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20A225RBI 20A335RBI 20A475RBI 20A685RBI 20A825RBI
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50A154EBI 50A224EBI 50A334EBI 50A474EBI 50A684EBI
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50A473EBI 50A683EBI 50A823EBI



2001-5, 2007, 2010, 2012, 2021-3, 2031-2,
2041-2, 2051, 9-C1, 9-C2

Transistor Coils & I.F. Transformers

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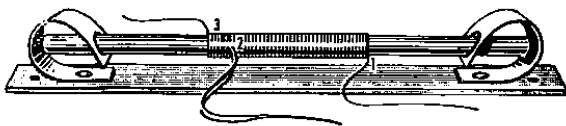
FERRITE LOOPS

All loops described below have a secondary which is overcoupled for maximum gain stability with a variation in output load. Designed to match an input impedance of approximately 600 ohms.

These loops can be easily removed from their mounting boards if an alternate method of mounting is desired. Care should be exercised when mounting loops to insure that they are not in close proximity to large metal objects. This precaution will greatly increase loop efficiency.

These loops also make excellent antenna coils for conventional vacuum tube receivers. They offer better signal pickup and increased selectivity over ordinary air loops.

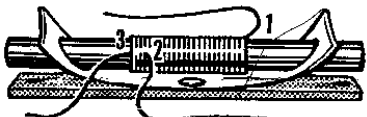
STANDARD ANTENNA LOOP



Due to its large pickup area the #2000 is one of our most popular loops. It has a fixed inductance of 240 uh and covers a band of 540-1650 KC when used with a variable condenser having a range of 15-365 mmf. Dimensions: 3/4" x 9".

Cat. No.	Q @ 790 KC	Freq. Range	Tuning Cond. Max. Capacity
2000	450	540-1650 KC	365 mmf.

MINIATURE ANTENNA LOOP



Similar to the #2000 described above but smaller in size for miniature sets. Slightly less signal pickup than the #2000, but extremely high Q. Catalog #2001 has an inductance of 240 uh for use with a standard 365 mmf. condenser (Miller #2112). The #2003 has an inductance of 700 uh for use with a miniature 130 mmf. condenser (Miller #2110).

Dimensions: 3/4" x 3 3/4"

Cat. No.	Q @ 790 KC	Freq. Range	Tuning Cond. Max. Capacity
2001	550	540-1650 KC	365 mmf.
2003	500	540-1650 KC	130 mmf.

FLAT FERRITE LOOPS

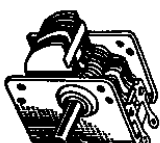


These coils are wound on flat ferrite strips rather than the normal ferrite rods. Due to this unique physical configuration they are remarkably sensitive for their small size. The #2004 has an inductance of 240 uh. To be used with a condenser of 365 mmf. (Miller #2112). The #2005 has an inductance of 700 uh. To be used with a condenser of 130 mmf. (Miller #2110).

Dimensions 1/4 x 3/4 x 3-3/4"

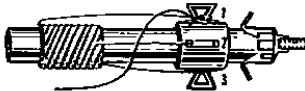
Cat. No.	Q @ 790-KC	Freq. Range	Tuning Cond. Max. Capacity
2004	500	540-1650 KC	365 mmf.
2005	450	540-1650 KC	130 mmf.

VARIABLE CONDENSERS



Catalog #2110 is a miniature 2-gang variable condenser. The antenna section has a range of 10-130 mmf. The oscillator section has a range of 10-78 mmf. Trimmer capacitors are self-contained and have a range of approximately 12 mmf. Tapped mounting holes are provided on both the

SUB-MINIATURE ANTENNA LOOP



Adjustable antenna coils with high Q ferrite cores. Inductance range of part #2002 is 40-300 uh; part #2007 is 150-1000 uh. The inductances ranges shown allow for the use of variable capacitors outside our recommended values. Dimensions: 1/2" x 2 1/2".

Cat. No.	Q @ 790 Kc	Freq. Range	Tuning Cond. Max. Capacity
2002	250	540-1650 Kc	250-450 mmf.
2007	220	540-1650 Kc	100-250 mmf.

SUB-MINIATURE



To our knowledge the 9-C1 and 9-C2 are the smallest I.F. transformers in existence. All technical specifications for the 2041 and 2042 apply respectively to the 9-C1 and 9-C2. Dimensions: 3/8" sq. x 5/8" high.

Manufactured under K-TRAN patents of and by Automatic Manufacturing Corp.

Cat. No.	Freq.	Impedance	Use
9-C1	455 KC	25K—600 Ohms	Input
9-C2	455 KC	25K—1000 Ohms	Output

MINIATURE TRANSISTOR I.F. TRANSFORMERS



Having a tapped tuned primary and untuned secondary windings. Proper impedance match between primary and secondary insures optimum performance.

Dimensions: 1/2" sq. x 3/4" high.

Cat. No.	Freq.	Impedance	Use
2031	455 KC	10K—600 Ohms	Input
2032	455 KC	10K—1000 Ohms	Output
2041	455 KC	25K—600 Ohms	Input
2042	455 KC	25K—1000 Ohms	Output
2051	455 KC	100K—1000 Ohms	Input

SHIELDED SUB-MINIATURE OSC.



The 2021 oscillator coil is a sub-miniature shielded version of the #2022 described above. Identical in size to our 9-C1 and 9-C2 I.F. transformers. Designed for use with a condenser having a maximum capacity of approximately 78 mmf. (Miller #2110).

Dimensions: 3/8" sq. x 5/8" high.

Cat. No.	Tuning Cond. Max. Capacity	I.F. Freq.	Use
2021	78	455 KC	Osc.

