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



Overview

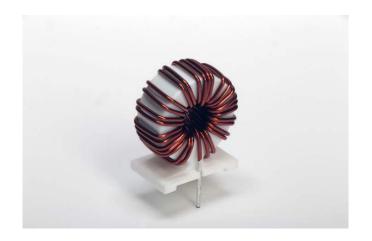
The KEMET SN-J coils are normal mode choke coils with a wide variety of characteristics. These coils are designed with our proprietary Fe dust cores and are useful in various noise countermeasure fields.

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

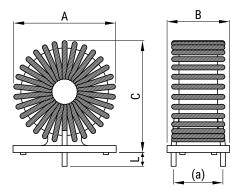
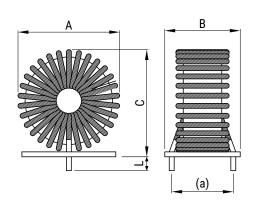


Figure 2





Part Number		Dimensio	Pin Pitch¹ (Reference)	Figure		
T art Number	A (Maximum)	B (Maximum)	C (Maximum)	L	a	riguic
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

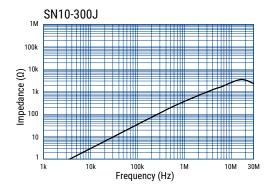
Item	Performance Characteristics		
Rated Current Range	3 – 15 A		
Rated Inductance Range	40 – 270 μH minimum		
Inductance Measurement Condition	100 kHz		
Wire Type	1 PVF, 1 UEW, and 1 PEW		
Thermal Class	A (105°C) and E (120°C)		
Operating Temperature Range	-25°C to +105°C (include self temperature rise) and -25°C to +120°C (include self temperature rise)		

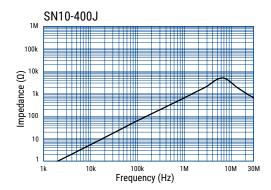
Table 1 – Ratings & Part Number Reference

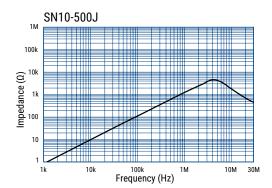
Part Number	Rated Current (A)	Inductance (µH) Minimum	DC Resistance/ Line (mΩ) Maximum	Temperature Rise (K) Maximum	Wire Diameter (mm)	Thermal Class	Weight (g) Approximate
SN10-300J	3	40	0.041	23	0.8	A (105°C)	12.5
SN10-400J	3	72	0.056	27	0.8	A (105°C)	12.9
SN10-500J	3	110	0.071	30	0.8	A (105°C)	14.0
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

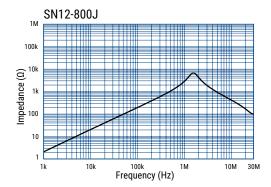


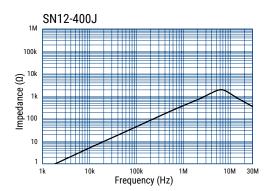
Frequency Characteristics

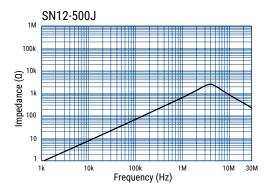


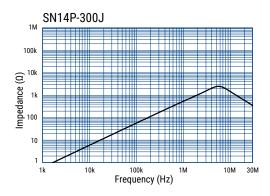


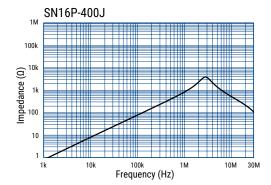














Packaging

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

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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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.

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