

# MILLER QUALITY PRODUCTS

# Miller

## Radio Frequency Chokes

### R.F. Chokes with Axial Leads

These chokes cover an inductance range from .1 microhenry to 10 millihenries in 5 decades with 8 coils per decade. Inductance values increase in steps of approximately 50%. Either single layer or 3-pi universal windings are used to insure low distributed capacity. Chokes are wound on low-loss molded phenolic or powdered iron core forms and are impregnated with a moisture- and fungus-resistant varnish. The type of powdered iron used allows the chokes to operate at all frequencies up into the ultra-high frequency region.

Dimensions: Phenolic form  $\frac{3}{8}$ " diameter x  $\frac{3}{4}$ " long. Iron core form  $\frac{5}{8}$ " diameter x  $\frac{7}{8}$ " long. Leads are  $1\frac{1}{2}$ " long. Inductance tolerance: plus or minus 5%.

#### Phenolic Form Single Layer Windings

| Cat. No. | uh.  | Ohms | ma  | List Price |
|----------|------|------|-----|------------|
| 4580     | 0.1  | .01  | 300 | \$.65      |
| 4582     | 0.15 | .012 | 300 | .65        |
| 4584     | 0.22 | .017 | 300 | .65        |
| 4586     | 0.33 | .019 | 300 | .65        |
| 4588     | 0.47 | .022 | 300 | .65        |
| 4590     | 0.68 | .03  | 300 | .65        |
| 4592     | 0.75 | .033 | 300 | .65        |
| 4594     | 0.82 | .035 | 300 | .65        |
| 4602     | 1.   | .05  | 300 | .65        |
| 4604     | 1.5  | .08  | 300 | .65        |
| 4606     | 2.4  | .16  | 300 | .65        |
| 4608     | 3.9  | .5   | 300 | .65        |
| 4609     | 5.5  | .69  | 300 | .70        |
| 4610     | 6.2  | .75  | 300 | .70        |
| 4611     | 8.2  | 1.12 | 300 | .70        |
| 4612     | 10   | 1.5  | 200 | .70        |

#### Iron Core Form Single Layer Windings

| Cat. No. | uh. | Ohms | ma  | List Price |
|----------|-----|------|-----|------------|
| 4622     | 10  | .06  | 300 | \$.75      |
| 4624     | 15  | .12  | 300 | .75        |
| 4626     | 24  | .28  | 300 | .80        |
| 4628     | 39  | .65  | 300 | .80        |
| 4629     | 55  | .92  | 300 | .85        |
| 4630     | 62  | 1.0  | 300 | .85        |
| 4631     | 82  | 1.6  | 300 | .85        |
| 4632     | 100 | 2.0  | 200 | .85        |

#### Phenolic Form 3-Section Windings

| Cat. No. | mh.  | Ohms | ma  | List Price |
|----------|------|------|-----|------------|
| 4642     | 0.1  | 4.1  | 125 | \$.85      |
| 4644     | 0.15 | 5    | 125 | .85        |
| 4646     | 0.24 | 6.6  | 125 | .85        |
| 4648     | 0.39 | 8.7  | 125 | .95        |
| 4649     | 0.55 | 10   | 125 | .95        |
| 4650     | 0.62 | 11   | 125 | .95        |
| 4651     | 0.75 | 13   | 125 | .95        |
| 4652     | 1.0  | 15   | 125 | .95        |

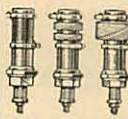
#### Iron Core Form 3-Section Windings

| Cat. No. | mh. | Ohms | ma  | List Price |
|----------|-----|------|-----|------------|
| 4662     | 1   | 7    | 125 | \$1.00     |
| 4664     | 1.5 | 9    | 125 | 1.05       |
| 4666     | 2.4 | 12   | 125 | 1.15       |
| 4668     | 3.9 | 17   | 125 | 1.25       |
| 4669     | 5.5 | 22   | 125 | 1.40       |
| 4670     | 6.2 | 33   | 100 | 1.40       |
| 4671     | 8.2 | 45   | 100 | 1.70       |
| 4672     | 10  | 47   | 50  | 1.95       |

### Ferrite Core R.F. Chokes

A new series of R.F. Chokes taking advantage of the high permeability of ferrite cores. These chokes combine high inductance and low D.C. resistance with a small physical size. Dimensions of core:  $\frac{1}{4}$ " diameter x  $\frac{7}{8}$ " long.  $1\frac{1}{2}$ " long axial leads.

| Cat. No. | mh. | Ohms | ma  | List Price |
|----------|-----|------|-----|------------|
| 6302     | 2.5 | 8.3  | 200 | \$1.25     |
| 6304     | 5   | 13.5 | 200 | 1.40       |
| 6306     | 10  | 28   | 125 | 1.65       |
| 6308     | 25  | 70   | 75  | 1.90       |
| 6310     | 50  | 110  | 75  | 2.20       |



### Adjustable Ceramic Forms and R.F. Coils

Permeability tuned coils wound on silicone impregnated ceramic forms. Hardware necessary for assembly is supplied.

#### Standard Adjustable Ceramic Form and R.F. Coils

Dimensions (form):  $\frac{3}{8}$ " diameter x  $1\frac{1}{8}$ " long.

| Cat. No. | Microhenries | List Price |
|----------|--------------|------------|
| 4400     | Form only    | \$1.80     |
| 4403     | 0.9- 1.6     | 2.45       |
| 4404     | 1.5- 3.2     | 2.50       |
| 4405     | 3.1- 6.8     | 2.55       |
| 4406     | 6.7- 15      | 2.65       |
| 4407     | 14.8- 31     | 2.75       |
| 4408     | 30 - 69      | 2.80       |
| 4409     | 68 - 130     | 2.90       |
| 4410     | 126 - 250    | 2.95       |
| 4411     | 245 - 475    | 3.00       |
| 4412     | 450 - 800    | 3.05       |
| 4413     | 750 - 1400   | 3.10       |
| 4414     | 1300 - 2100  | 3.10       |

#4400 comes complete with hardware and core\*  
#4400 Bulk packed per 100 List Price \$155.00

#### Miniature Adjustable R.F. Coils

Dimensions (form):  $\frac{1}{4}$ " diameter x  $\frac{7}{8}$ " long.

| Cat. No. | Microhenries | List Price |
|----------|--------------|------------|
| 4500     | Form only    | \$1.65     |
| 4501     | .4- .8       | 2.25       |
| 4502     | 1.0- 1.6     | 2.25       |
| 4503     | 1.6- 2.8     | 2.35       |
| 4504     | 2.8- 5       | 2.40       |
| 4505     | 5 - 9        | 2.50       |
| 4506     | 9 - 16       | 2.60       |
| 4507     | 16 - 24      | 2.70       |
| 4508     | 24 - 35      | 2.75       |
| 4509     | 35 - 60      | 2.80       |
| 4511     | 60 - 120     | 2.85       |
| 4512     | 110 - 200    | 2.90       |
| 4513     | 190 - 330    | 2.95       |
| 4514     | 320 - 500    | 3.00       |
| 4514-1   | 480 - 800    | 3.10       |

#4500 comes complete with hardware and core\*  
#4500 Bulk packed per 100 List Price \$125.00

#### Sub-Miniature Adjustable R.F. Coils

Dimensions (form):  $\frac{3}{16}$ " diameter x  $\frac{5}{8}$ " long.