UNSHIELDED MINIATURE OSC.



The 2020 oscillator coil (Revised 5-lug) is designed for use in a converter oscillator circuit where only a single transistor is required. The 2023 oscillator coil (6-lug, is for use where a separate transistor is used for the oscillator and another transistor for the mixer. A suitable padder must be used with the 365 mmf. variable. The 2022 is similar to the #2020 except it is for use with a

cut section variable (Miller #2110). Dimensions: 3/8" x 1" high.

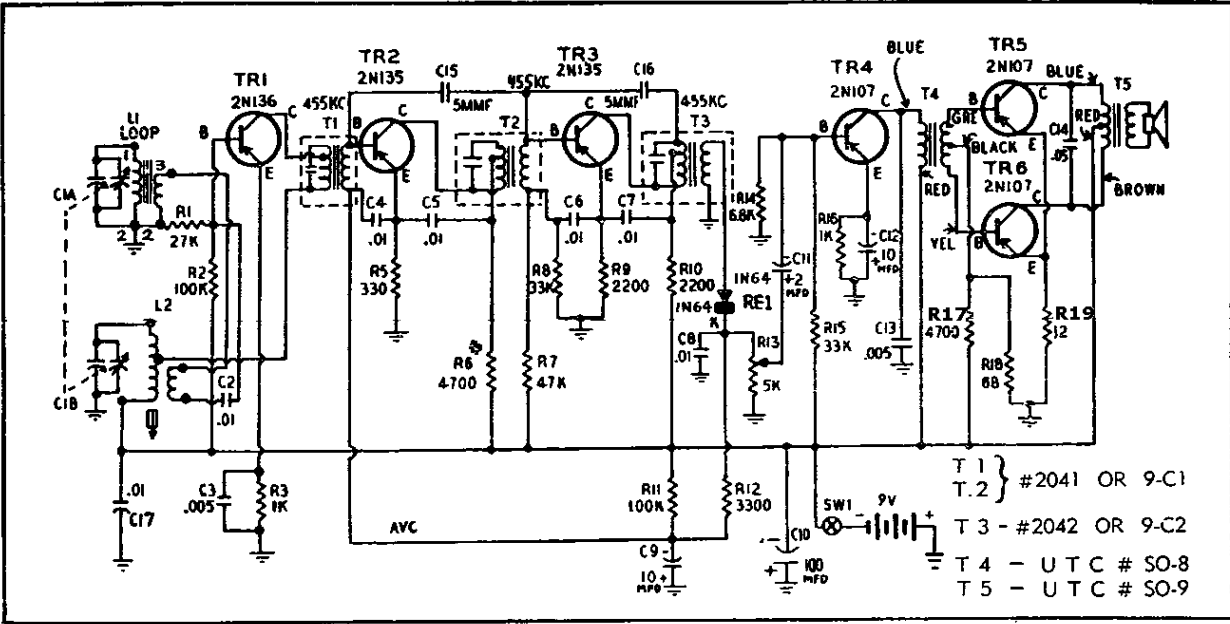
Cat. No.	Tuning Cond. Max. Capacity	I.F. Freq.	Use
2020	365 mmf.	455 Kc	Osc.
2022	78-100 mmf.	455 Kc	Osc.
2023	365 mmf.	455 Kc	Osc.

front and back of condensers. Counter clockwise rotation. Shaft is 1/4" dia. x 3/4" long.

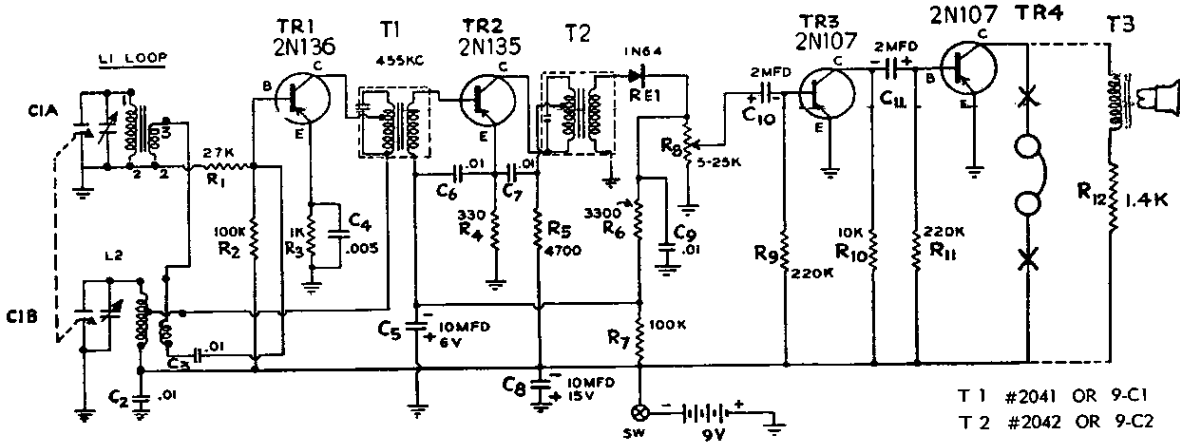
Catalog #2112 is a standard size 2-gang condenser having a range of 0-365 mmf. for both sections. Shaft is 1/4" dia. x 1 1/8" long.

