

Sub-Miniature Adjustable R.F. Coils



The following permeability tuned coils wound on silicone impregnated ceramic forms will find many applications where space restrictions rule out the use of the larger size coils in the 4400 and 4500 series. These coils mount by means of a bushing which requires an 11/64" hole.

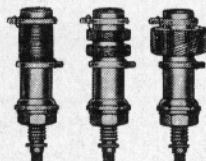
Dimensions (form): 3/16" diameter x 5/8" long.

*Minimum self resonant frequency measured at maximum inductance.

Schematic 18

Miller Part Number	Minimum Core Position			Maximum Core Position			R Ohms Max.	Max. Current Ma.	Min.* Fo. MHz.	Dia. over Winding	Turns
	Inductance Maximum	Q Min.	Test Frequency	Inductance Minimum	Q Min.	Test Frequency					
4301	.190 uh	64	25. MHz	.250 uh	53	25. MHz	.014	1600	288.	.312	5¼
4302	.300 uh	57	25. MHz	.390 uh	44	25. MHz	.017	1600	212.	.312	7¼
4303	.440 uh	61	25. MHz	.620 uh	44	25. MHz	.031	1000	184.	.312	9¼
4304	.770 uh	62	25. MHz	.900 uh	41	25. MHz	.054	636	148.	.312	11¼
4305	1.00 uh	40	7.9 MHz	1.40 uh	37	7.9 MHz	.15	256	114.	.312	13¼
4306	1.60 uh	40	7.9 MHz	2.40 uh	36	7.9 MHz	.25	202	92.	.312	17¼
4307	2.70 uh	40	7.9 MHz	4.20 uh	36	7.9 MHz	.62	100	69.	.312	21¼
4308	4.70 uh	42	7.9 MHz	6.80 uh	33	7.9 MHz	.91	100	60.	.312	30¼
4309	7.80 uh	30	7.9 MHz	11.0 uh	42	2.5 MHz	1.4	100	18.	.312	34
4310	14.0 uh	34	2.5 MHz	19.0 uh	37	2.5 MHz	1.9	100	13.	.312	47
4311	22.0 uh	33	2.5 MHz	31.0 uh	38	2.5 MHz	2.2	100	12.	.343	73
4312	36.0 uh	32	2.5 MHz	49.0 uh	33	2.5 MHz	3.1	100	9.6	.375	75
4313	56.0 uh	23	2.5 MHz	97.0 uh	24	2.5 MHz	5.6	64	7.3	.375	91
4314	111 uh	26	.79 MHz	171. uh	26	.79 MHz	7.9	64	6.0	.406	134
4315	196 uh	25	.79 MHz	285. uh	24	.79 MHz	11.	64	4.4	.437	164

Standard Adjustable R.F. Coils



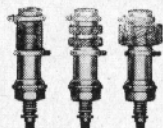
This series of variable inductors offers a higher Q coil with a slightly larger inductance range than can be obtained in either of the two smaller series. The same high grade silicone-impregnated ceramic forms are used in their construction to insure a product of high quality. These coils mount by means of a bushing that requires a 1/4" diameter mounting hole. Hardware consisting of nut, lock washer, and spring clip is supplied.

Dimensions (form): 3/8" diameter x 1 1/16" long.

*Minimum self resonant frequency measured at maximum inductance.

Schematic 18

Miller Part Number	Minimum Core Position			Maximum Core Position			R Ohms Max.	Max. Current Ma.	Min.* Fo. MHz.	Dia. over Winding	Turns
	Inductance Maximum	Q Min.	Test Frequency	Inductance Minimum	Q Min.	Test Frequency					
4403	.990 uh	18	25. MHz	1.50 uh	57	7.9 MHz	.04	1600	75.	.500	9¼
4404	1.60 uh	67	7.9 MHz	3.10 uh	52	7.9 MHz	.08	1000	51.	.500	12¼
4405	3.30 uh	70	7.9 MHz	6.50 uh	44	7.9 MHz	.17	636	41.	.500	18¼
4406	7.30 uh	50	7.9 MHz	14.0 uh	35	2.5 MHz	.57	256	26.	.500	26¼
4407	16.0 uh	52	2.5 MHz	29.0 uh	56	2.5 MHz	2.2	100	7.6	.500	34
4408	33.0 uh	51	2.5 MHz	66.0 uh	37	2.5 MHz	3.1	100	4.9	.500	49
4409	74.0 uh	42	2.5 MHz	124 uh	44	.79 MHz	4.5	100	3.7	.500	73
4410	138 uh	47	.79 MHz	238 uh	44	.79 MHz	6.6	100	3.0	.531	103
4411	270 uh	57	.79 MHz	451 uh	43	.79 MHz	8.9	100	2.2	.562	138
4412	495 uh	56	.79 MHz	760 uh	41	.79 MHz	12.	100	2.0	.625	180
4413	825 uh	41	.79 MHz	1.30 mh	27	.25 MHz	20.	100	1.7	.593	268
4414	1.40 mh	40	.25 MHz	2.00 mh	33	.25 MHz	25.	100	1.6	.656	346



Miniature Adjustable R.F. Coils

A new series of small adjustable coils designed for the most exacting requirements. Wound on silicone impregnated high grade ceramic forms. Tuning is by means of a powdered iron core. These coils require little space and are for mounting in a 3/16" diameter hole.

Dimensions (form): 1/4" diameter x 7/8" long.

*Minimum self resonant frequency measured at maximum inductance.

Schematic 18

Miller Part Number	Minimum Core Position			Maximum Core Position			R Ohms Max.	Max. Current Ma.	Min.* Fo. MHz.	Dia. over Winding	Turns
	Inductance Maximum	Q Min.	Test Frequency	Inductance Minimum	Q Min.	Test Frequency					
4501	.440 uh	80	25. MHz	.760 uh	52	25. MHz	.03	1600	142.	.406	8¼
4502	1.10 uh	72	25. MHz	1.50 uh	40	7.9 MHz	.06	1000	96.	.406	12¾
4503	1.70 uh	51	7.9 MHz	2.70 uh	36	7.9 MHz	.11	636	80.	.406	17¼
4504	3.10 uh	56	7.9 MHz	4.80 uh	33	7.9 MHz	.23	400	58.	.406	23¼
4505	5.50 uh	60	7.9 MHz	8.60 uh	33	7.9 MHz	.49	256	45.	.406	33
4506	9.90 uh	52	7.9 MHz	15.0 uh	41	2.5 MHz	1.5	100	32.	.406	40
4507	17.0 uh	47	2.5 MHz	23.0 uh	53	2.5 MHz	2.3	100	19.	.406	50
4508	26.0 uh	48	2.5 MHz	33.0 uh	51	2.5 MHz	2.9	100	16.	.406	62
4509	38.0 uh	50	2.5 MHz	57.0 uh	48	2.5 MHz	3.4	100	12.	.406	76
4511	66.0 uh	44	2.5 MHz	114. uh	40	.79 MHz	4.1	100	5.2	.406	88
4512	120. uh	46	.79 MHz	190. uh	40	.79 MHz	5.7	100	4.1	.437	117
4513	209. uh	45	.79 MHz	314. uh	32	.79 MHz	7.7	100	3.2	.468	157
4514	350. uh	53	.79 MHz	475. uh	41	.79 MHz	10.	100	2.9	.500	193
4514-1	528. uh	44	.79 MHz	760. uh	40	.79 MHz	14.	100	2.5	.562	234

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