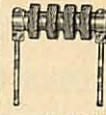
| Cat. No. | Microhenries | List Price |
|----------|--------------|------------|
| 4300     | Form only    | \$1.65     |
| 4301     | 0.17- 0.27   | 2.25       |
| 4302     | 0.27- 0.41   | 2.25       |
| 4303     | 0.40- 0.65   | 2.35       |
| 4304     | 0.64- 0.95   | 2.40       |
| 4305     | 0.94- 1.55   | 2.50       |
| 4306     | 1.5 - 2.57   | 2.60       |
| 4307     | 2.5 - 4.40   | 2.70       |
| 4308     | 4.3 - 7.15   | 2.75       |
| 4309     | 7.1 - 12.5   | 2.80       |
| 4310     | 12.4 - 20.3  | 2.85       |
| 4311     | 20.1 - 32.8  | 2.90       |
| 4312     | 32.5 - 51.5  | 2.95       |
| 4313     | 51 - 102.    | 3.00       |
| 4314     | 101 - 180.   | 3.00       |
| 4315     | 178 - 300.   | 3.00       |

#4300 comes complete with hardware and core\*  
#4300 Bulk packed per 100 List price \$125.00

Quantity orders can be wound to your specific requirements with extended inductances and Q values other than those shown. Your inquiries invited.

\*When ordering forms alone, the type of core should be specified by the addition of a suffix taken from the following.

| Suffix | Frequency Range of Core Material |
|--------|----------------------------------|
| Y      | 50-1000 kc.                      |
| R      | 1- 30 Mc.                        |
| W      | 30- 300 Mc.                      |



### Multiple Pi Chokes

These Multiple Pi duo-lateral chokes have a low distributed capacity of 1.2-1.3 mmf. The current carrying capacity is comparatively high for this type of choke. Inductance tol.  $\pm 5\%$ .

| Cat. No. | Mh. | Ohms | MA  | List Price |
|----------|-----|------|-----|------------|
| 4531-0   | .25 | 8    | 200 | \$1.15     |
| 4531     | .5  | 12   | 200 | 1.15       |
| 4531-1   | 1   | 17   | 200 | 1.15       |
| 4532     | 1.5 | 21   | 200 | 1.20       |
| 4537     | 2.5 | 28   | 200 | 1.25       |
| 4538     | 5   | 42   | 125 | 1.45       |
| 4539     | 7.5 | 82   | 125 | 1.65       |
| 4540     | 10  | 95   | 125 | 1.80       |
| 4541     | 25  | 160  | 125 | 2.15       |

#4537 Bulk packed per 100 - List Price \$95.00  
R.F. Chokes wound to closer tolerances if required in lots of 100 pieces or more at slightly higher prices.

### Unshielded Chokes

These single section R.F. Chokes are ideally suited for general purpose applications in receiver and filter circuit. Solder lug terminals and single hole mounting. Inductance tol.  $\pm 5\%$ .

#### Air Core Type

Dimensions:  $1\frac{1}{8}$ " diameter x  $\frac{5}{8}$ ".

| Cat. No. | MH   | Ohms | MA  | List Price |
|----------|------|------|-----|------------|
| 610      | .25  | 8    | 125 | \$.90      |
| 620      | .75  | 17   | 125 | .90        |
| 630      | 1.50 | 21   | 125 | 1.00       |
| 640      | 2.50 | 28   | 125 | 1.15       |
| 650      | 5.0  | 41   | 125 | 1.15       |
| 660      | 7.5  | 53   | 125 | 1.20       |
| 670      | 10   | 67   | 125 | 1.25       |
| 670-T    | 10   | 67   | 125 | 1.35       |
| 680      | 12.5 | 74   | 125 | 1.30       |
| 690      | 15.0 | 83   | 125 | 1.35       |
| 691      | 20   | 100  | 125 | 1.45       |
| 691-T    | 20   | 100  | 125 | 1.50       |
| 692      | 30.0 | 120  | 100 | 1.50       |
| 693      | 60   | 200  | 100 | 1.70       |
| 693-T    | 60   | 200  | 100 | 2.00       |
| 694      | 80.0 | 230  | 100 | 1.85       |

#### Iron Core Type

These chokes are similar in construction to the No. 600 series except that they are wound on powdered iron cores. Inductance tol.  $\pm 5\%$ .

| Cat. No. | MH    | Ohms  | MA  | List Price |
|----------|-------|-------|-----|------------|
| 951      | .5    | 6.8   | 125 | \$1.20     |
| 952      | 1.0   | 10.9  | 125 | 1.30       |
| 953      | 2.5   | 19.5  | 125 | 1.40       |
| 954      | 5.0   | 23.0  | 125 | 1.60       |
| 955      | 7.5   | 37.0  | 125 | 1.70       |
| 956      | 10.0  | 45.0  | 125 | 1.80       |
| 957      | 25.0  | 78.0  | 100 | 2.00       |
| 958      | 50.0  | 130.0 | 100 | 2.25       |
| 959      | 75.0  | 200.0 | 100 | 2.50       |
| 960      | 100.0 | 210.0 | 100 | 2.80       |
| 961      | 150.0 | 268.0 | 100 | 3.00       |

### Shielded Chokes



Single section wound R.F. Chokes assembled in round aluminum shield with two spade bolts for mounting. Solder lug terminals.

#### Iron Core Type

Dimensions:  $1\frac{1}{4}$ " dia. x  $1\frac{1}{2}$ " high.

| Cat. No. | MH   | Ohms  | MA  | List Price |
|----------|------|-------|-----|------------|
| 851      | .5   | 8.6   | 125 | \$1.75     |
| 852      | 1.0  | 11.5  | 125 | 1.85       |
| 853      | 2.5  | 22.0  | 125 | 1.90       |
| 854      | 5.0  | 31.0  | 125 | 2.00       |
| 855      | 7.5  | 42.0  | 125 | 2.10       |
| 856      | 10.0 | 47.0  | 125 | 2.25       |
| 857      | 25.0 | 100.0 | 125 | 2.50       |

Dimensions:  $1\frac{5}{8}$ " dia. x  $1\frac{1}{2}$ " high.

| Cat. No. | MH    | Ohms  | MA  | List Price |
|----------|-------|-------|-----|------------|
| 858      | 50.0  | 160.0 | 100 | 2.60       |
| 859      | 75.0  | 222.0 | 100 | 2.85       |
| 860      | 100.0 | 348.0 | 100 | 3.10       |
| 861      | 150.0 | 520.0 | 100 | 3.50       |

For a Complete Listing of MILLER PRODUCTS ask for a copy of our Latest General Catalog.

# Miller

## Industrial R.F. Chokes and Filters



### Encapsulated R.F. Chokes

The following series of R.F. chokes range in value from 0.1 uh to 50 mh. Basically identical to our standard series of axial lead R.F. chokes bearing the equivalent number, these coils are encapsulated in epoxy resin and conform to MIL-C-15305A.

