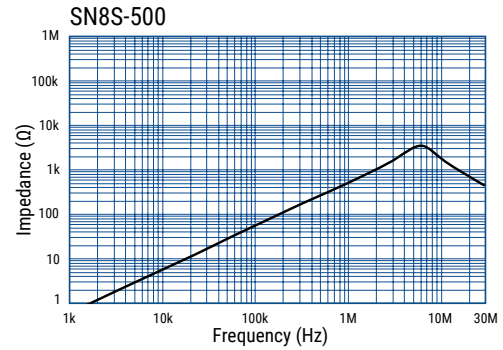
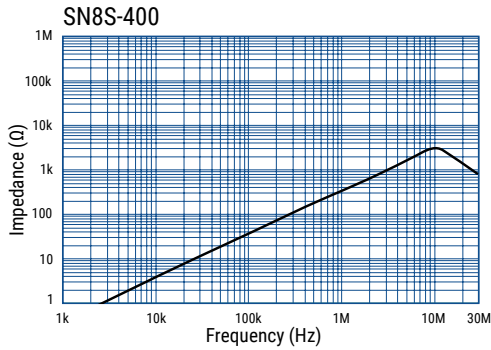
Table 1 – Ratings & Part Number Reference

Part Number	Rated Current (A)	Inductance (µH) Minimum	DC Resistance/Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Weight (g) Approximate
SN3-300	0.5	20.0	0.150	45	0.30	0.8
SN5-700	0.9	140.0	0.250	25	0.35	2.6
SN3-200	1.0	10.0	0.045	15	0.40	0.8
SN5-5501	1.0	80.0	0.200	45	0.40	2.6
SN5-1700	2.0	12.0	0.048	45	0.55	2.4
SN5-300	2.0	25.0	0.042	18	0.55	2.6
SN5-400	2.0	48.0	0.058	22	0.55	3.0
SN8S-300	2.0	26.0	0.042	19	0.60	4.1
SN8S-400	2.0	46.0	0.052	20	0.60	4.5
SN8S-500	2.0	72.0	0.068	23	0.60	4.9
SN8D-300	2.0	45.0	0.052	20	0.60	6.1
SN8D-400	2.0	80.0	0.072	24	0.60	6.8
SN8D-500	2.0	125.0	0.100	27	0.60	7.3
SN10P-800	2.5	297.0	0.190	50	0.60	12.5
SN3-100	3.0	2.5	0.025	45	0.45	0.7
SN10-300	3.0	40.0	0.035	18	0.80	10.2
SN10-400	3.0	72.0	0.042	20	0.80	10.8
SN10-500	3.0	110.0	0.052	26	0.80	11.8
SN14P-770H	3.0	550.0	0.085	35	1.00	54.0
SN8S-130	5.0	4.0	0.012	40	1.10	10.6
SN12-300	5.0	36.0	0.02	30	1.00	14.4
SN12-400	5.0	64.0	0.032	32	1.00	15.8
SN12-500	5.0	100.0	0.040	34	1.00	18.2
SN12P-500	5.0	100.0	0.040	40	1.00	19.5
SN14-400	5.0	120.0	0.045	40	1.20	48.4
SN12-6501	5.0	170.0	0.060	55	1.00	21.0
SN12-800	5.0	250.0	0.060	45	1.00	23.7
SN14-700	5.0	450.0	0.120	60	1.00	51.4
SN13-300	6.0	51.0	0.023	28	1.20	31.1
SN13-400	6.0	92.0	0.030	33	1.20	35.1
SN13-500	6.0	143.0	0.036	38	1.20	38.2
SN16-300	8.0	60.0	0.021	21	1.50	39.0
SN16-400	8.0	108.0	0.027	24	1.50	44.4
SN16-500	8.0	168.0	0.031	36	1.50	51.2
SN16P-130	10.0	10.0	0.005	45	1.80	35.8
SN12HP-2201	10.0	20.0	0.013	50	1.40	22.4
SN20P-240	20.0	40.0	0.010	55	2.00	70.0
SN20P-120H	20.0	120.0	0.018	65	2.10	153.7

