

# MOX-AC-SERIES

## AIR COILS

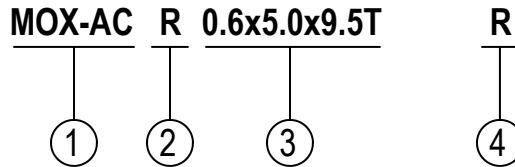
MoxiE's MOX-AC series of air coils are widely used in notebooks, radios, televisions, transceivers and industrial electronics.

### Features:

- Low cost.
- Ultra miniature size and light weight.
- High Q over a wide frequency range.
- RoHS compliant.
- MoxiE Inductor Corporation custom designs available.



## PART NUMBER EXAMPLE



MOXIE CUSTOM DESIGNS AVAILABLE

- ① MOXIE PRODUCT TYPE
- ② WINDING DIRECTION:  
R=CLOCKWISE  
L= COUNTER CLOCKWISE
- ③ COIL DIMENSIONS:  
WIRE DIAMETER: 0.60mm  
INNER DIAMETER: 5.00mm  
NUMBER OF TURNS: 9.5T
- ④ WIRE COLOR: B= BLUE, G=GOLD, R=RED



## NOTES

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# MOX-AC-SERIES



## MECHANICAL DIMENSIONS

<p>MOX-AC1</p>	<p>MOX-AC2</p>	<p>MOX-AC3</p>	<p>MOX-AC4</p>
<p>MOX-AC5</p>	<p>MOX-AC6</p>	<p>MOX-AC7</p>	<p>MOX-AC8</p>
<p>MOX-AC9</p>	<p>MOX-AC9</p>	<p>MOX-AC10</p>	<p>MOX-AC11</p>
<p>MOX-AC12</p>	<p>MOX-AC13</p>	<p>MOX-AC14</p>	<p>MOX-AC15</p>

MOXIE CUSTOM DESIGNS AVAILABLE

# MOX-AC-SERIES



## MECHANICAL DIMENSIONS

<p>MOX-AC16</p>	<p>MOX-AC17</p>	<p>MOX-AC18</p>	<p>MOX-AC19</p>
<p>MOX-AC20</p>	<p>MOX-AC21</p>	<p>MOX-AC22</p>	<p>MOX-AC23</p>
<p>MOX-AC24</p>	<p>MOX-AC25</p>	<p>MOX-AC26</p>	<p>MOX-AC27</p>
<p>MOX-AC28</p>	<p>MOX-AC29</p>	<p>MOX-AC30</p>	<p>MOX-AC31</p>

MOXIE CUSTOM DESIGNS AVAILABLE



# MOXIE AIR COIL WINDING CHART

Inductance (μH)	Number of Turns Diameter = 2.54mm Length = 5.08mm	Number of Turns Diameter = 3.17mm Length = 6.35mm	Number of Turns Diameter = 3.80mm Length = 6.35mm	Number of Turns Diameter = 5.08mm Length = 10.16mm	Number of Turns Diameter = 6.35mm Length = 12.70mm
0.01	3.1	2.8	2.6	2.2	2.0
0.02	4.4	4.0	3.6	3.1	2.8
0.03	5.4	4.8	4.4	3.8	3.4
0.04	6.3	5.6	5.1	4.4	4.0
0.05	7.0	6.3	5.7	4.9	4.4
0.06	7.7	6.9	6.3	5.4	4.8
0.07	8.3	7.4	6.8	5.9	5.2
0.08	8.9	7.9	7.2	6.3	5.6
0.09	9.4	8.4	7.7	6.6	5.9
0.10	9.9	8.9	8.1	7.0	6.3
0.15	12.1	10.8	9.9	8.6	7.7
0.20	14.0	12.5	11.4	9.9	8.9
0.25	15.7	14.0	12.8	11.1	9.9
0.30	17.1	15.3	14.0	12.1	10.8
0.35	18.5	16.6	15.1	13.1	11.7
0.40	19.8	17.7	16.2	14.0	12.5
0.45	21.0	18.8	17.1	14.8	13.3
0.50	22.1	19.8	18.1	15.7	14.0
0.55	23.2	20.8	19.0	16.4	14.7
0.60	24.2	21.7	19.8	17.1	15.3
0.65	25.2	22.6	20.6	17.8	16.0
0.70	26.2	23.4	21.4	18.5	16.6
0.75	27.1	24.2	22.1	19.2	17.1
0.80	28.0	25.0	22.9	19.8	17.7
0.85	28.9	25.8	23.6	20.4	18.3
0.90	29.7	26.6	24.2	21.0	18.8
0.95	30.5	27.3	24.9	21.6	19.3
1.00	31.3	28.0	25.6	22.1	19.8
1.50	38.3	34.3	31.3	27.1	24.2
2.00	44.3	39.6	36.1	31.3	28.0
2.50	49.5	44.3	40.4	35.0	31.3
3.00	54.2	48.5	44.3	38.3	34.3
3.50	58.6	52.4	47.8	41.4	37.0
4.00	62.6	56.0	51.1	44.3	39.6
4.50	66.4	59.4	54.2	47.0	42.0
5.00	70.0	62.6	57.2	49.5	44.3
5.50	73.4	65.7	59.9	51.9	46.4
6.00	76.7	68.6	62.6	54.2	48.5
6.50	79.8	71.4	65.2	56.4	50.5
7.00	82.8	74.1	67.6	58.6	52.4
7.50	85.7	76.7	70.0	60.6	54.2
8.00	88.5	79.2	72.3	62.6	56.0
8.50	91.3	81.6	74.5	64.5	57.7
9.00	93.9	84.0	76.7	66.4	59.4
9.50	96.5	86.3	78.8	68.2	61.0
10.00	99.0	88.5	80.8	70.0	62.6