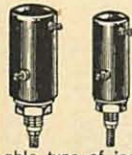
| Part No. | Inductance<br>±5% | Resistance<br>±10% | Current<br>MA | List<br>Price |
|----------|-------------------|--------------------|---------------|---------------|
| 4580-E   | 0.1 uh.           | .01                | 300           | \$1.90        |
| 4582-E   | 0.15 uh.          | .012               | 300           | 1.90          |
| 4584-E   | 0.22 uh.          | .017               | 300           | 1.90          |
| 4586-E   | 0.33 uh.          | .019               | 300           | 1.90          |
| 4588-E   | 0.47 uh.          | .022               | 300           | 1.90          |
| 4590-E   | 0.68 uh.          | .03                | 300           | 1.90          |
| 4592-E   | 0.75 uh.          | .033               | 300           | 1.90          |
| 4594-E   | 0.82 uh.          | .035               | 300           | 1.90          |
| 4602-E   | 1.0 uh.           | .05                | 300           | 1.90          |
| 4604-E   | 1.5 uh.           | .08                | 300           | 1.90          |
| 4606-E   | 2.4 uh.           | .16                | 300           | 1.90          |
| 4608-E   | 3.9 uh.           | .5                 | 300           | 1.90          |
| 4609-E   | 5.5 uh.           | .69                | 300           | 1.95          |
| 4610-E   | 6.2 uh.           | .75                | 300           | 1.95          |
| 4611-E   | 8.2 uh.           | 1.12               | 300           | 1.95          |
| 4612-E   | 10.0 uh.          | 1.5                | 200           | 1.95          |
| 4622-E   | 10.0 uh.          | .06                | 300           | 2.00          |
| 4624-E   | 15.0 uh.          | .12                | 300           | 2.00          |
| 4626-E   | 24.0 uh.          | .28                | 300           | 2.05          |
| 4628-E   | 39.0 uh.          | .65                | 300           | 2.05          |
| 4629-E   | 55.0 uh.          | .92                | 300           | 2.05          |
| 4630-E   | 62.0 uh.          | 1.0                | 300           | 2.05          |
| 4631-E   | 82.0 uh.          | 1.6                | 300           | 2.05          |
| 4632-E   | 100.0 uh.         | 2.0                | 200           | 2.05          |
| 4642-E   | 0.10 mh.          | 4.1                | 125           | 2.25          |
| 4644-E   | 0.15 mh.          | 5.0                | 125           | 2.25          |
| 4646-E   | 0.24 mh.          | 6.6                | 125           | 2.25          |
| 4648-E   | 0.39 mh.          | 8.7                | 125           | 2.35          |
| 4649-E   | 0.55 mh.          | 10.0               | 125           | 2.35          |
| 4650-E   | 0.62 mh.          | 11.0               | 125           | 2.35          |
| 4651-E   | 0.75 mh.          | 13.0               | 125           | 2.35          |
| 4652-E   | 1.0 mh.           | 15.0               | 125           | 2.35          |
| 4662-E   | 1.0 mh.           | 7.0                | 125           | 2.40          |
| 4664-E   | 1.5 mh.           | 9.0                | 125           | 2.45          |
| 4666-E   | 2.4 mh.           | 12.0               | 125           | 2.60          |
| 4668-E   | 3.9 mh.           | 17.0               | 125           | 2.70          |
| 4669-E   | 5.5 mh.           | 22.0               | 125           | 2.85          |
| 4670-E   | 6.2 mh.           | 33.0               | 100           | 2.85          |
| 4671-E   | 8.2 mh.           | 45.0               | 100           | 2.95          |
| 4672-E   | 10.0 mh.          | 47.0               | 50            | 3.45          |
| 6302-E   | 2.5 mh.           | 8.3                | 200           | 2.75          |
| 6304-E   | 5.0 mh.           | 13.5               | 200           | 2.90          |
| 6306-E   | 10.0 mh.          | 28.0               | 125           | 3.10          |
| 6308-E   | 25.0 mh.          | 70.0               | 75            | 3.40          |
| 6310-E   | 50.0 mh.          | 110.0              | 75            | 3.75          |

### Single Pi R.F. Coils

These fixed inductors are wound on a mineral filled phenolic form which has axial leads. The coils are impregnated with an R.F. varnish to assure against moisture absorption.

| Part # | L ±10% | fo Mc | Q  | List Price |
|--------|--------|-------|----|------------|
| 6152   | 20     | 29.3  | 36 | \$.85      |
| 6176   | 36     | 19.35 | 37 | .85        |
| 6110   | 60     | 13.6  | 31 | .85        |
| 6172   | 73     | 12.0  | 39 | .85        |
| 6177   | 93     | 12.2  | 42 | .85        |
| 6112   | 100    | 10.35 | 32 | .85        |
| 6153   | 120    | 10.51 | 40 | .85        |
| 6120   | 155    | 8.65  | 35 | .85        |
| 6180   | 180    | 8.51  | 43 | .85        |
| 6154   | 200    | 7.5   | 40 | .85        |
| 6181   | 250    | 7.65  | 45 | .85        |
| 6130   | 275    | 6.35  | 42 | .85        |
| 6155   | 300    | 6.45  | 45 | .85        |
| 6132   | 330    | 6.1   | 39 | .85        |
| 6134   | 375    | 5.7   | 43 | .85        |
| 6136   | 420    | 5.4   | 44 | .85        |
| 6138   | 470    | 5.2   | 43 | .85        |
| 6174   | 500    | 5.05  | 46 | .85        |
| 6144   | 550    | 4.72  | 44 | .85        |
| 6146   | 600    | 4.51  | 44 | .85        |
| 6148   | 700    | 4.28  | 45 | .85        |
| 6156   | 800    | 3.83  | 46 | .85        |
| 6157   | 950    | 3.47  | 45 | .85        |

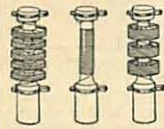
### Encapsulated Adjustable R.F. Coils



This series of encapsulated coils offer the maximum possible performance from an adjustable type of inductor. The coil is wound on an epoxy form which is placed inside an epoxy cup and this area filled with epoxy resin. In this manner a complete seal against moisture is achieved and good mechanical stability is assured.

| Part No.  | L Max.<br>±5% | L Min.<br>±10% | List Price |
|-----------|---------------|----------------|------------|
| 50A106EBI | 1.25 uh       | 0.62 uh        | \$5.25     |
| 50A156EBI | 1.87 uh       | 0.98 uh        | 5.25       |
| 50A226EBI | 2.75 uh       | 1.26 uh        | 5.25       |
| 50A336EBI | 4.10 uh       | 1.82 uh        | 5.30       |
| 50A476EBI | 5.87 uh       | 2.56 uh        | 5.30       |
| 50A686EBI | 8.50 uh       | 3.80 uh        | 5.30       |
| 50A826EBI | 10.2 uh       | 4.40 uh        | 5.30       |
| 50A105EBI | 12.5 uh       | 5.40 uh        | 5.40       |
| 50A155EBI | 18.8 uh       | 7.80 uh        | 5.40       |
| 50A225EBI | 27.5 uh       | 11.7 uh        | 5.50       |
| 50A335EBI | 41.3 uh       | 18.8 uh        | 5.50       |
| 50A475EBI | 58.7 uh       | 26.5 uh        | 5.55       |
| 50A685EBI | 85.0 uh       | 36.0 uh        | 5.55       |
| 50A825EBI | 102 uh        | 44.0 uh        | 5.60       |
| 50A104EBI | 125 uh        | 63.0 uh        | 5.60       |
| 50A154EBI | 187 uh        | 92.0 uh        | 5.65       |
| 50A224EBI | 275 uh        | 130 uh         | 5.65       |
| 50A334EBI | 410 uh        | 200 uh         | 5.70       |
| 50A474EBI | 580 uh        | 280 uh         | 5.70       |
| 50A684EBI | 850 uh        | 400 uh         | 5.75       |
| 50A824EBI | 1.00 mh       | 540 uh         | 5.75       |
| 50A103EBI | 1.25 mh       | 770 uh         | 5.80       |
| 50A153EBI | 1.87 mh       | 950 uh         | 5.80       |
| 50A223EBI | 2.75 mh       | 1.58 mh        | 5.85       |
| 50A333EBI | 4.13 mh       | 2.40 mh        | 5.85       |
| 50A473EBI | 5.80 mh       | 3.35 mh        | 5.95       |
| 50A683EBI | 8.50 mh       | 5.20 mh        | 5.95       |
| 50A823EBI | 10.00 mh      | 6.20 mh        | 5.95       |

