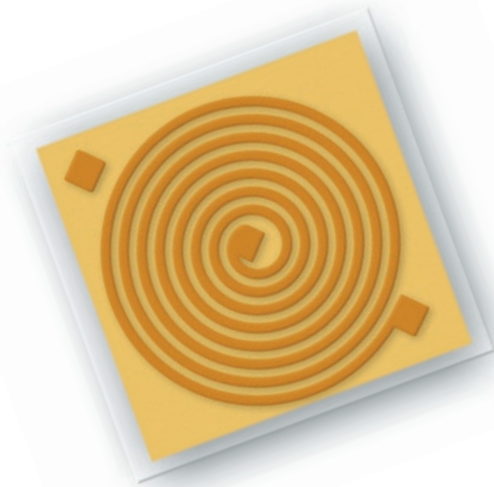
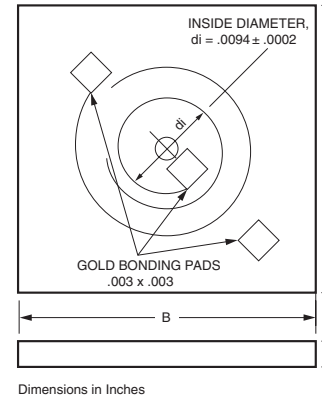


Spiral Inductor Coils

The SemiGen Spiral Inductor Coils are manufactured using our thin film process on quartz substrates. The precision photolithography and non-chemical etching process provides clean edges to assure uniformity from coil to coil. By using quartz and applying a polyimide coating we produce a device that eliminates the need for conformal coating or staking. Inductors can be epoxied down with nonconductive epoxy and the wire bonded for connection.



Model	# of Turns	Inductance L_s (fH) MIN/ TYP/MAX	R_s DC	R_s 1GHz	Q @ FT MIN/MAX	Test Frequency, FT(GHz)	Resonant Frequency, FR(GHz)
SG100	1.5	1.0/1.5/2.0	8.5	1.0	60/75	1.5	4.0
SG101	2.5	2.0/2.3/2.6	1.0	1.4	50/60	1.5	3.6
SG102	3.5	3.6/4.2/5.0	1.15	2.0	40/45	1.5	3.2
SG103	4.5	5.0/7.5/9.0	1.75	3.5	37/43	1.5	2.3
SG104	5.5	8.0/10/12.0	1.85	3.75	33/38	1.0	2.05
SG105	7.5	15/20/25	2.4	4.25	27/33	0.5	1.85
SG106	9.5	32/40/48	4.0	70	23/27	0.5	1.4
SG107	12.5	80/90/100	9.5	22	18/24	0.5	0.975
SG108	15.5	150/200/250	16.5	36	14/18	0.5	0.460
SG109	18.5	250/300/350	20	42	10/15	0.5	0.250



Model	DIM "A" MAX	DIM "B" MAX	DIM "C" MAX
SG100	.030	.030	.012
SG101	.030	.030	.012
SG102	.040	.040	.012
SG103	.040	.040	.012
SG104	.040	.040	.012
SG105	.045	.045	.012
SG106	.055	.055	.012
SG107	.065	.065	.012
SG108	.075	.075	.012
SG109	.085	.085	.012

Features:

- No need for "Staking" Coil
- Passivated Protective Coating Over Coil
- Dimensional Uniformity
- Planar Solid Structure Coil

Applications:

Microwave circuits and power supplies.