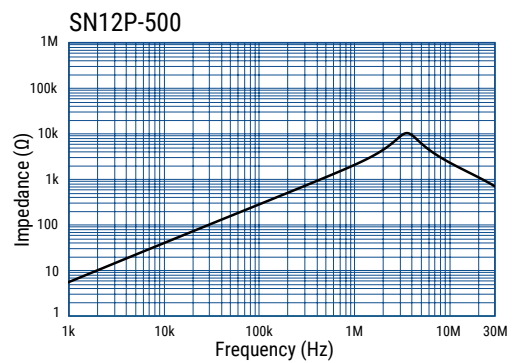
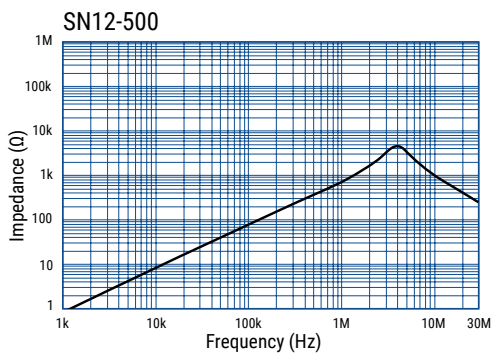
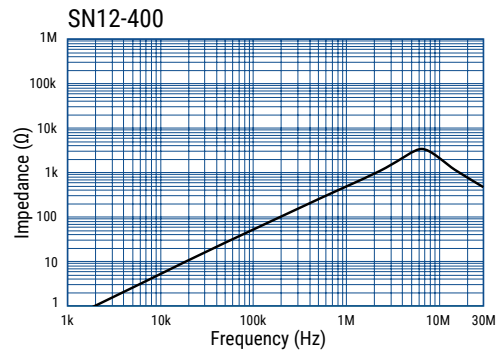
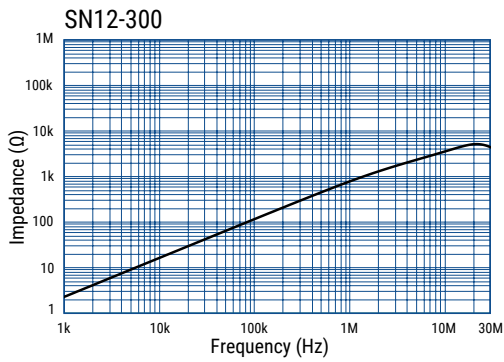
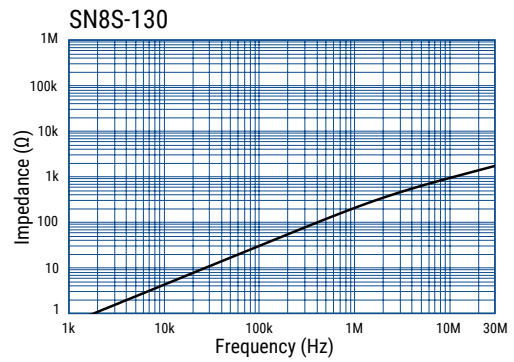
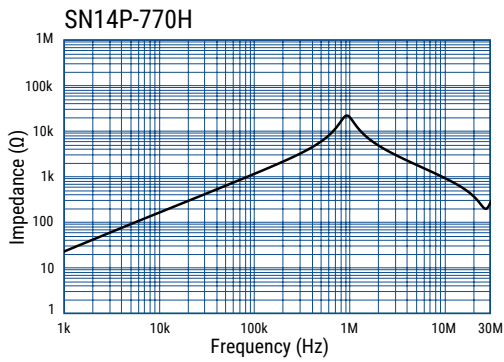
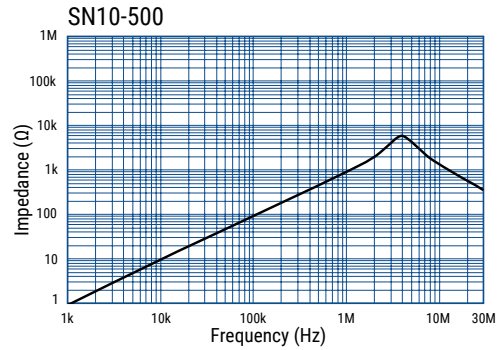
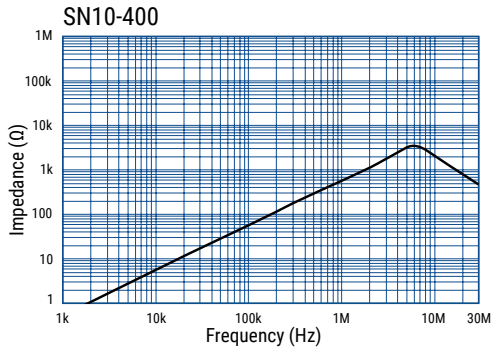
Frequency Characteristics