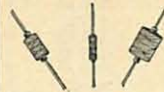
### Ceramic Form R.F. Chokes



A series of high quality fixed coils wound on a silicone impregnated steatite form. The coils are the standoff type and are mounted by a single 6-32 screw. They find primary application in low power transmitters and associated equipment where relatively high current capacity and low distributed capacitance are important.

| Part Number | L        | Rated Current | List Price |
|-------------|----------|---------------|------------|
| 4552        | 0.25 mh. | 150 ma.       | \$1.15     |
| 4553        | 0.50 mh. | 150 ma.       | 1.15       |
| 4554        | 1.0 mh.  | 150 ma.       | 1.25       |
| 4555        | 2.5 mh.  | 150 ma.       | 1.40       |
| 4556        | 5.0 mh.  | 150 ma.       | 1.45       |
| 4557        | 0.25 mh. | 300 ma.       | 1.25       |
| 4558        | 0.50 mh. | 300 ma.       | 1.25       |
| 4559        | 1.0 mh.  | 300 ma.       | 1.50       |
| 4560        | 2.5 mh.  | 300 ma.       | 1.65       |
| 4561        | 5.0 mh.  | 300 ma.       | 1.75       |

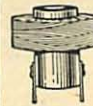
### Sub-Miniature R.F. Chokes



An extremely versatile series of iron core R.F. chokes designed to meet the industries' demand for high reliability, ultra-miniature components. The coils are ideally suited to network and filter design, delay lines, and computer applications. Rated at 50 milliamperes.

| Part No  | L ±5%   | Q @ F       | List Price |
|----------|---------|-------------|------------|
| 70F104AI | 100 uh  | 50 @ 790 Kc | \$1.00     |
| 70F154AI | 150 uh  | 55 @ 790 Kc | 1.00       |
| 70F224AI | 220 uh  | 57 @ 790 Kc | 1.00       |
| 70F334AI | 330 uh  | 59 @ 790 Kc | 1.00       |
| 70F474AI | 470 uh  | 59 @ 790 Kc | 1.15       |
| 70F824AI | 820 uh  | 53 @ 790 Kc | 1.15       |
| 70F103AI | 1.00 mh | 50 @ 790 Kc | 1.15       |
| 70F153AI | 1.50 mh | 50 @ 250 Kc | 1.15       |
| 70F223AI | 2.20 mh | 50 @ 250 Kc | 1.25       |
| 70F684AI | 680 uh  | 55 @ 790 Kc | 1.15       |
| 70F333AI | 3.30 mh | 70 @ 250 Kc | 1.25       |
| 70F473AI | 4.70 mh | 68 @ 250 Kc | 1.25       |
| 70F683AI | 6.80 mh | 64 @ 250 Kc | 1.25       |
| 70F823AI | 8.20 mh | 60 @ 250 Kc | 1.50       |
| 70F102AI | 10.0 mh | 60 @ 250 Kc | 1.50       |

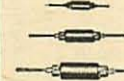
### Printed Circuit Air Core R.F. Chokes



The following R.F. Chokes have been designed to offer a wide range of inductance values for use in printed circuit applications. Our standard stock of these coils is impregnated with a high grade coil varnish to prevent moisture absorption. On special orders we can supply these items treated with fungus resistant material, or encapsulated in epoxy resin to meet MIL-C-15305-A.

| Part No. | Inductance<br>±5% @<br>1000 CPS | DC<br>Resistance<br>±10% | Current | List Price |
|----------|---------------------------------|--------------------------|---------|------------|
| 970      | 1.0 mh.                         | 17.2 ohms                | 125 ma. | \$.85      |
| 971      | 1.2 mh.                         | 19.8 ohms                | 125 ma. | .85        |
| 972      | 1.5 mh.                         | 21.8 ohms                | 125 ma. | .85        |
| 973      | 1.8 mh.                         | 24.7 ohms                | 125 ma. | .90        |
| 974      | 2.2 mh.                         | 27.4 ohms                | 125 ma. | .90        |
| 975      | 2.7 mh.                         | 31.2 ohms                | 125 ma. | .90        |
| 976      | 3.3 mh.                         | 34.8 ohms                | 125 ma. | .95        |
| 977      | 3.9 mh.                         | 38.9 ohms                | 125 ma. | .95        |
| 978      | 4.7 mh.                         | 43.2 ohms                | 125 ma. | .95        |
| 979      | 5.6 mh.                         | 48.0 ohms                | 125 ma. | .95        |
| 980      | 6.8 mh.                         | 53.6 ohms                | 125 ma. | 1.00       |
| 981      | 8.2 mh.                         | 60.8 ohms                | 100 ma. | 1.00       |
| 982      | 10.0 mh.                        | 67.0 ohms                | 100 ma. | 1.10       |
| 983      | 12.0 mh.                        | 78.0 ohms                | 100 ma. | 1.15       |
| 984      | 15.0 mh.                        | 87.7 ohms                | 100 ma. | 1.20       |
| 985      | 18.0 mh.                        | 97.9 ohms                | 100 ma. | 1.25       |
| 986      | 22.0 mh.                        | 108.0 ohms               | 75 ma.  | 1.40       |
| 987      | 27.0 mh.                        | 121.0 ohms               | 75 ma.  | 1.45       |
| 988      | 33.0 mh.                        | 209 ohms                 | 75 ma.  | 1.55       |
| 989      | 39.0 mh.                        | 231 ohms                 | 75 ma.  | 1.60       |
| 990      | 47.0 mh.                        | 263 ohms                 | 50 ma.  | 1.65       |
| 991      | 56.0 mh.                        | 292 ohms                 | 50 ma.  | 1.70       |
| 992      | 68.0 mh.                        | 326 ohms                 | 50 ma.  | 1.80       |
| 993      | 82.0 mh.                        | 368 ohms                 | 50 ma.  | 1.90       |
| 994      | 100.0 mh.                       | 394 ohms                 | 50 ma.  | 2.00       |

