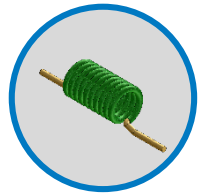




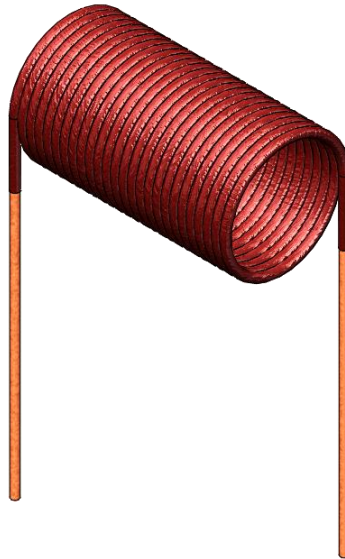
# M Series Air Coil Inductor



M 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
- Test Instruments
- Impedance Matching
- High Frequency Filters

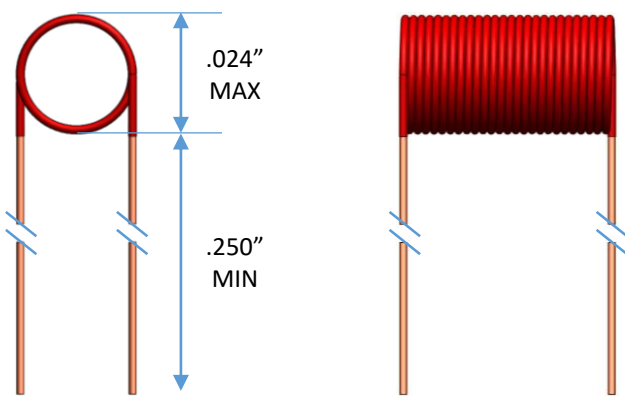


## Features:

- Air Core
- Self-Leaded
- Copper Wire
- Up screen Capable
- Solder Mounting applications

## Mechanicals:

\*Not Drawn To Scale\*  
\*Dimensions in Inches\*



Inner Diameter = .020"

## Environmental:

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

## Physical Characteristics:

Air Core
Self-Leaded
Solder Mounting Applications
47 AWG Copper Wire



[www.piconics.com](http://www.piconics.com)

ISO 9001:2015

Established 1963

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Rev A-2021

## M 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)
<b>M2T47</b>	.004	10.4	200	25	28	.20	100
<b>M3T47</b>	.005	14.1	200	26	25	.23	100
<b>M5T47</b>	.010	24	200	29	15	.29	100
<b>M8T47</b>	.014	39	100	23	14	.38	100
<b>M10T47</b>	.017	50	100	23	13	.46	100
<b>M15T47</b>	.026	80	100	24	11	.61	100
<b>M20T47</b>	.034	116	100	25	8	.76	100
<b>M25T47</b>	.043	146	25	17	6	.91	100
<b>M30T47</b>	.050	178	25	17	6	1.1	100
<b>M35T47</b>	.060	213	25	17	5	1.3	100
<b>M40T47</b>	.068	240	25	17	4	1.4	100
<b>M45T47</b>	.077	282	25	17	3	1.6	100
<b>M50T47</b>	.085	320	25	17	3	1.8	100
<b>M55T47</b>	.095	343	25	17	2	1.9	100
<b>M60T47</b>	.102	388	25	17	2	2.0	100
<b>M65T47</b>	.112	415	25	17	2	2.2	100
<b>M70T47</b>	.120	450	25	17	1	2.3	100
<b>M75T47</b>	.128	485	25	17	1	2.5	100
<b>M80T47</b>	.136	530	25	17	1	2.7	100
<b>M85T47</b>	.145	565	25	17	1	2.9	100
<b>M90T47</b>	.153	615	25	17	1	3.0	100
<b>M95T47</b>	.162	651	25	17	1	3.2	100
<b>M100T47</b>	.170	700	25	17	1	3.4	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.