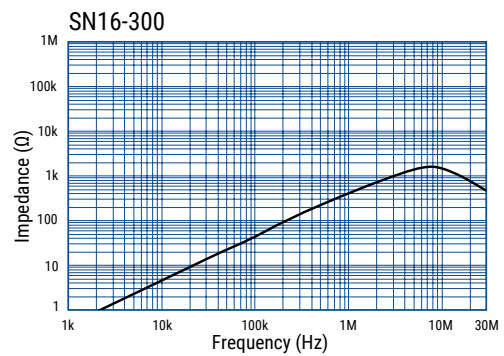
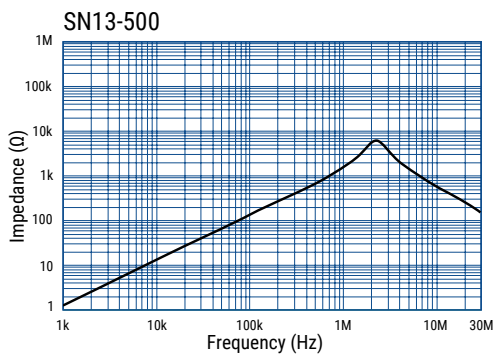
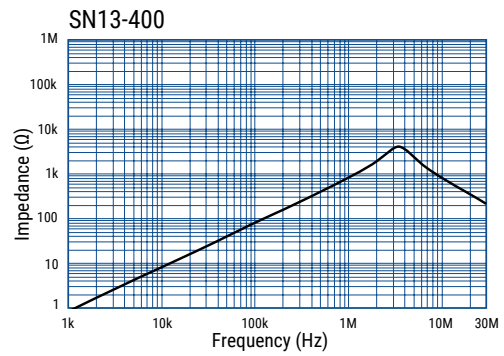
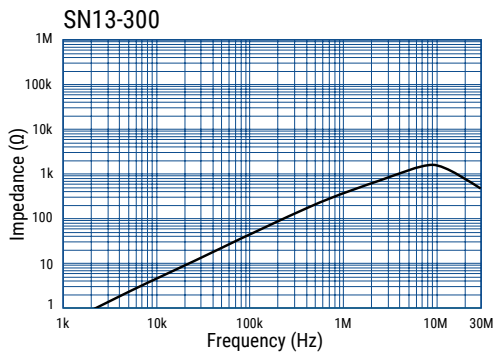
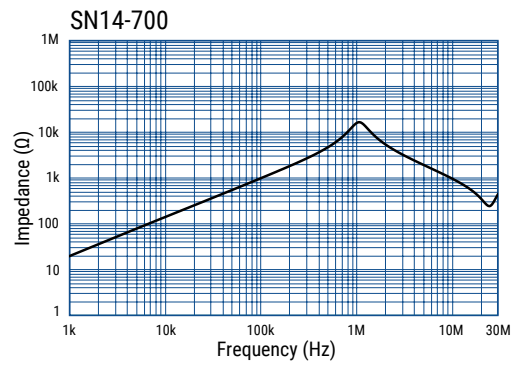
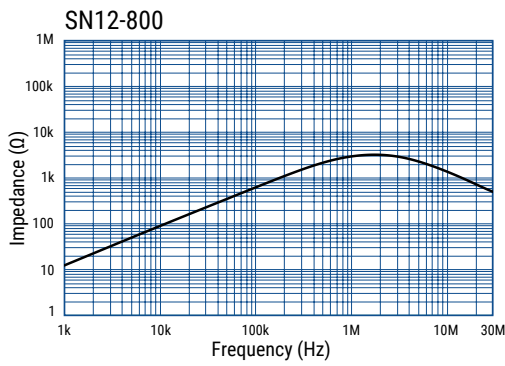
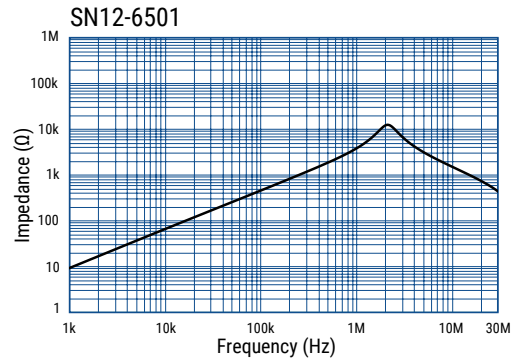
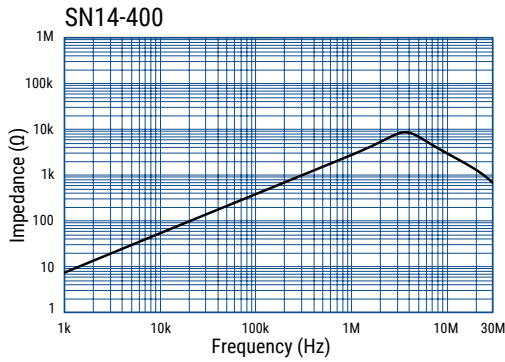
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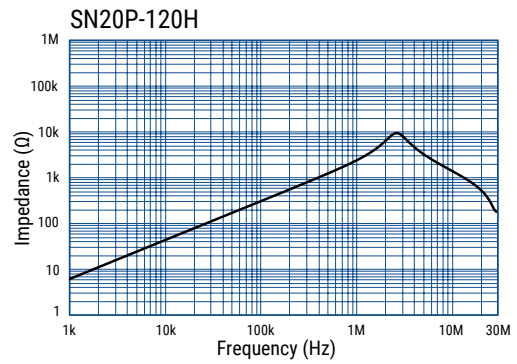
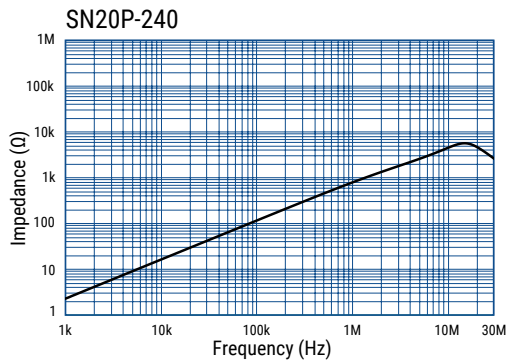
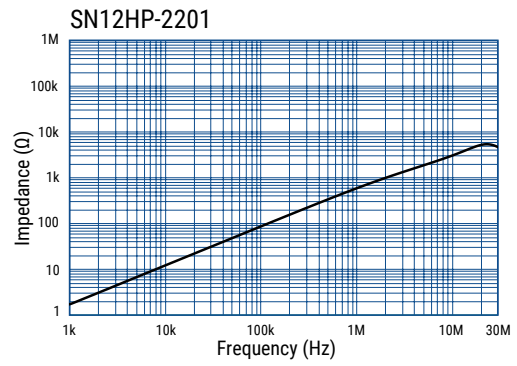
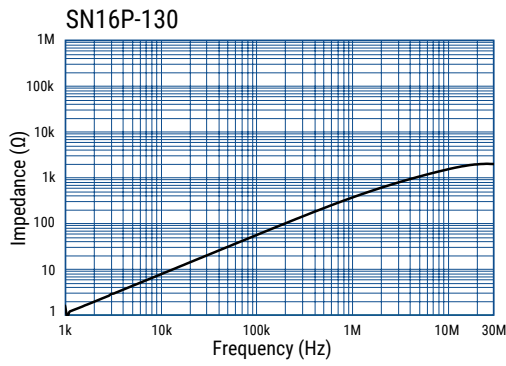
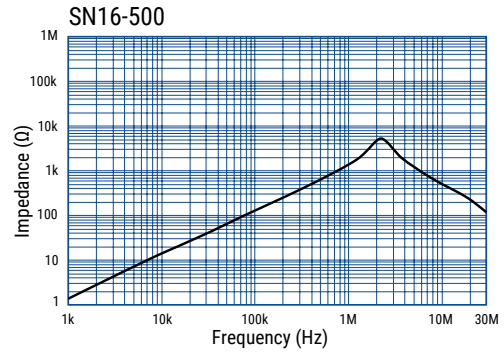
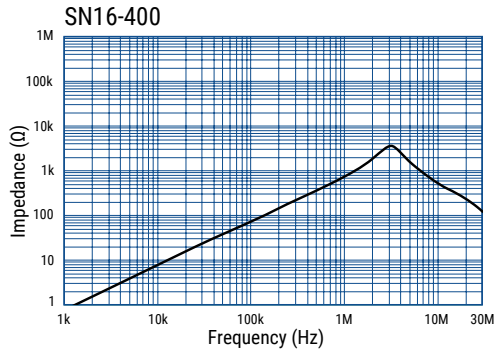
Frequency Characteristics cont.



Frequency Characteristics cont.



Frequency Characteristics cont.



Packaging

Type	Packaging Type	Pieces Per Box
SN3-300	Bulk	6,000
SN5-700		4,800
SN3-200		6,000
SN5-5501		4,800
SN5-1700		
SN5-300		4,800
SN5-400		
SN8S-300		3,000
SN8S-400		
SN8S-500		
SN8D-300		1,800
SN8D-400		
SN8D-500		
SN10P-800		Tray
SN3-100	Bulk	6,000
SN10-300		1,000
SN10-400		
SN10-500		
SN14P-770H	Tray	150
SN8S-130		3,000
SN12-300		350
SN12-400		
SN12-500		
SN12P-500		250
SN14-400		
SN12-6501		350
SN12-800		
SN14-700		250
SN13-300		
SN13-400		
SN13-500		
SN16-300		
SN16-400		
SN16-500		
SN16P-130		350
SN12HP-2201		
SN20P-240		
SN20P-120H		40