Cat. No.	Sections	Dimensions
2110	2	1 5/8" x 1 3/8" x 1 5/8"
2112	2	2 3/8" x 1 3/8" x 1 5/8"

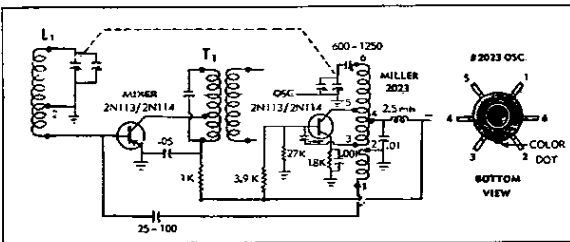
We consider the circuits below to be the finest of recent transistor designs. Miller coils and transformers engineered specifically for these receivers are shown on the reverse side of this sheet. A push-Pull audio output stage, operated Class "B" insures maximum efficiency and long battery life.



A QUALITY RECEIVER DESIGNED FOR A SMALL BUDGET, HIGH GAIN, R-C COUPLED AUDIO AMPLIFIER STAGES ELIMINATE THE NEED FOR EXPENSIVE AUDIO TRANSFORMERS.



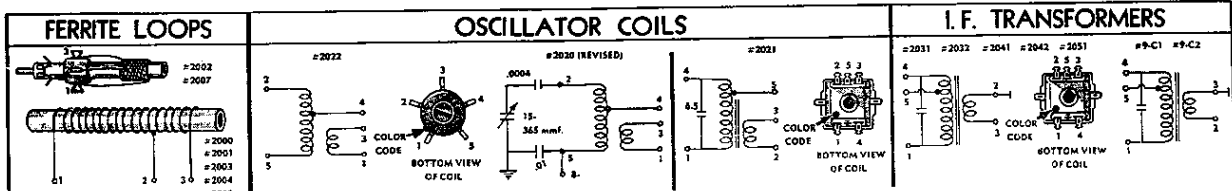
----- DOTTED LINES ON DIAGRAM SHOW ALTERNATE CONNECTION FOR SPEAKER OPERATION. DISCONNECT EARPHONES AT X MARKS IF OUTPUT TRANSFORMER AND SPEAKER ARE ADDED.



The Miller No. 2023 OSC. Coil is a revised version of the original 6 lug No. 2020 OSC. Coil which appeared in articles of the Radio Electronics Magazine, and featured in the Sylvania's Transistor Manual.

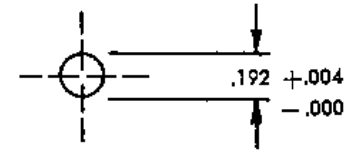
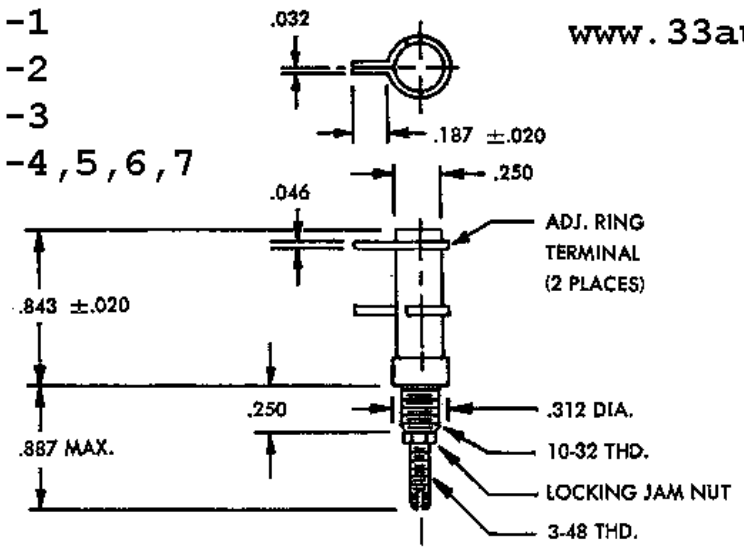
MILLER TRANSISTOR ANT. LOOPS & OSC. COILS

- | | |
|---|--|
| L1 # 2000
2001
2002
2004 | } ANT. LOOPS TO TUNE 540-1650 KC WITH A 365 MMF. VARIABLE CONDENSER (MILLER #2112) |
| L2 # 2020
2023 | } 455 KC OSC. COILS TO WORK WITH ABOVE ANT. LOOPS, USING A 365 MMF. VARIABLE CONDENSER (MILLER #2112) |
| L1 # 2003
2005
2007 | } ANT. LOOPS TO TUNE 540-1650 KC WITH A 130 MMF. VARIABLE CONDENSER (MILLER #2110) |
| L2 # 2021
2072 | } 455 KC OSC. COILS TO WORK WITH ABOVE ANT. LOOPS, USING A SPLIT SECTION VARIABLE CONDENSER. MAX. CAP. 78 MMF. (MILLER #2110). |



20A000-1
 20A000-2
 20A000-3
 20A000-4, 5, 6, 7

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TOLERANCES: ±.005" UNLESS OTHERWISE SPECIFIED.

BASIC PART NO. 20A000
 2 WIRE RING TERMINALS

HOW TO ORDER: SPECIFY THE BASIC PART NUMBER WITH THE APPROPRIATE DASH NUMBER.

