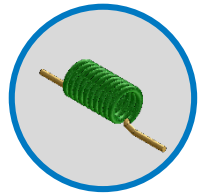




MG Series Air Coil Inductor



MG Series air coil inductors are high frequency inductors which have use in numerous military and commercial microwave communications and radar applications. These devices also serve in a variety of test instrumentation applications.

Applications:

- Bias T's
- Hybrid Modules
- Test Instruments
- Impedance Matching
- High Frequency Filters

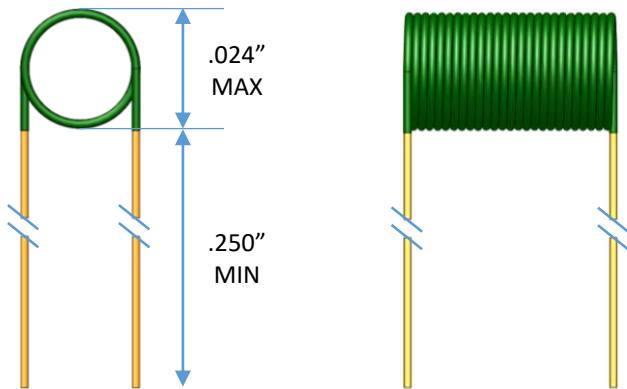


Features:

- Air Core
- Self-Leaded
- Pure Gold Wire
- Up Screen Capable
- Solder Mounting applications

Mechanicals:

Not Drawn To Scale
Dimensions in Inches



Environmental:

Operating Temp.	-55°C to +125°C
Storage Temp.	-55°C to +125°C

Physical Characteristics:

Air Core
Self-Leaded
Thermo-Compression Bondable
47 AWG Gold Wire

Note:

Piconics MG series is similar to the M series, except that it uses gold wire and is suitable for gold wire bonding techniques.



www.piconics.com

ISO 9001:2015

Established 1963

26 Cummings Road | Tyngsboro, MA 01879 | P: 978-649-7501 | sales@piconics.com



Rev A-2021

MG Series Air Coil Specifications							
Part Number **See Note	Length Nom (inches)	L (nH ± %10)	Test Freq. (MHz)	Q Min	SRF (GHz) *See Note	DCR Max (Ohms)	Idc Max (ma)
MG2T47	.004	11	200	21	25	0.37	100
MG3T47	.005	15	200	23	25	0.43	100
MG5T47	.010	25	200	23	15	0.46	100
MG8T47	.014	40	100	19	14	0.55	100
MG10T47	.017	53	100	20	13	0.58	100
MG15T47	.026	86	100	20	11	0.79	100
MG20T47	.034	123	100	19	8	1.00	100
MG25T47	.043	159	25	12	6	1.20	100
MG30T47	.050	195	25	12	6	1.40	100
MG35T47	.060	225	25	12	5	1.70	100
MG40T47	.068	260	25	12	4	1.90	100
MG45T47	.077	300	25	12	3	2.10	100
MG50T47	.085	330	25	12	3	2.30	100
MG55T47	.095	365	25	12	2	2.50	100
MG60T47	.102	400	25	12	2	2.80	100
MG65T47	.112	440	25	12	2	3.00	100
MG70T47	.120	480	25	12	1	3.20	100
MG75T47	.128	520	25	12	1	3.40	100
MG80T47	.136	550	25	12	1	3.60	100
MG85T47	.145	590	25	12	1	3.80	100
MG90T47	.153	630	25	12	1	4.00	100
MG95T47	.162	670	25	12	1	4.20	100
MG100T47	.170	700	25	12	1	4.40	100

Custom Air Coils Available – Contact Piconics

Notes:

*SRF value is for reference only. Value shown is based on calculations and does not include fixturing effects. Measurements performed on 10 mil alumina have yielded lower results

**Base part number shown only. Full part number will be MG2T47.020XXX format. Please consult Piconics Air Coil Ordering Code for XXX part suffix to define lead orientation, Insulation type and lead finish.