Differential Mode SN Coils, SN-J Series, Terminal Base Type

Overview

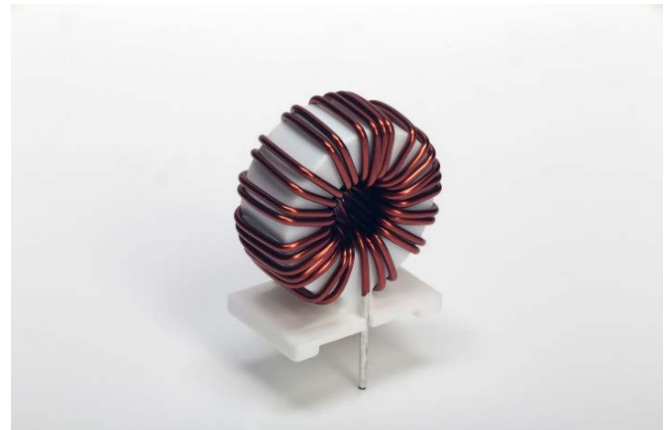
The KEMET SN-J coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

Applications

- Home appliances
- Power supplies

Benefits

- Proprietary Fe dust core material
- Excellent for normal mode noise countermeasures
- Large core loss
- Wide variety of sizes and specifications
- Operating temperature range from -25°C to +105°C or +120°C
- UL 94 V-2 flame retardant rated cap
- UL 94 V-0 flame retardant rated base



Part Number System

SN	10-	300	J
Series	Dimension Code (See Dimensions)	Specification Code (See Table 1)	Terminal Base Type (See Dimensions)
SN	10 12 14P 16P	300 400 500 800	J

Dimensions – Millimeters

Figure 1

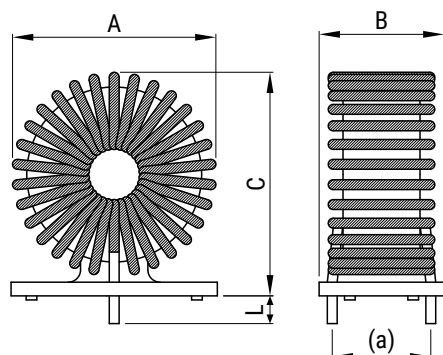
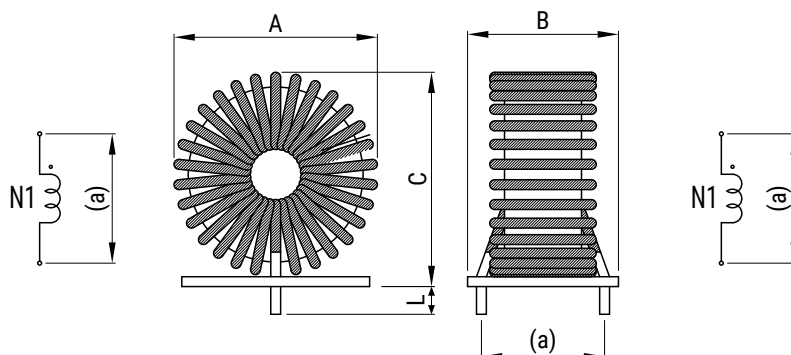


Figure 2



Part Number	Dimensions (mm)				Pin Pitch ¹ (Reference)	Figure
	A (Maximum)	B (Maximum)	C (Maximum)	L	a	
SN10-300J	23.0	16.0	26.0	7.0±2	10	Fig. 1
SN10-400J	23.0	16.0	26.0	7.0±2	10	Fig. 1
SN10-500J	23.0	16.0	26.0	7.0±2	10	Fig. 1
SN12-800J	29.0	18.0	29.0	7.0±2	10	Fig. 1
SN12-400J	28.0	17.0	29.0	7.0±2	10	Fig. 1
SN12-500J	28.0	17.0	29.0	7.0±2	10	Fig. 1
SN16P-400J	33.0	21.0	33.5	4.5±1	16	Fig. 2
SN14P-300J	35.0	25.0	37.0	4.5±1	20	Fig. 2

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

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



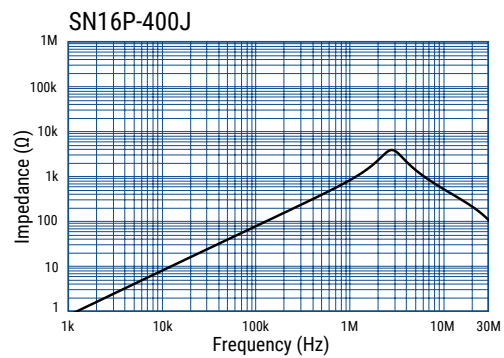
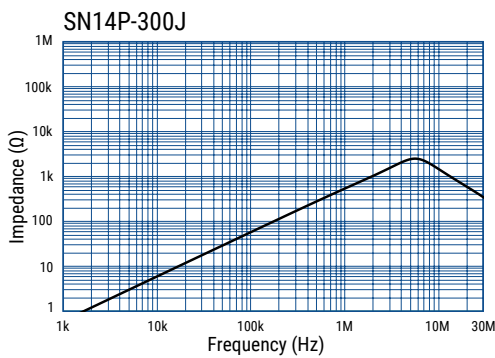
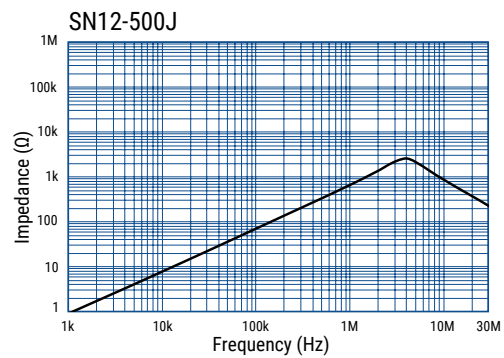
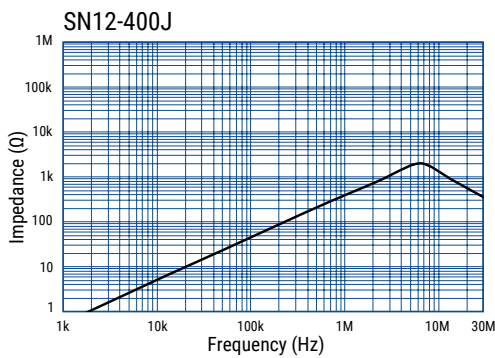
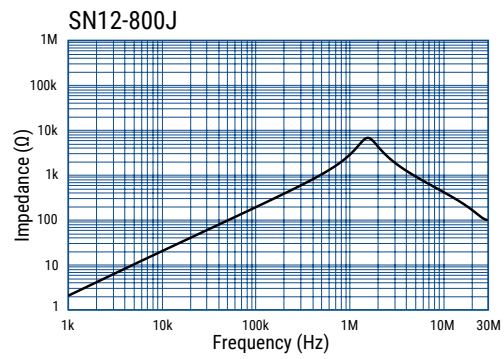
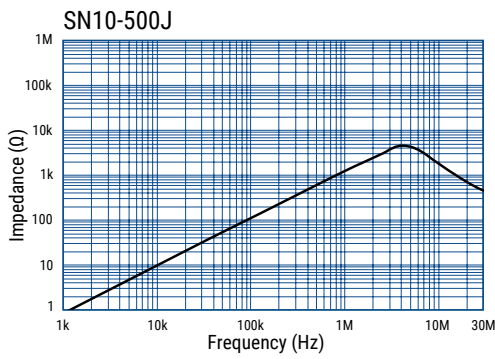
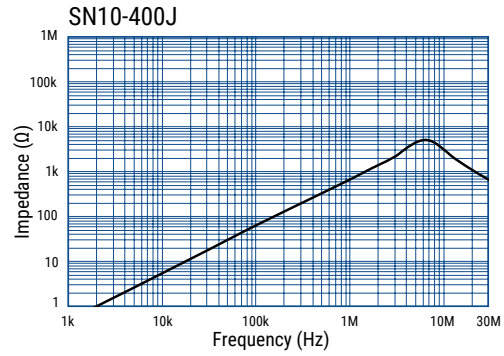
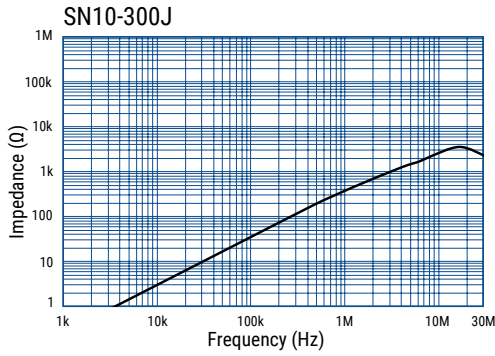
Performance Characteristics