EXAMPLE: BASIC PART NO. 20A000 DASH NO. -0 THRU -7

DASH NO.	RECOMMENDED FREQ. MHz.	CORE PART NO.	CORE MATERIAL	BASIC POWDER	COLOR CODE
-0	FORM LESS CORE				
-1	.2 - 1.5	30-202-1	POWDERED IRON	CARBONYL C	YELLOW
-2	1.0 - 20.0	30-202-2		CARBONYL E	RED
-3	20.0 - 50.0	30-202-3		CARBONYL J	GREEN
-4	50.0 - 200.0	30-202-4		IRN 9	WHITE
-5	100.0 & UP	30-202-5	BRASS		NONE
-6	2.0 - 40.0	30-202-6	POWDERED IRON	CARBONYL TH	PURPLE
-7	40.0 - 300.0	30-202-7	POWDERED IRON	CARBONYL SF	BLUE

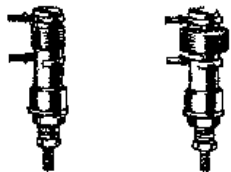
COMPONENT	MATERIAL	FINISH
COIL FORM	PAPER PHENOLIC (PBG)	VARNISH IMPREGNATED
SOLDER RING TERMINAL	BRASS	CADMIUM PLATE .0003
TUNING CORE	BRASS	RHODIUM FLASH OVER SILVER PLATE .0003
	POWDERED IRON	MOISTURE PROOFED CADMIUM PLATE .0003
MOUNTING STUDS	BRASS	CADMIUM PLATE .0003
LOCKING JAM NUT	BRASS	CADMIUM PLATE .0002
UNASSEMBLED MOUNTING HARDWARE		
MOUNTING HEX NUT	BRASS	CADMIUM PLATE .0002
INTERNAL TOOTH LOCKWASHER	PHOSPHOR BRONZE	CADMIUM PLATE .0003

NOTE: COILS CAN BE WOUND ON THIS FORM TO YOUR SPECIFICATIONS.

USED ON: STOCK	J. W. MILLER COMPANY	BASIC PART NO.
DWG. BY W. E. K.		20A000
APP. BY W. R. C.	19070 REYES AVENUE	P. O. BOX 5825
DATE: 12-26-65	COMPTON, CALIF. 90224	DWG. NO. 20A000-0-7

20AxxxRBI 107 157 227 337 477 687 827 106 156
 226 336 476 686 826 105 155 225 335 475 685 825
 104 154 224 334 474 684 824 103

Resinite Adjustable R.F. Coils



Resinite is a phenolic impregnated tubing which combines the mechanical and dielectric advantages of phenolics with the high dielectric strength, moisture resistance, and non-corrosive properties of cellulose acetate. Resinite can be certified to MIL-P-79B Type PBC. This series features an extremely wide choice of inductance ranges and utilizes only the highest quality commercial materials throughout. They find application where the severe moisture resistant characteristics of the encapsulated units and the mechanical properties of the ceramics are not required.

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Miniature Adjustable R.F. Coils

COILS WOUND ON FORM NO. 20A000

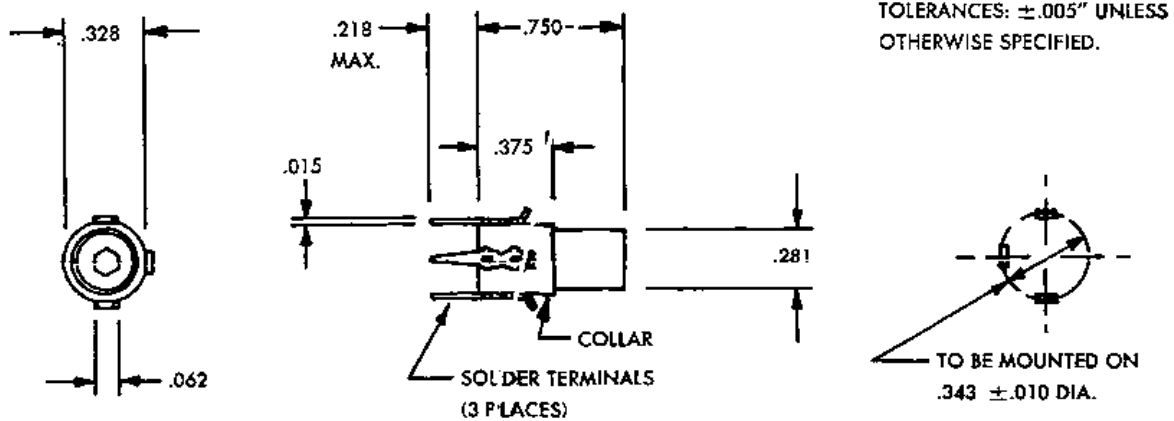
Dimensions (form): 1/4" Diameter x 13/16" long. Mounting hole 13/64".