### Frequency Selective R.F. Chokes



Designed for maximum efficiency and highest impedance at specific operating frequencies this group of R.F. chokes eliminates the designers task of attempting to choose the best coil for a particular application from miscellaneous and often insufficient design data. Designed to cover the major Amateur, Industrial, and Citizens bands the coils will also operate efficiently at frequencies approximating the recommended frequencies.

| Part No. | L      | Freq. Mc | List Price |
|----------|--------|----------|------------|
| RFC-3.5  | 160 uh | 1.8-5    | \$1.50     |
| RFC-7    | 84 uh  | 3-13     | 1.25       |
| RFC-14   | 55 uh  | 7-20     | 1.15       |
| RFC-21   | 39 uh  | 15-30    | 1.00       |
| RFC-28   | 24 uh  | 25-40    | 1.00       |
| RFC-50   | 8.2 uh | 30-90    | 1.00       |
| RFC-144  | 2-4 uh | 15-180   | .85        |
| RFC-220  | .82 uh | 160-340  | .85        |
| RFC-420  | .22 uh | 325-500  | .85        |

### Heavy Duty Hash Chokes



Through the use of a molded powdered iron form we are able to offer a series of relatively high inductance, high current hash filter chokes in a minimum of size. The chokes are designed to prevent ignition and generator interference noise pick-up from battery wiring systems and from vibrator and motor-generator plate supply systems. The standard stock item is supplied impregnated with a moisture resistant varnish. On special order we will supply the chokes fungus-proofed or encapsulated in Epoxy Resin to meet MIL-C-15305-A. Dimensions: 5/16" diameter x 1 1/4" long.

| Cat. No. | Uh.  | Ohms | Amperes | List Price |
|----------|------|------|---------|------------|
| 5218     | 3.35 | .008 | 13      | \$1.80     |
| 5219     | 4.9  | .013 | 8       | 1.80       |
| 5220     | 8.8  | .017 | 5       | 1.80       |

For a Complete Listing of MILLER PRODUCTS ask for a copy of our Latest General Catalog.

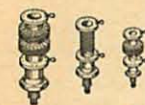


# Miller

Industrial Adjustable R.F. Coils



### Ceramic Adjustable R.F. Coils



The forms used in this series feature terminal rings machined from the ceramic form material. Coils wound on these forms exhibit high Q and good stability. The adjusting core is held rigidly at any setting through the use of a newly designed tension device on the bushing.

idly at any setting through the use of a newly designed tension device on the bushing.

### Sub Miniature Adjustable R.F. Coils

Dimensions (form) 7/32" dia. x 19/32" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 40A000CBI | Coil Form w/hdw. and Core |              | \$1.75     |
| 40A107CBI | .125 uh                   | .091 uh      | 2.55       |
| 40A157CBI | .188 uh                   | .124 uh      | 2.55       |
| 40A277CBI | .275 uh                   | .184 uh      | 2.55       |
| 40A337CBI | .413 uh                   | .265 uh      | 2.55       |
| 40A477CBI | .587 uh                   | .327 uh      | 2.60       |
| 40A687CBI | .850 uh                   | .482 uh      | 2.60       |
| 40A827CBI | 1.02 uh                   | .630 uh      | 2.75       |
| 40A106CBI | 1.25 uh                   | .730 uh      | 2.75       |
| 40A156CBI | 1.88 uh                   | 1.06 uh      | 2.75       |
| 40A226CBI | 2.75 uh                   | 1.50 uh      | 2.80       |
| 40A336CBI | 4.13 uh                   | 2.15 uh      | 2.80       |
| 40A476CBI | 5.87 uh                   | 3.00 uh      | 2.90       |
| 40A686CBI | 8.50 uh                   | 4.40 uh      | 2.90       |
| 40A826CBI | 10.2 uh                   | 5.25 uh      | 2.90       |
| 40A105CBI | 12.5 uh                   | 8.06 uh      | 3.00       |
| 40A155CBI | 18.8 uh                   | 11.9 uh      | 3.00       |
| 40A225CBI | 27.5 uh                   | 17.1 uh      | 3.10       |
| 40A335CBI | 41.3 uh                   | 26.6 uh      | 3.10       |
| 40A475CBI | 58.7 uh                   | 39.0 uh      | 3.25       |
| 40A685CBI | 85.0 uh                   | 58.0 uh      | 3.25       |
| 40A825CBI | 102 uh                    | 69.0 uh      | 3.50       |
| 40A104CBI | 125 uh                    | 84.0 uh      | 3.50       |
| 40A000CBI | Bulk pack per 100         |              | 150.00     |

### Miniature Adjustable R.F. Coils

Dimensions (form) 1/4" dia. x 13/16" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 41A000CBI | Coil Form w/hdw. and Core |              | \$1.85     |
| 41A106CBI | 1.25 uh                   | .69 uh       | 2.75       |
| 41A156CBI | 1.87 uh                   | 1.20 uh      | 2.75       |
| 41A226CBI | 2.75 uh                   | 1.42 uh      | 2.75       |
| 41A336CBI | 4.10 uh                   | 2.00 uh      | 2.80       |
| 41A476CBI | 5.80 uh                   | 2.80 uh      | 2.80       |
| 41A686CBI | 8.50 uh                   | 4.00 uh      | 2.80       |
| 41A826CBI | 10.0 uh                   | 4.50 uh      | 2.85       |
| 41A105CBI | 12.5 uh                   | 6.50 uh      | 2.85       |
| 41A155CBI | 18.7 uh                   | 10.8 uh      | 2.85       |
| 41A225CBI | 27.5 uh                   | 15.2 uh      | 2.85       |
| 41A335CBI | 41.0 uh                   | 26.0 uh      | 2.90       |
| 41A475CBI | 58.0 uh                   | 32.5 uh      | 2.90       |
| 41A685CBI | 85.0 uh                   | 48.5 uh      | 3.00       |
| 41A825CBI | 100 uh                    | 61.0 uh      | 3.00       |
| 41A104CBI | 125 uh                    | 65.0 uh      | 3.10       |
| 41A154CBI | 187 uh                    | 110 uh       | 3.10       |
| 41A224CBI | 275 uh                    | 160 uh       | 3.25       |
| 41A334CBI | 410 uh                    | 253 uh       | 3.25       |
| 41A474CBI | 580 uh                    | 390 uh       | 3.40       |
| 41A684CBI | 850 uh                    | 560 uh       | 3.50       |
| 41A824CBI | 1.00 mh                   | 670 uh       | 3.60       |
| 41A103CBI | 1.25 mh                   | 700 uh       | 3.75       |
| 41A000CBI | Bulk pack per 100         |              | 165.00     |