Item	Performance Characteristics
Rated Current Range	3 – 15 A
Rated Inductance Range	40 – 270 μ H minimum
Inductance Measurement Condition	100 kHz
Wire Type	1 PVF, 1 UEW, and 1 PEW
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 (μ H) Minimum	DC Resistance/Line (m Ω) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Thermal Class	Weight (g) Approximate
SN10-300J	3	40	0.041	23	0.8	A (105°C)	12.5
SN10-400J	3	72	0.056	27	0.8	A (105°C)	12.9
SN10-500J	3	110	0.071	30	0.8	A (105°C)	14.0
SN12-800J	3	270	0.130	45	0.8	A (105°C)	19.0
SN12-400J	5	64	0.037	35	1.0	A (105°C)	17.1
SN12-500J	5	100	0.045	38	1.0	A (105°C)	20.0
SN16P-400J	8	108	0.027	45	1.5	E (120°C)	44.9
SN14P-300J	15	80	0.015	77	1.6	E (120°C)	56.0

Frequency Characteristics



Packaging

Type	Packaging Type	Pieces Per Box
SN10-J	Tray	600
SN12-J		300
SN14P-300J		250
SN16P-400J		

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.

Differential Mode SN Coils, SN-JA Series, Terminal Base Type

Overview

The KEMET SN-JA coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

Applications

- Home appliances
- Power supplies

Benefits

- Proprietary Fe dust core material
- Excellent for normal mode noise countermeasures
- Large core loss
- Wide variety of sizes and specifications
- Operating temperature range from -25°C to $+105^{\circ}\text{C}$
- UL 94 V-0 flame retardant rated cap

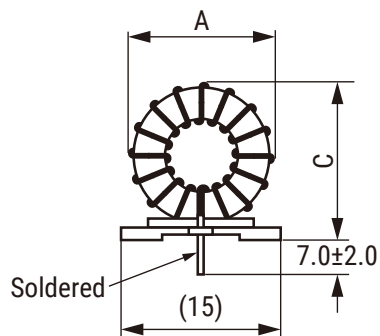


Part Number System

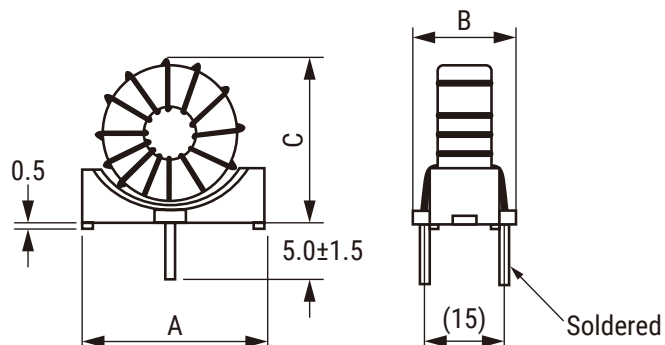
SN	8S-	300	JA
Series	Dimension Code (See Dimensions)	Specification Code (See Table 1)	Terminal Base Type (See Dimensions)
SN	8S 16	300 400 500	JA

Dimensions – Millimeters

● SN8S-JA



● SN16-JA



Part Number	Dimensions (mm)		
	A Maximum	B Maximum	C Maximum
SN8S-300JA	18	–	18
SN8S-400JA	18	–	18
SN16-300JA	35	19	39
SN16-400JA	35	20	39
SN16-500JA	35	21	39