Miller Part Number	Maximum Core Position			Minimum Core Position			R Ohms Maximum	Maximum Current Milliamperes	Diameter over Winding	Turns
	Inductance Minimum	Q Min.	Test Frequency	Inductance Maximum	Q Min.	Test Frequency				
20A107RBI	.120 uh	51	25. MHz	.088 uh	56	25. MHz	.041	1600	.343	3
20A157RBI	.180 uh	72	25. MHz	.108 uh	77	25. MHz	.044	1600	.343	4
20A227RBI	.264 uh	68	25. MHz	.162 uh	77	25. MHz	.051	1600	.343	5
20A337RBI	.396 uh	68	25. MHz	.238 uh	64	25. MHz	.054	1000	.343	6
20A477RBI	.564 uh	60	25. MHz	.356 uh	66	25. MHz	.078	1000	.343	7
20A687RBI	.816 uh	50	25. MHz	.508 uh	72	25. MHz	.082	635	.343	8
20A827RBI	.984 uh	41	25. MHz	.735 uh	57	25. MHz	.090	635	.343	9
20A106RBI	1.20 uh	42	7.9 MHz	.885 uh	53	25. MHz	.135	400	.343	10
20A156RBI	1.80 uh	44	7.9 MHz	1.08 uh	44	7.9 MHz	.205	400	.343	12
20A226RBI	2.64 uh	44	7.9 MHz	1.62 uh	39	7.9 MHz	.522	100	.343	13
20A336RBI	3.96 uh	42	7.9 MHz	2.38 uh	40	7.9 MHz	.640	100	.343	17
20A476RBI	5.64 uh	42	7.9 MHz	3.56 uh	44	7.9 MHz	.770	100	.343	20
20A686RBI	8.16 uh	40	7.9 MHz	5.08 uh	43	7.9 MHz	.950	100	.343	24
20A826RBI	9.84 uh	38	7.9 MHz	7.35 uh	45	7.9 MHz	1.00	100	.343	28
20A105RBI	12.0 uh	45	2.5 MHz	8.85 uh	37	7.9 MHz	1.45	100	.343	31
20A155RBI	18.0 uh	52	2.5 MHz	10.8 uh	34	2.5 MHz	1.70	100	.343	37
20A225RBI	26.4 uh	42	2.5 MHz	16.2 uh	39	2.5 MHz	2.10	100	.343	46
20A335RBI	39.6 uh	40	2.5 MHz	23.8 uh	40	2.5 MHz	2.59	100	.343	57
20A475RBI	56.4 uh	37	2.5 MHz	35.6 uh	42	2.5 MHz	3.10	100	.343	68
20A685RBI	81.6 uh	32	2.5 MHz	50.8 uh	36	2.5 MHz	3.84	100	.343	80
20A825RBI	98.4 uh	36	2.5 MHz	73.5 uh	38	2.5 MHz	4.71	100	.375	94
20A104RBI	120. uh	37	.79 MHz	88.5 uh	32	2.5 MHz	5.00	100	.406	105
20A154RBI	180. uh	40	.79 MHz	108. uh	28	.79 MHz	5.95	100	.406	125
20A224RBI	264. uh	38	.79 MHz	162. uh	40	.79 MHz	7.50	100	.406	134
20A334RBI	396. uh	44	.79 MHz	238. uh	43	.79 MHz	9.50	100	.437	187
20A474RBI	564. uh	38	.79 MHz	356. uh	43	.79 MHz	12.0	100	.500	224
20A684RBI	816. uh	32	.79 MHz	508. uh	40	.79 MHz	14.5	100	.500	266
20A824RBI	984. uh	32	.79 MHz	735. uh	38	.79 MHz	17.0	100	.562	308
20A103RBI	1.20 mh	24	.25 MHz	885. uh	40	.79 MHz	21.0	100	.594	341

USED ON: STOCK	J. W. MILLER COMPANY 19070 REYES AVENUE P.O. BOX 5825 COMPTON, CALIF. 90224	STANDARD PART NO.
DWG. BY W. E. K.		20A107RBI
APP. BY W. R. C.		THRU
DATE: 2-21-66		20A103RBI
SCALE: N. T. S.	DWG. NO. 20A107-103RBI	

23A013-0 thru 23A013-7

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TOLERANCES: ±.005" UNLESS OTHERWISE SPECIFIED.

BASIC PART NO. 23A013
1 COLLAR, 3 TERMINALS

HOW TO ORDER: SPECIFY THE BASIC PART NUMBER WITH THE APPROPRIATE DASH NUMBER.

EXAMPLE: BASIC PART NO. 23A013 DASH NO. -0 THRU -7

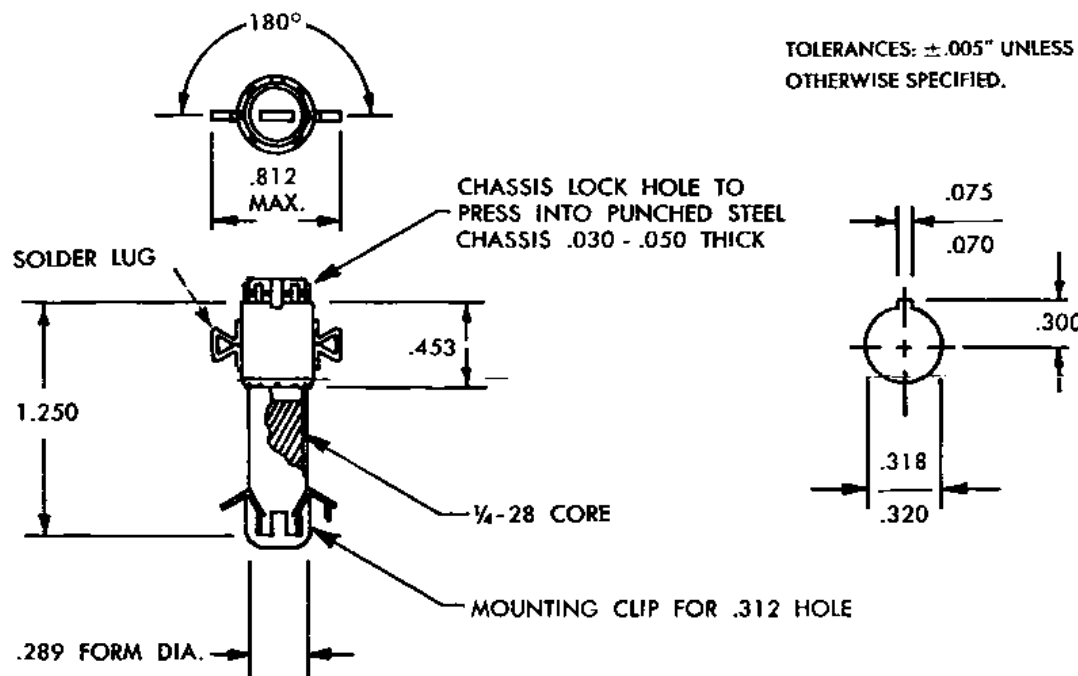
DASH NO.	RECOMMENDED FREQ. MHZ.	CORE PART NO.	CORE MATERIAL	BASIC POWDER	COLOR CODE
-0	FORM LESS CORE				
-1	.2 - 1.5	30-207-1	POWDERED IRON	CARBONYL C	YELLOW
-2	1.0 - 20.0	30-207-2		CARBONYL E	RED
-3	20.0 - 50.0	30-207-3		CARBONYL J	GREEN
-4	50.0 - 200.0	30-207-4		IRN 9	WHITE
-5	100.0 & UP	30-207-5	BRASS		NONE
-6	2.0 - 40.0	30-207-6	POWDERED IRON	CARBONYL TH	PURPLE
-7	40.0 - 300.0	30-207-7	POWDERED IRON	CARBONYL SF	BLUE