### Standard Adjustable R.F. Coils

Dimensions (form) 3/8" dia. x 1" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 42A000CBI | Coil Form w/hdw. and Core |              | \$1.90     |
| 42A106CBI | 1.25 uh                   | .68 uh       | 2.75       |
| 42A156CBI | 1.87 uh                   | 1.00 uh      | 2.75       |
| 42A226CBI | 2.75 uh                   | 1.35 uh      | 2.75       |
| 42A336CBI | 4.10 uh                   | 2.12 uh      | 2.80       |
| 42A476CBI | 5.80 uh                   | 2.40 uh      | 2.80       |
| 42A686CBI | 8.50 uh                   | 3.60 uh      | 2.85       |
| 42A826CBI | 10.0 uh                   | 4.45 uh      | 2.85       |
| 42A105CBI | 12.5 uh                   | 6.05 uh      | 3.00       |
| 42A155CBI | 18.7 uh                   | 9.40 uh      | 3.00       |
| 42A225CBI | 27.5 uh                   | 12.9 uh      | 3.05       |
| 42A335CBI | 41.0 uh                   | 18.8 uh      | 3.05       |
| 42A475CBI | 58.0 uh                   | 27.5 uh      | 3.30       |
| 42A685CBI | 85.0 uh                   | 37.5 uh      | 3.30       |
| 42A825CBI | 100 uh                    | 45.0 uh      | 3.40       |
| 42A104CBI | 125 uh                    | 54.0 uh      | 3.55       |
| 42A154CBI | 187 uh                    | 92.0 uh      | 3.55       |
| 42A224CBI | 275 uh                    | 123 uh       | 3.55       |
| 42A334CBI | 410 uh                    | 200 uh       | 3.60       |

|           |                   |         |        |
|-----------|-------------------|---------|--------|
| 42A474CBI | 580 uh            | 300 uh  | 3.60   |
| 42A684CBI | 850 uh            | 430 uh  | 3.60   |
| 42A824CBI | 1.00 mh           | 510 uh  | 3.70   |
| 42A103CBI | 1.25 mh           | 780 uh  | 3.70   |
| 42A153CBI | 1.87 mh           | 1.10 mh | 3.75   |
| 42A223CBI | 2.70 mh           | 1.66 mh | 3.75   |
| 42A333CBI | 4.10 mh           | 2.40 mh | 3.75   |
| 42A473CBI | 5.80 mh           | 3.46 mh | 3.80   |
| 42A683CBI | 8.50 mh           | 5.25 mh | 3.80   |
| 42A823CBI | 10.0 mh           | 6.00 mh | 3.95   |
| 42A102CBI | 12.5 mh           | 9.20 mh | 3.95   |
| 42A000CBI | Bulk pack per 100 |         | 170.00 |

### Jumbo Adjustable R.F. Coils

Dimensions (form) 1/2" dia. x 1-7/16" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 43A000CBI | Coil Form w/hdw. and Core |              | \$2.00     |
| 43A105CBI | 12.5 uh                   | 5.70 uh      | 2.95       |
| 43A155CBI | 18.7 uh                   | 9.00 uh      | 2.95       |
| 43A225CBI | 27.5 uh                   | 12.0 uh      | 2.95       |
| 43A335CBI | 41.0 uh                   | 17.0 uh      | 3.00       |
| 43A475CBI | 58.0 uh                   | 25.0 uh      | 3.00       |
| 43A685CBI | 85.0 uh                   | 38.0 uh      | 3.40       |
| 43A825CBI | 100 uh                    | 42.0 uh      | 3.40       |
| 43A104CBI | 125 uh                    | 65.0 uh      | 3.40       |
| 43A154CBI | 187 uh                    | 95.0 uh      | 3.60       |
| 43A224CBI | 275 uh                    | 138 uh       | 3.60       |
| 43A334CBI | 410 uh                    | 205 uh       | 3.60       |
| 43A474CBI | 580 uh                    | 240 uh       | 3.65       |
| 43A684CBI | 850 uh                    | 370 uh       | 3.65       |
| 43A824CBI | 1.00 mh                   | 450 uh       | 3.65       |
| 43A103CBI | 1.25 mh                   | 600 uh       | 3.65       |
| 43A153CBI | 1.87 mh                   | 900 uh       | 3.75       |
| 43A223CBI | 2.75 mh                   | 1.30 mh      | 3.75       |
| 43A333CBI | 4.10 mh                   | 1.95 mh      | 3.80       |
| 43A473CBI | 5.80 mh                   | 2.90 mh      | 3.80       |
| 43A683CBI | 8.50 mh                   | 4.30 mh      | 3.85       |
| 43A823CBI | 10.0 mh                   | 5.10 mh      | 3.85       |
| 43A102CBI | 12.5 mh                   | 6.50 mh      | 3.90       |
| 43A152CBI | 18.7 mh                   | 9.80 mh      | 3.90       |
| 43A222CBI | 27.5 mh                   | 13.0 mh      | 3.95       |
| 43A332CBI | 41.0 mh                   | 20.0 mh      | 3.95       |
| 43A472CBI | 58.0 mh                   | 29.0 mh      | 4.00       |
| 43A682CBI | 85.0 mh                   | 42.0 mh      | 4.10       |
| 43A822CBI | 100 mh                    | 50.0 mh      | 4.20       |
| 43A101CBI | 125 mh                    | 66.0 mh      | 4.50       |
| 43A000CBI | Bulk pack per 100         |              | 180.00     |

### Resinite Adjustable R.F. Coils

Resinite is a phenolic impregnated tubing which can be certified to MIL-P-798 type PBG. This material combines good mechanical and electrical characteristics along with the noncorrosive properties of cellulose acetate.

### Miniature Adjustable R.F. Coils

Dimensions (form) 1/4" dia. x 13/16" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 20A000RBI | Coil Form w/hdw. and Core |              | \$ .95     |
| 20A107RBI | .125 uh                   | .079 uh      | 1.30       |
| 20A157RBI | .187 uh                   | .119 uh      | 1.30       |
| 20A227RBI | .275 uh                   | .170 uh      | 1.30       |
| 20A337RBI | .410 uh                   | .240 uh      | 1.35       |
| 20A477RBI | .580 uh                   | .310 uh      | 1.35       |
| 20A687RBI | .850 uh                   | .430 uh      | 1.35       |
| 20A827RBI | 1.00 uh                   | .580 uh      | 1.35       |
| 20A106RBI | 1.25 uh                   | .679 uh      | 1.35       |
| 20A156RBI | 1.87 uh                   | .900 uh      | 1.35       |
| 20A226RBI | 2.75 uh                   | 1.60 uh      | 1.35       |
| 20A336RBI | 4.10 uh                   | 2.00 uh      | 1.35       |
| 20A476RBI | 5.80 uh                   | 2.80 uh      | 1.40       |
| 20A686RBI | 8.50 uh                   | 3.80 uh      | 1.40       |
| 20A826RBI | 10.0 uh                   | 4.70 uh      | 1.40       |
| 20A105RBI | 12.5 uh                   | 6.40 uh      | 1.40       |
| 20A155RBI | 18.7 uh                   | 9.20 uh      | 1.40       |
| 20A225RBI | 27.5 uh                   | 12.0 uh      | 1.40       |
| 20A335RBI | 41.0 uh                   | 19.0 uh      | 1.40       |
| 20A475RBI | 58.0 uh                   | 27.0 uh      | 1.40       |
| 20A685RBI | 85.0 uh                   | 37.0 uh      | 1.40       |
| 20A825RBI | 100 uh                    | 53.0 uh      | 1.40       |
| 20A104RBI | 125 uh                    | 65.0 uh      | 1.40       |
| 20A154RBI | 187 uh                    | 92.0 uh      | 1.40       |
| 20A224RBI | 275 uh                    | 140 uh       | 1.45       |
| 20A334RBI | 410 uh                    | 215 uh       | 1.45       |
| 20A474RBI | 580 uh                    | 310 uh       | 1.45       |
| 20A684RBI | 850 uh                    | 450 uh       | 1.45       |
| 20A824RBI | 1.00 mh                   | 620 uh       | 1.45       |
| 20A103RBI | 1.25 mh                   | 830 uh       | 1.45       |