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



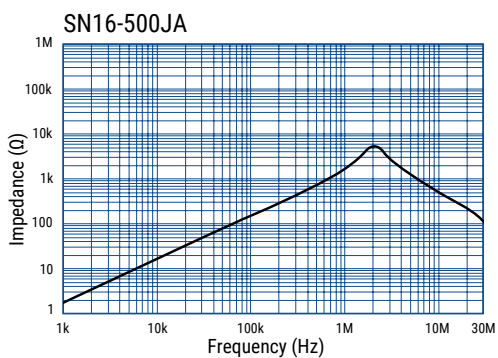
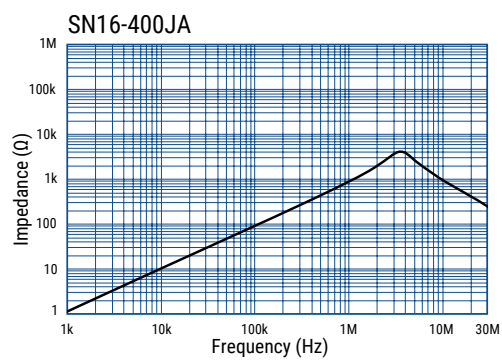
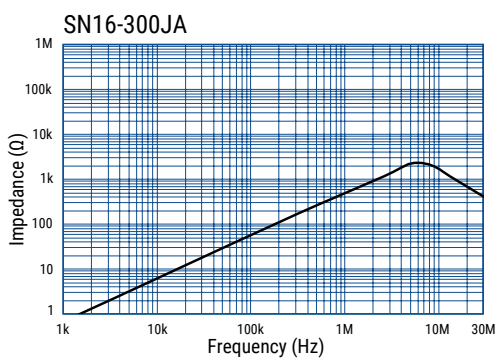
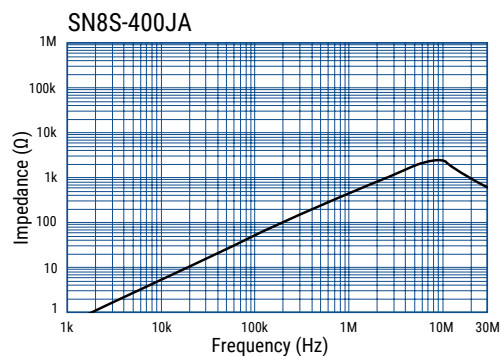
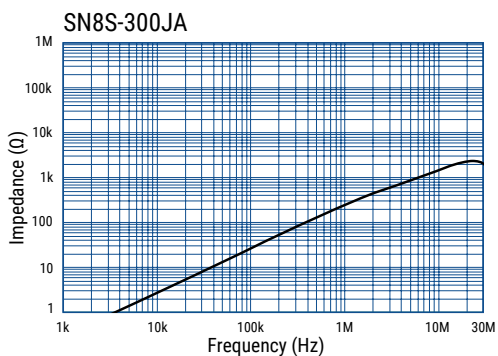
Performance Characteristics

Item	Performance Characteristics
Rated Current Range	2 – 8 A
Rated Inductance Range	26 – 168 μ H minimum
Inductance Measurement Condition	100 kHz
Wire Type	1 PVF, 1 UEW, and 1 PEW
Thermal Class	A (105°C)
Operating Temperature Range	-25°C to +105°C (include self temperature rise)

Table 1 – Ratings & Part Number Reference

Part Number	Rated Current (A)	Inductance (μ H) Minimum	DC Resistance/ Line ($m\Omega$) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Weight (g) Approximate
SN8S-300JA	2	26	0.042	19	0.6	4.4
SN8S-400JA	2	46	0.052	20	0.6	5.0
SN16-300JA	8	60	0.021	21	1.5	40.6
SN16-400JA	8	108	0.027	24	1.5	45.0
SN16-500JA	8	168	0.031	36	1.5	53.6

Frequency Characteristics



Packaging

Type	Packaging Type	Pieces Per Box
SN8S-JA	Tray	600
SN16-JA		200

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.

Differential Mode SN Coils, SN-JB Series, Terminal Base Type

Overview

The KEMET SN-JB coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

Applications

- Home appliances
- Power supplies

Benefits

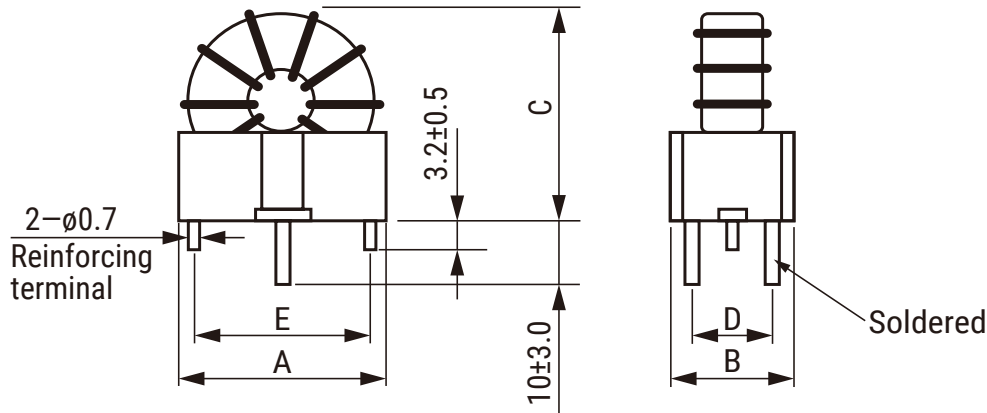
- Proprietary Fe dust core material
- Excellent for normal mode noise countermeasures
- Large core loss
- Wide variety of sizes and specifications
- Operating temperature range from -25°C to $+105^{\circ}\text{C}$
- UL 94 V-0 flame retardant rated cap



Part Number System

SN	5-	300	JB
Series	Dimension Code (See Dimensions)	Specification Code (See Table 1)	Terminal Base Type (See Dimensions)
SN	5 8S 8D	300 400 450 500	JB

Dimensions – Millimeters



Part Number	Dimensions (mm)				
	A Maximum	B Maximum	C Maximum	D	E
SN5-300JB	13.5	9.2	15.0	(7.5)	(10.0)
SN5-450JB	13.5	9.2	15.5	(7.5)	(10.0)
SN8S-300JB	18.0	12.5	18.0	(9.7)	(14.0)
SN8S-400JB	18.0	12.5	18.0	(9.7)	(14.0)
SN8S-500JB	18.0	12.5	18.0	(9.7)	(14.0)
SN8D-300JB	18.5	15.5	18.0	(13.0)	(14.0)
SN8D-400JB	18.5	15.5	18.0	(13.0)	(14.0)
SN8D-500JB	18.5	15.5	18.0	(13.0)	(14.0)