COMPONENT	MATERIAL	FINISH
COIL FORM	ALPHA-CELLULOSE	POLYESTER IMPREGNATED
COLLAR	RESINITE	
TUNING CORE	POWDERED IRON	MOISTURE PROOFED
	BRASS	RHODIUM FLASH OVER SILVER PLATE .0003
SOLDER TERMINAL	BRASS	ELECTRO-TIN PLATE

NOTE: COILS CAN BE WOUND ON THIS FORM TO YOUR SPECIFICATIONS.

USED ON: STOCK	J. W. MILLER CO. 5917 SO. MAIN LOS ANGELES, CALIF.	BASIC PART NO.
DWG. BY W. E. K.		23A013
APP. BY W. R. C.		
DATE: 12-28-65		
SCALE: N. T. S.	DWG. NO. 23A013-0-7	

4200 basic part type



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BASIC PART NO. 4200
2 LUG TERMINALS

HOW TO ORDER: SPECIFY THE BASIC PART NUMBER WITH THE APPROPRIATE DASH NUMBER.

EXAMPLE: BASIC PART NO. 4200 DASH NO. -0 THRU -8

DASH NO.	RECOMMENDED FREQ. MHz.	CORE PART NO.	CORE MATERIAL	BASIC POWDER	COLOR CODE
-0	FORM LESS CORE				
-1	.2 - 1.5	30-207-1	POWDERED IRON	CARBONYL C	YELLOW
-2	1.0 - 20.0	30-207-2		CARBONYL E	RED
-3	20.0 - 50.0	30-207-3		CARBONYL J	GREEN
-4	50.0 - 200.0	30-207-4		IRN 9	WHITE
-5	100.0 & UP	30-207-5	BRASS		NONE
-6	2.0 - 40.0	30-207-6	POWDERED IRON	CARBONYL TH	PURPLE
-7	40.0 - 300.0	30-207-7		CARBONYL SF	BLUE
-8	UNDER 25	30-207-8	FERRITE	Q1	NONE

COMPONENT		MATERIAL	FINISH
COIL FORM		NYLON	CADMIUM PLATE .0003
SOLDER LUG TERMINAL		BRASS	
TUNING	BRASS	BRASS	RHODIUM FLASH OVER SILVER PLATE .0003
CORE	POWDERED IRON	CORE: POWDERED IRON	MOISTURE PROOFED.
MOUNTING CLIP		STEEL	CADMIUM PLATE .0003

NOTE: COILS CAN BE WOUND ON THIS FORM TO YOUR SPECIFICATIONS.

USED ON: STOCK	J. W. MILLER CO. 5917 SO. MAIN LOS ANGELES, CALIF.	BASIC PART NO.
DWG. BY W. E. K.		4200
APP. BY W. R. C.		
DATE: 10-26-65		

4201 thru 4209

Economy Adjustable R.F. Chokes



Through the use of a recently developed Nylon molding process we are able to offer an inexpensive line of adjustable chokes. These items feature a wide inductance range which has been achieved through the use of a threaded ferrite core. They can be adjusted from either the top or bottom. This lends a degree of flexibility to your design. Mounting is achieved by means of a metal clip in a $\frac{1}{16}$ " round hole or a special keyed hole. Instructions supplied with each coil.
 Dimensions: $\frac{3}{8}$ " x $1 \frac{3}{8}$ " long.

*Minimum self resonant frequency measured at maximum inductance.

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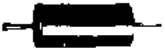
Miller Part Number	Minimum Core Position			Maximum Core Position			R Ohms Max.	Max. Current Ma.	Min. ^o Fo. MHz.	Dia. over Winding	Turns
	Inductance Maximum	Q Min.	Test Frequency	Inductance Minimum	Q Min.	Test Frequency					
4201	.300 uh	75	25 MHz	.580 uh	64	25 MHz	.04	636	160	.375	4½
4201-A	.550 uh	78	25 MHz	1.10 uh	56	25 MHz	.05	636	112	.375	6½
4202	1.00 uh	73	25 MHz	2.50 uh	78	25 MHz	.15	400	78	.375	10½
4203	2.00 uh	56	7.9 MHz	5.50 uh	59	7.9 MHz	.19	400	54	.375	17½
4204	5.00 uh	72	7.9 MHz	12.0 uh	97	7.9 MHz	1.1	126	37	.375	28
4205	10.0 uh	33	7.9 MHz	25 uh	88	7.9 MHz	1.6	100	11	.406	33
4206	20.0 uh	45	2.5 MHz	55 uh	68	2.5 MHz	2.3	100	7.7	.406	46
4207	50.0 uh	42	2.5 MHz	140 uh	83	2.5 MHz	4.0	100	4.0	.406	80
4208	120 uh	49	.79 MHz	330 uh	80	.79 MHz	6.6	100	2.9	.437	126
4209	310 uh	44	.79 MHz	860 uh	40	.79 MHz	12	100	1.6	.468	204

USED ON: STOCK	J. W. MILLER CO. 5917 SO. MAIN LOS ANGELES, CALIF.	STANDARD PART NO.
DWG. BY W. E. K.		4201
APP. BY W. R. C.		THRU
DATE: 7-10-66		4209
	SCALE: N. T. S.	DWG. NO. 4201-4209

www.33audio.com

4580E thru 6310E

Encapsulated Radio Frequency Chokes



The following series of R.F. chokes range in value from 0.1 uh to 50 mh. These coils are encapsulated in epoxy resin and conform to MIL-C-15305. Min. lead length 1".