### Standard Adjustable R.F. Coils

Dimensions (form) 3/8" dia. x 1 1/8" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 21A000RBI | Coil Form w/hdw. and Core |              | \$1.00     |
| 21A106RBI | 1.25 uh                   | 0.68 uh      | 1.35       |
| 21A156RBI | 1.87 uh                   | 1.00 uh      | 1.35       |
| 21A226RBI | 2.75 uh                   | 1.35 uh      | 1.35       |
| 21A336RBI | 4.10 uh                   | 2.12 uh      | 1.35       |
| 21A476RBI | 5.80 uh                   | 2.40 uh      | 1.35       |
| 21A686RBI | 8.50 uh                   | 3.60 uh      | 1.40       |
| 21A826RBI | 10.0 uh                   | 4.45 uh      | 1.40       |
| 21A105RBI | 12.5 uh                   | 6.05 uh      | 1.40       |
| 21A155RBI | 18.7 uh                   | 9.40 uh      | 1.40       |
| 21A225RBI | 27.5 uh                   | 12.9 uh      | 1.40       |
| 21A335RBI | 41.0 uh                   | 18.0 uh      | 1.40       |
| 21A475RBI | 58.0 uh                   | 27.5 uh      | 1.45       |
| 21A685RBI | 85.0 uh                   | 37.5 uh      | 1.45       |
| 21A825RBI | 100 uh                    | 45.0 uh      | 1.45       |
| 21A104RBI | 125 uh                    | 54.0 uh      | 1.45       |
| 21A154RBI | 187 uh                    | 92.0 uh      | 1.50       |
| 21A224RBI | 275 uh                    | 123 uh       | 1.50       |
| 21A334RBI | 410 uh                    | 200 uh       | 1.55       |
| 21A474RBI | 580 uh                    | 300 uh       | 1.55       |
| 21A684RBI | 850 uh                    | 430 uh       | 1.60       |
| 21A824RBI | 1.00 mh                   | 510 uh       | 1.60       |
| 21A103RBI | 1.25 mh                   | 780 uh       | 1.65       |
| 21A153RBI | 1.87 mh                   | 1.10 mh      | 1.65       |
| 21A223RBI | 2.75 mh                   | 1.66 mh      | 1.70       |
| 21A333RBI | 4.10 mh                   | 2.40 mh      | 1.70       |
| 21A473RBI | 5.80 mh                   | 3.46 mh      | 1.85       |
| 21A683RBI | 8.50 mh                   | 5.25 mh      | 2.00       |
| 21A823RBI | 10.0 mh                   | 6.00 mh      | 2.15       |
| 21A102RBI | 12.5 mh                   | 9.20 mh      | 2.25       |

### Jumbo Adjustable R.F. Coils

Dimensions (form) 1/2" dia. x 1 7/8" long

| Part No.  | L Max. ± 5%               | L Min. ± 10% | List Price |
|-----------|---------------------------|--------------|------------|
| 22A000RBI | Coil Form w/hdw. and Core |              | \$1.25     |
| 22A105RBI | 12.5 uh                   | 5.70 uh      | 1.85       |
| 22A155RBI | 18.7 uh                   | 9.0 uh       | 1.85       |
| 22A225RBI | 27.5 uh                   | 12.0 uh      | 1.90       |
| 22A335RBI | 41.0 uh                   | 17.0 uh      | 1.90       |
| 22A475RBI | 58.0 uh                   | 24.5 uh      | 1.95       |
| 22A685RBI | 85.0 uh                   | 38.0 uh      | 1.95       |
| 22A825RBI | 100 uh                    | 41.0 uh      | 2.00       |
| 22A104RBI | 125 uh                    | 65.0 uh      | 2.00       |
| 22A154RBI | 187 uh                    | 94.0 uh      | 2.05       |
| 22A224RBI | 275 uh                    | 138 uh       | 2.05       |
| 22A334RBI | 410 uh                    | 205 uh       | 2.10       |
| 22A474RBI | 580 uh                    | 290 uh       | 2.10       |
| 22A684RBI | 850 uh                    | 430 uh       | 2.15       |
| 22A824RBI | 1.00 mh                   | 595 uh       | 2.15       |
| 22A103RBI | 1.25 mh                   | 760 uh       | 2.20       |
| 22A153RBI | 1.87 mh                   | 1.04 mh      | 2.20       |
| 22A223RBI | 2.75 mh                   | 1.56 mh      | 2.20       |
| 22A333RBI | 4.10 mh                   | 2.30 mh      | 2.25       |
| 22A473RBI | 5.80 mh                   | 3.40 mh      | 2.25       |
| 22A683RBI | 8.50 mh                   | 5.00 mh      | 2.25       |
| 22A823RBI | 10.0 mh                   | 4.20 mh      | 2.30       |
| 22A102RBI | 12.5 mh                   | 5.30 mh      | 2.30       |
| 22A152RBI | 18.7 mh                   | 8.20 mh      | 2.45       |
| 22A222RBI | 27.5 mh                   | 12.7 mh      | 2.45       |
| 22A332RBI | 41.0 mh                   | 17.8 mh      | 2.50       |
| 22A472RBI | 58.0 mh                   | 27.5 mh      | 2.55       |
| 22A682RBI | 85.0 mh                   | 42.0 mh      | 2.60       |
| 22A822RBI | 1                         |              |            |



# Miller

## Television Components



### 24 MC Unshielded Picture I.F. Transformers



For use as replacement units in television receivers where unshielded coils are called for and standard circuitry is employed. Mounting clip to fit  $\frac{3}{16}$ " hole in chassis. Shielded I.F. trans. are  $\frac{3}{4}$ " sq. x 2" high. Maximum Dimensions:  $2\frac{1}{2}$ " long.

| Cat. No. | Description                    | Trap     | Price  |
|----------|--------------------------------|----------|--------|
| 6245     | 25.5 MC First I.F.             | 27.25 MC | \$2.85 |
| 6246     | 22 MC Second I.F.              | 21.2 MC  | 2.85   |
| 6247     | 21.25 MC Cathode Trap          |          | 2.85   |
| 6248     | 24.5 MC Video Det. I.F.        |          | 1.75   |
| 6249     | 21-25 MC Bifilar Wound I.F.    |          | 1.75   |
| 6250     | 25-29 MC Bifilar Wound I.F.    |          | 1.75   |
| 6251     | 21-25 MC Bifilar I.F. Shielded |          | 2.50   |
| 6252     | 25-29 MC Bifilar I.F. Shielded |          | 2.50   |
| 6253     | 21-25 MC Bifilar I.F.          | 20-23 MC | 3.25   |
| 6254     | 25-29 MC Bifilar I.F.          | 24-29 MC | 3.25   |



### Picture I.F. Inductors Unshielded

Dimensions:  $\frac{1}{2}$ " max. o.d. x  $1\frac{1}{2}$ " long.

| Cat. No. | Description                | Freq.    | List Pr. |
|----------|----------------------------|----------|----------|
| 6188     | 3rd Pix I.F. Trans.        | 25.2 MC  | \$1.50   |
| 6189     | Video Detector I.F. Trans. | 23.4 MC  | 1.50     |
| 6193     | Cathode Sound Trap         | 21.25 MC | 2.25     |
| 6171     | Tunable Choke              | 21-25 MC | 1.45     |
| 6171A    | Tunable Choke              | 25-29 MC | 1.45     |



### 21.25 MC Television I.F. Transformers

Dimensions:

6185-6186-6187  $\frac{7}{8}$ " sq. x  $2\frac{1}{4}$ " high  
6170, 6190 and 6191  $\frac{7}{8}$ " sq. x  $2\frac{1}{4}$ " hi  
6184 and 6192  $1\frac{1}{8}$ " x  $1\frac{1}{8}$ " x  $2\frac{1}{2}$ " high  
6261 and 6262  $\frac{3}{4}$ " sq. x 2" high clip mtg.