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



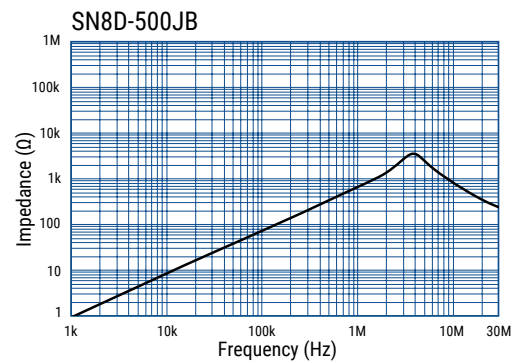
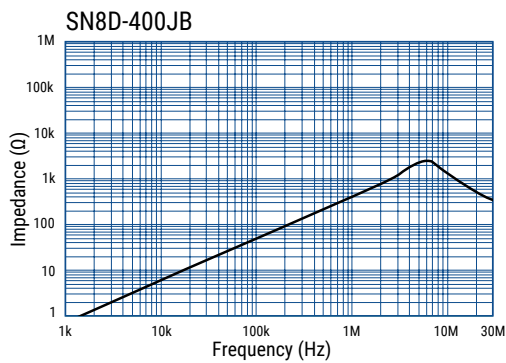
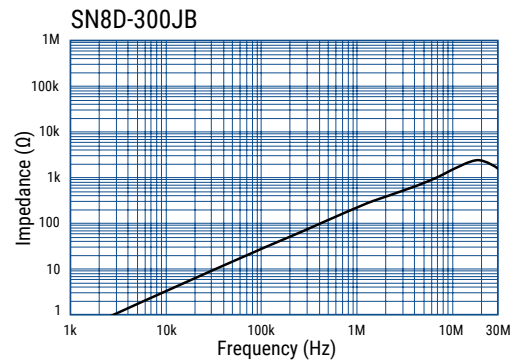
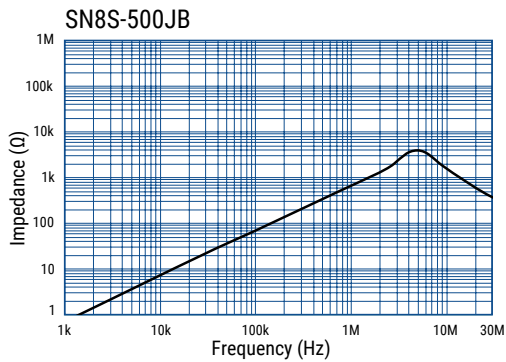
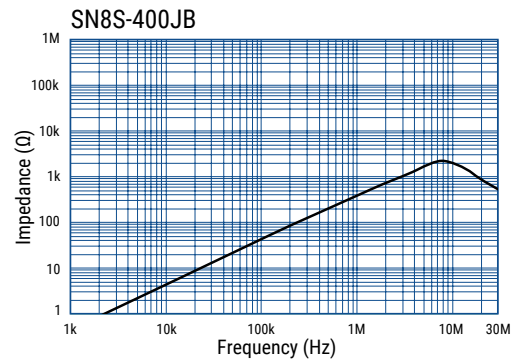
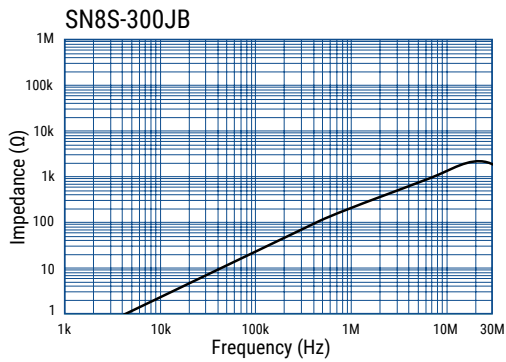
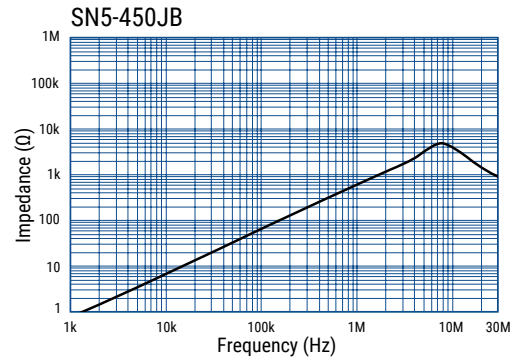
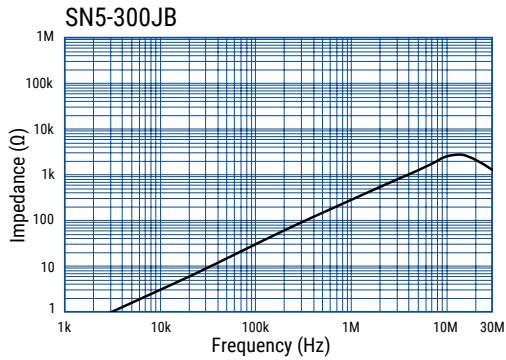
Performance Characteristics

Item	Performance Characteristics
Rated Current Range	1 – 2 A
Rated Inductance Range	25 – 125 μ H minimum
Inductance Measurement Condition	100 kHz
Wire Type	1 PVF, 1 UEW, and 1 PEW
Thermal Class	A (105°C)
Operating Temperature Range	-25°C to +105°C (include self temperature rise)

Table 1 – Ratings & Part Number Reference

Part Number	Rated Current (A)	Inductance (μ H) Minimum	DC Resistance/ Line ($m\Omega$) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Weight (g) Approximate
SN5-300JB	1	25	0.080	18	0.4	3.0
SN5-450JB	1	64	0.110	25	0.4	3.0
SN8S-300JB	2	26	0.055	19	0.6	4.8
SN8S-400JB	2	46	0.070	20	0.6	5.4
SN8S-500JB	2	72	0.085	23	0.6	5.9
SN8D-300JB	2	45	0.070	20	0.6	7.6
SN8D-400JB	2	80	0.085	24	0.6	8.4
SN8D-500JB	2	125	0.100	27	0.6	8.7

Frequency Characteristics



Packaging

Type	Packaging Type	Pieces Per Box
SN5-JB	Tray	1,600
SN8S-JB		240
SN8D-JB		910

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.