Epoxy encapsulated 0.1uh - 50mh

Miller Part Number	Measured on Model 260A Q-Meter			Self Resonant Frequency Minimum MHz	D. C. Resistance Maximum	*Milliamp Rating Maximum	Diameter and Length	Total Turns
	Inductance Nominal	Q Minimum	Test Frequency					
4580-E	.10 uh	68	25 MHz	400	.017	3000	.312 x 1.000	3
4582-E	.15 uh	73	25 MHz	328	.018	2900	.312 x 1.000	4
4584-E	.22 uh	77	25 MHz	272	.020	2800	.312 x 1.000	7
4586-E	.33 uh	80	25 MHz	230	.024	2600	.312 x 1.000	10
4588-E	.47 uh	90	25 MHz	194	.034	2500	.312 x 1.000	13
4590-E	.68 uh	83	25 MHz	166	.036	2400	.312 x 1.000	18
4592-E	.75 uh	81	25 MHz	163	.040	2200	.312 x 1.000	21
4594-E	.82 uh	88	25 MHz	160	.043	2100	.312 x 1.000	22
4602-E	1.0 uh	60	7.9 MHz	152	.050	2000	.312 x 1.000	28
4604-E	1.5 uh	58	7.9 MHz	119	.093	1800	.312 x 1.000	34
4606-E	2.4 uh	56	7.9 MHz	96	.190	1500	.312 x 1.000	44
4608-E	3.9 uh	60	7.9 MHz	74	.450	1000	.312 x 1.000	50
4609-E	5.5 uh	57	7.9 MHz	64	.670	850	.312 x 1.000	64
4610-E	6.2 uh	57	7.9 MHz	61	.830	700	.312 x 1.000	66
4611-E	8.2 uh	57	7.9 MHz	52	1.20	600	.312 x 1.000	77
4612-E	10 uh	36	2.5 MHz	49	1.50	500	.312 x 1.000	96
4622-E	10 uh	69	2.5 MHz	37	.110	1500	.375 x 1.125	32
4624-F	15 uh	62	2.5 MHz	26	.170	1000	.375 x 1.125	36
4626-E	24 uh	65	2.5 MHz	20	.340	800	.375 x 1.125	50
4628-E	39 uh	70	2.5 MHz	16	.650	600	.375 x 1.125	63
4629-E	55 uh	72	2.5 MHz	13	1.00	500	.375 x 1.125	83
4630-E	62 uh	83	2.5 MHz	12	1.20	475	.375 x 1.125	77
4631-E	82 uh	85	2.5 MHz	10	1.90	450	.375 x 1.125	92
4632-E	100 uh	107	.79 MHz	9.6	3.00	400	.375 x 1.125	96
4642-E	.10 mh	49	.79 MHz	8.8	5.40	160	.500 x 1.000	219
4644-E	.15 mh	53	.79 MHz	7.0	6.50	160	.500 x 1.000	258
4646-E	.24 mh	56	.79 MHz	5.7	8.50	160	.500 x 1.000	321
4648-E	.39 mh	57	.79 MHz	4.5	11.0	160	.500 x 1.000	396
4649-E	.55 mh	58	.79 MHz	3.8	13.0	160	.625 x 1.000	420
4650-E	.62 mh	59	.79 MHz	3.6	15.0	160	.625 x 1.000	477
4651-E	.75 mh	56	.79 MHz	3.2	16.0	160	.625 x 1.000	495
4652-E	1.0 mh	59	.25 MHz	2.9	19.0	160	.625 x 1.000	574
4662-E	1.0 mh	83	.25 MHz	2.1	8.6	160	.625 x 1.125	300
4664-E	1.5 mh	82	.25 MHz	1.7	11.0	160	.625 x 1.125	366
4666-E	2.4 mh	80	.25 MHz	1.3	15.0	160	.625 x 1.125	471
4668-E	3.9 mh	73	.25 MHz	1.1	20.0	160	.625 x 1.125	585
4669-E	5.5 mh	69	.25 MHz	.88	25.0	160	.625 x 1.125	600
4670-E	6.2 mh	89	.25 MHz	.80	37.0	100	.625 x 1.125	750
4671-E	8.2 mh	83	.25 MHz	.75	46.0	100	.625 x 1.125	900
4672-E	10 mh	68	79 kHz	.65	50.0	100	.625 x 1.125	948
6302-E	2.5 mh	106	250 kHz	1.00	9.0	160	.625 x 1.125	300
6304-E	5.0 mh	91	250 kHz	.80	14.0	160	.625 x 1.125	432
6306-E	10 mh	108	79 kHz	.57	31.0	100	.625 x 1.125	615
6308-E	25 mh	102	79 kHz	.37	82.0	65	.625 x 1.125	969
6310-E	50 mh	113	79 kHz	.26	127	65	.625 x 1.125	1392

