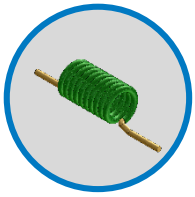
S Series
Air Coil Inductor



Piconics S series inductor is an air-core, ultra-stable, high frequency, conformal coated choke. It can be used in power supply filters as well as a high frequency choke in equipment operating in the 200 MHz to 5 GHz frequency range. The temperature stability is typically + 15ppm/°C. It is easy to handle and is available in a variety of lead geometries. Units exhibit excellent temperature stability and high Q.

Applications:

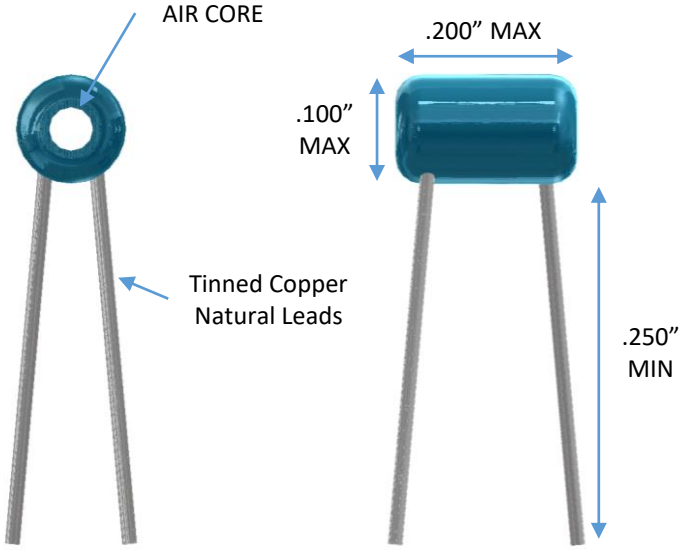
- Bias T's
- Power Supply Filters
- High Frequency Chokes

Features:

- Low Profile
- Ultra Stable
- High Reliability
- Moisture and Fungus Resistant

Mechanicals:

Not Drawn To Scale
Dimensions in Inches



Environmental:

Operating Temp.	-55°C to +125°C
Storage Temp.	-55°C to +125°C
Temperature Rise (@ 90°C)	35°C
Temperature Stability	+15ppm/°C

Physical Characteristics:

Air Core
Epoxy Encapsulated
Self Leaded

PICONICS
High-Quality Micro-Electronic Inductors

S Series Air Coil Specifications

Part Number	L (nH ± %10)	Q Min	Test Freq. (MHz)	SRF Min (GHz)	DCR Max (Ohms)	Idc Max (ma)
S050K	5	60	200	2.5	.1	1000
S060K	6	60	200	2.5	.1	1000
S070K	7	60	200	2.5	.1	1000
S090K	9	60	200	2.5	.1	1000
S100K	10	60	200	2.5	.1	1000
S120K	12	60	200	2.5	.1	1000
S140K	14	60	200	2.5	.1	1000
S150K	15	60	200	2.5	.1	1000
S250K	25	60	200	1.6	.1	1000
S350K	35	60	200	1.4	.1	1000
S400K	40	60	200	1.3	.1	1000
S500K	50	50	100	1.1	.1	1000
S680K	68	50	100	1.0	.1	1000
S700K	70	50	100	1.0	.1	1000
S800K	80	50	100	1.0	.1	1000
S900K	90	50	100	1.0	.1	1000
S101K	100	35	25	.50	.3	500
S111K	110	35	25	.50	.3	500
S121K	120	35	25	.50	.3	500
S131K	130	30	25	.50	.3	500
S141K	140	30	25	.50	.3	500
S151K	150	30	25	.50	.4	500
S161K	160	30	25	.50	.4	500
S181K	180	30	25	.50	.4	500
S191K	190	25	25	.40	.4	500
S211K	210	25	25	.38	.4	500
S241K	240	25	25	.30	.5	500
S251K	250	25	25	.30	.5	500
S271K	270	25	25	.30	.5	500
S301K	300	25	25	.30	.5	500
S331K	330	20	25	.30	.5	500

Alternate values & lead configurations available – Contact Piconics