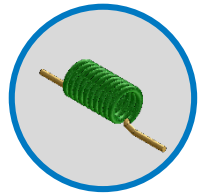




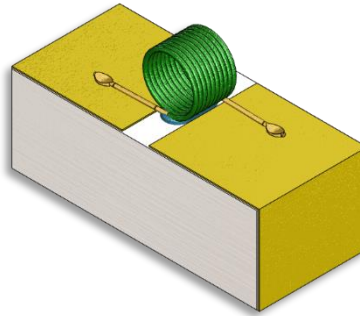
# MC Series Air Coil Inductor



MC Series combine the benefits of high frequency performance of a miniaturized air coil in combination with a surface mountable alumina substrate. Applications range from fiber optic communication links to microwave radio systems.

## Applications:

- Frequency Modulators
- Microwave Radio Systems
- Oscillators, Mixers, Switches
- Fiber Optic Communications

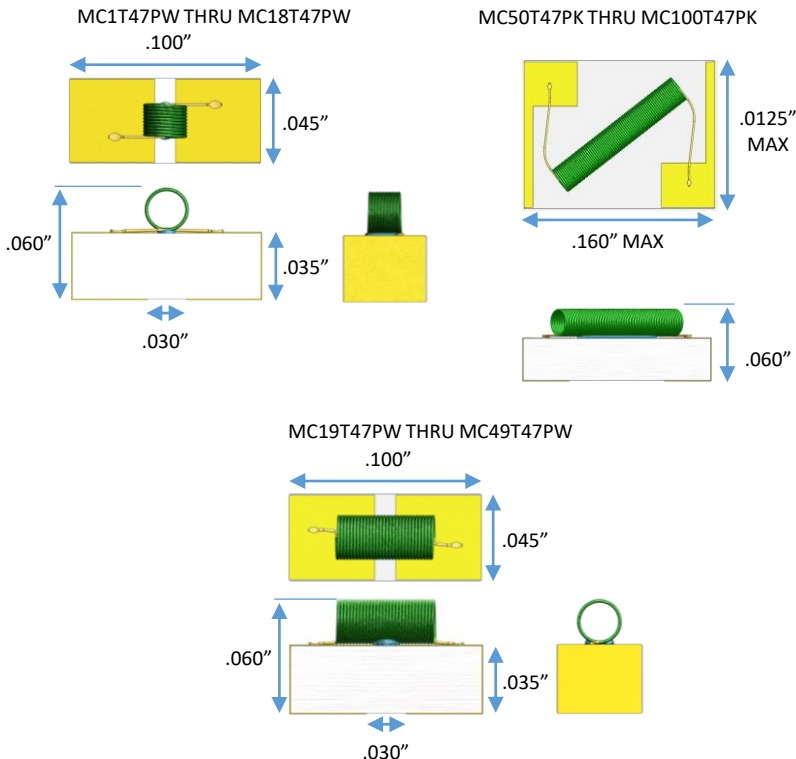


## Features:

- Air Core
- Minimum Height
- Ease of Handling
- Surface Mountable

## Mechanicals:

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



## Environmental:

Operating Temp.	-55°C to +125°C
Storage Temp.	-55°C to +125°C
Temp Rise (@ 90°C)	35°C
Max Current	100 ma DC

## Physical Characteristics:

Air Core
Alumina Substrate Base
Gold Plated Contacts Over Nickel
Weight: 0.1g Maximum



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

ISO 9001:2015

Established 1963

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Rev A-2021

MC Series Air Coil Specifications					
Part Number	L (nH ± %10)	Q Min	Test Freq. (MHz)	SRF Min (GHz)	DCR Max (Ohms)
MC2T47PW	8	21	200	4.6	0.16
MC3T47PW	11	24	200	3.7	0.18
MC5T47PW	21	26	200	2.7	0.26
MC8T47PW	36	21	100	1.8	0.33
MC10T47PW	47	22	100	1.5	0.43
MC15T47PW	76	23	100	1.2	0.55
MC20T47PW	110	24	100	1.0	0.78
MC25T47PW	140	17	25	.97	0.91
MC30T47PW	170	17	25	.94	1.1
MC35T47PW	205	17	25	.91	1.3
MC40T47PW	240	17	25	.88	1.4
MC45T47PW	282	17	25	.87	1.6
MC50T47PK	320	17	25	.87	1.8
MC55T47PK	343	17	25	.86	1.9
MC60T47PK	388	17	25	.85	2.0
MC65T47PK	415	17	25	.85	2.2
MC70T47PK	450	17	25	.84	2.3
MC75T47PK	485	17	25	.80	2.5
MC80T47PK	530	17	25	.78	2.7
MC85T47PK	565	17	25	.75	2.9
MC90T47PK	615	17	25	.73	3.0
MC95T47PK	651	17	25	.70	3.2
MC100T47PK	700	17	25	.65	3.4

Optional wire sizes & tinned terminations available – Contact Piconics