*TOLERANCE 0.1 TO 1.0 UH ± 20%, 1.1 TO 15 UH ± 10%, OVER 15 UH ± 5%

*Tolerance +/- 20% 0.1 - 1.0uh
 +/- 10% 1.1 - 15uh
 +/- 5% over 15uh

USED ON: STOCK	J. W. MILLER CO. 5917 SO. MAIN LOS ANGELES, CALIF.	STANDARD PART NO.
DWG. BY W. E. K.		4580-E
APP. BY W. R. C.		THRU
DATE: 7-10-66		6310-E
SCALE: N. T. S.	DWG. NO. 4580-6310-E	

50A106EBI thru 50A823EBI

Epoxy Encapsulated Adjustable



Encapsulated Adjustable R.F. Coils

"UNISEAL," a recent development of the J. W. Miller Co., has successfully been applied to the production of encapsulated adjustable R.F. inductors. The primary difficulty encountered in the encapsulation of adjustable inductors is the prevention of moisture entering the coil form around the threaded stud. The moisture being subsequently absorbed by the coil form resulting in deterioration of coil efficiency. The open end is filled with silicone grease and bonded to the brass bushing which holds the adjustable core. The grease in this case is not intended to prevent moisture absorption since the coil is completely sealed by the use of the epoxy form. It does serve to provide a smoother turning core. The coil assembly is next inserted into another epoxy shell and the entire assembly filled with epoxy resin. This forms one solid mass of epoxy from the inner coil form to the outer shell. The unit is impervious to moisture and is extremely shock and vibration resistant.

FORM LENGTH: 1.000

Miller Part Number	Minimum Core Position			Maximum Core Position			R Ohms Maximum	Maximum Current Milliamperes	Diameter Inches	Turns
	Inductance Maximum	Q Min.	Test Frequency	Inductance Minimum	Q Min.	Test Frequency				
50A106EBI	.73 uh	100	25. MHz	1.02 uh	90	7.9 MHz	.07	636	.437	2
50A156EBI	1.15 uh	90	7.9 MHz	1.65 uh	86	7.9 MHz	.11	636	.437	12
50A226EBI	1.88 uh	83	7.9 MHz	2.40 uh	82	7.9 MHz	.12	636	.437	16
50A336EBI	2.32 uh	64	7.9 MHz	3.20 uh	73	7.9 MHz	.22	400	.437	19
50A476EBI	3.20 uh	62	7.9 MHz	4.95 uh	49	7.9 MHz	.24	400	.437	25
50A686EBI	4.80 uh	60	7.9 MHz	7.05 uh	64	7.9 MHz	.69	160	.437	27
50A826EBI	5.41 uh	63	7.9 MHz	7.83 uh	66	7.9 MHz	.75	160	.437	31
50A105EBI	6.25 uh	56	7.9 MHz	10.0 uh	58	7.9 MHz	1.2	100	.437	32
50A155EBI	9.25 uh	64	7.9 MHz	15.0 uh	58	2.5 MHz	1.5	100	.437	43
50A225EBI	16.2 uh	44	2.5 MHz	24.4 uh	72	2.5 MHz	3.2	65	.437	51
50A335EBI	22.3 uh	34	2.5 MHz	33.0 uh	51	2.5 MHz	2.4	100	.437	61
50A475EBI	31.2 uh	31	2.5 MHz	46.5 uh	46	2.5 MHz	2.7	100	.437	75
50A685EBI	46.7 uh	32	2.5 MHz	70.0 uh	42	2.5 MHz	3.5	100	.437	98
50A825EBI	54.0 uh	42	2.5 MHz	83.5 uh	58	2.5 MHz	6.0	65	.437	104
50A104EBI	76.8 uh	30	2.5 MHz	99.2 uh	51	2.5 MHz	6.7	65	.625	102
50A154EBI	108. uh	30	2.5 MHz	142. uh	45	.79 MHz	9.0	65	.625	100
50A224EBI	169. uh	36	.79 MHz	232. uh	52	.79 MHz	12.	65	.625	120
50A334EBI	258. uh	36	.79 MHz	346. uh	50	.79 MHz	15.	65	.625	148
50A474EBI	344. uh	38	.79 MHz	460. uh	50	.79 MHz	17.	65	.625	172
50A684EBI	505. uh	37	.79 MHz	655. uh	50	.79 MHz	21.	65	.625	206
50A824EBI	650. uh	37	.79 MHz	855. uh	44	.79 MHz	23.	65	.625	234
50A103EBI	860. uh	34	.25 MHz	1.10 mh	46	.79 MHz	26.	65	.625	270
50A153EBI	1.2 mh	32	.25 MHz	1.56 mh	46	.25 MHz	34.	65	.625	320
50A223EBI	2.0 mh	36	.25 MHz	2.40 mh	49	.25 MHz	44.	65	.625	400
50A333EBI	3.0 mh	40	.25 MHz	3.44 mh	52	.25 MHz	53.	65	.625	476
50A473EBI	4.2 mh	41	.25 MHz	4.81 mh	48	.25 MHz	66.	60	.625	560
50A683EBI	6.1 mh	41	.25 MHz	6.88 mh	45	.25 MHz	83.	60	.625	660
50A823EBI	6.9 mh	34	.25 MHz	8.75 mh	36	.25 MHz	83.	60	.625	990

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USED ON: STOCK	J. W. MILLER CO. 5917 SO. MAIN LOS ANGELES, CALIF.	STANDARD PART NO.
DWG. BY W. E. K.		50A106EBI
APP. BY W. R. C.		THRU
DATE: 7-10-66		50A823EBI
	SCALE: N. T. S.	DWG. NO. 50A106-823EBI