Differential Mode SN Coils, SN-P2 Series, Terminal Base Type

Overview

The KEMET SN-P2 coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

Applications

- Home appliances
- Power supplies

Benefits

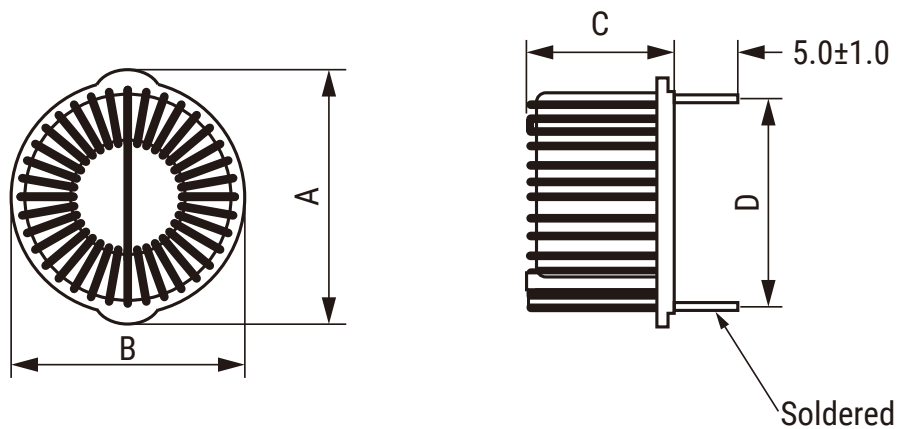
- Proprietary Fe dust core material
- Excellent for normal mode noise countermeasures
- Large core loss
- Wide variety of sizes and specifications
- Operating temperature range from -25°C to $+105^{\circ}\text{C}$
- UL 94 V-0 flame retardant rated cap



Part Number System

SN	5-	30	P2
Series	Dimension Code (See Dimensions)	Specification Code (See Table 1)	Terminal Base Type (See Dimensions)
SN	5 8S	30 40 50	P2

Dimensions – Millimeters



Part Number	Dimensions (mm)			
	A Maximum	B Maximum	C Maximum	D Maximum
SN5-30P2	17.0	14.0	9.0	12.7
SN5-40P2	17.0	14.0	9.0	12.7
SN8S-30P2	19.0	17.0	10.5	15.2
SN8S-40P2	19.0	17.0	10.5	15.2
SN8S-50P2	19.0	17.0	10.5	15.2

Environmental Compliance

All KEMET AC Line Filters are RoHS Compliant.



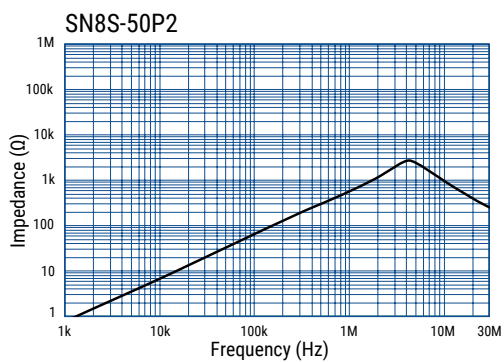
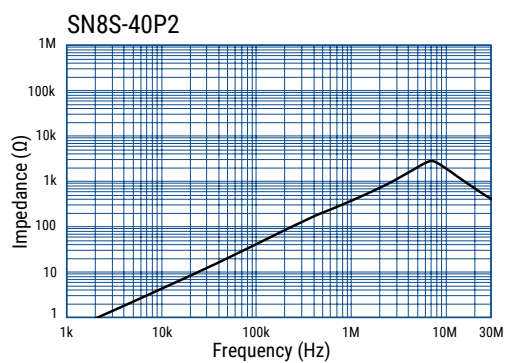
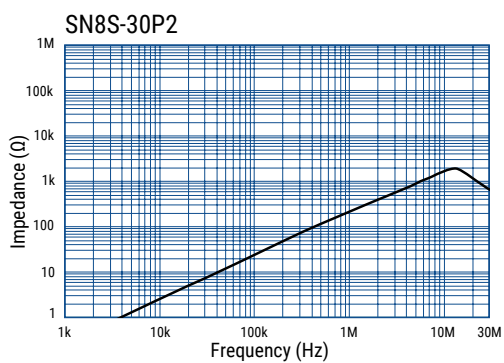
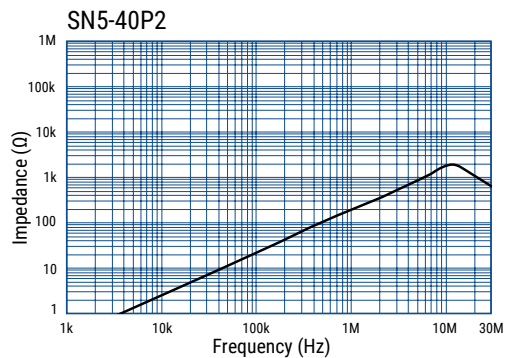
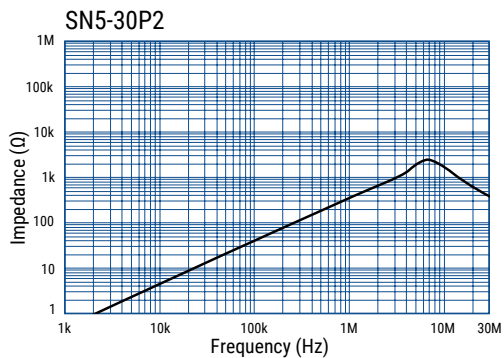
Performance Characteristics

Item	Performance Characteristics
Rated Current	2 A
Rated Inductance Range	25 – 72 μ H minimum
Inductance Measurement Condition	100 kHz
Wire Type	1 PVF, 1 UEW, and 1 PEW
Thermal Class	A (105°C)
Operating Temperature Range	-25°C to +105°C (include self temperature rise)

Table 1 – Ratings & Part Number Reference

Part Number	Rated Current (A)	Inductance (μ H) Minimum	DC Resistance/ Line ($m\Omega$) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Weight (g) Approximate
SN5-30P2	2	25	0.046	18	0.55	3
SN5-40P2	2	48	0.065	22	0.55	3.5
SN8S-30P2	2	26	0.050	19	0.60	5
SN8S-40P2	2	46	0.060	20	0.60	5.2
SN8S-50P2	2	72	0.075	23	0.60	5.5

Frequency Characteristics



Packaging

Type	Packaging Type	Pieces Per Box
SN5-P2	Tray	1,000
SN8S-P2		1,600

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.

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
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Магнитогорск (3519)55-03-13
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 Ноябрьск (3496)41-32-12
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 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37
 Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Саранск (8342)22-96-24
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
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