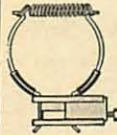
| Cat. No. | Description                 | Freq.    | List Pr. |
|----------|-----------------------------|----------|----------|
| 6185     | 21.8 MC Conv. I.F. Trans.   | 21.25 MC | \$3.10   |
| 6186     | 25.3 MC 1st Pix I.F. Trans. | 27.25 MC | 3.10     |
| 6187     | 22.3 MC 2nd Pix I.F. Trans. | 19.75 MC | 2.50     |
| 6190     | 1st Sound I.F. Trans.       | 21.25 MC | \$2.75   |
| 6191     | 2nd Sound I.F. Trans.       | 21.25 MC | 2.75     |
| 6192     | Sound Disc. Trans.          | 21.25 MC | 3.30     |
| 6184     | Sound Ratio Det. Trans.     | 21.25 MC | 3.85     |
| 6170     | Sound Disc. Trans.          | 21.25 MC | 3.80     |
| 6261     | Sound Disc. Trans.          | 21.25 MC | 3.75     |
| 6262     | Sound Ratio Det. Trans.     | 21.25 MC | 3.75     |



### 4.5 MC Intercarrier Sound Components

Dimensions 1466-67-68:  $1\frac{1}{8}$ " x  $1\frac{1}{8}$ " x  $2\frac{1}{8}$ " high.  
#1469, 1470 and 1480 Unshielded, Mounting hole  $\frac{3}{16}$ "  
1470-A and 1481  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x 2" hi  
#1498  $1\frac{3}{8}$ " x  $1\frac{3}{8}$ " x  $2\frac{1}{2}$ " high  
1483-84-95-86-87  $\frac{7}{8}$ " sq. x  $2\frac{1}{4}$ " high

| Cat. No. | Item                        | Freq.  | List Pr. |
|----------|-----------------------------|--------|----------|
| 1466     | Input or Inter. I.F. Trans. | 4.5 MC | \$3.00   |
| 1467     | Sound Discrim. Trans.       | 4.5 MC | 3.50     |
| 1468     | Sound Ratio Det. Trans.     | 4.5 MC | 3.75     |
| 1469     | Sound Pick Off Coil         | 4.5 MC | 1.50     |
| 1470     | Sound Trap Unshielded       | 4.5 MC | 1.50     |
| 1470-A   | Sound Trap Shielded         | 4.5 MC | 1.90     |
| 1480     | Quadrature Coil             | 4.5 MC | 1.50     |
| 1481     | Quadrature Coil Sh'd.       | 4.5 MC | 1.95     |
| 1482IFT  | Sound I.F. Trap             | 4.5 MC | 2.25     |
| 1483IF   | Sound I.F.                  | 4.5 MC | 3.00     |
| 1484RD   | Sound Ratio Det             | 4.5 MC | 3.50     |
| 1485RD   | Sound Ratio Det             | 4.5 MC | 3.50     |
| 1486RD   | Sound Ratio Det             | 3.5 MC | 3.50     |
| 1487RD   | Sound Ratio Det             | 4.5 MC | 3.50     |
| 1498     | Sound Ratio Det. Trans.     | 4.5 MC | 3.75     |



### Adjustable Ion Trap

Due to its adjustable feature, which allows the magnetic field to be varied between 32-55 gauss, this trap will, in most instances, replace the older style ion traps having a specific magnetic field.

| Cat. No. | Description         | List Price |
|----------|---------------------|------------|
| 6295     | Adjustable Ion Trap | \$1.50     |



### "40 MC" TV Picture I.F. Transformers

Converter transformer and 1st pix I.F. grid transformer have 75-ohm link winding.

Dimensions

6215-16-17-18  $\frac{7}{8}$ " sq. x  $2\frac{1}{4}$ " high  
6240  $1\frac{1}{8}$ " sq. x  $2\frac{3}{8}$ " high

| Cat. No. | Description               | Trap     | List Pr. |
|----------|---------------------------|----------|----------|
| 6215     | Converter I.F. Trans.     |          | \$2.75   |
| 6216     | 1st Pix I.F. Grid Trans.  | 39.25 MC | 3.30     |
| 6217     | 1st Pix I.F. Plate Trans. | 41.25 MC | 3.30     |
| 6218     | 2nd Pix I.F. Grid Trans.  | 47.25 MC | 3.10     |
| 6240     | Video Detector with Diode | 43.7 MC  | 7.50     |

### Unshielded



Dimensions:  $\frac{1}{2}$ " O.D. x  $2\frac{1}{4}$ " long.

| Cat. No. | Description                   | Trap           | List Price |
|----------|-------------------------------|----------------|------------|
| 6219     | 3rd-4th & 5th I.F.            | 41.75-45.75 MC | \$1.50     |
| 6220     | 41-45 MC Converter I.F.       |                | 1.50       |
| 6221     | 43.5 MC First I.F.            | 41.25 MC       | 2.95       |
| 6222     | 45.5 MC Second I.F.           | 47.25 MC       | 2.95       |
| 6223     | 40.0 MC Third I.F.            | 39.25 MC       | 2.95       |
| 6224     | 44 MC Fourth I.F.             |                | 1.55       |
| 6225     | 41-45 MC I.F., Single Winding |                | 1.70       |
| 6226     | Hi Q Trap                     | 40-46 MC       | 1.55       |

### Video Peaking Coils, Filament Choke

No. 6175 Filament Choke— $\frac{3}{8}$ " dia. x  $\frac{7}{8}$ " long;  
Video Peaking Coils— $\frac{3}{16}$ " dia. x  $\frac{1}{2}$ " long.

| Cat. No. | Use      | uhy | Resistor | List Price |
|----------|----------|-----|----------|------------|
| 6175     | Filament | 0.8 | None     | \$.85      |
| 6152     | Peaking  | 20  | None     | \$.85      |
| 6176     | Peaking  | 36  | None     | \$.85      |
| 6110     | Peaking  | 60  | None     | \$.85      |
| 6172     | Peaking  | 73  | None     | \$.85      |
| 6177     | Peaking  | 93  | None     | \$.85      |
| 6112     | Peaking  | 100 | None     | \$.85      |
| 6178     | Peaking  | 120 | 22K      | \$.85      |
| 6153     | Peaking  | 120 | None     | \$.85      |
| 6120     | Peaking  | 155 | None     | \$.85      |
| 6179     | Peaking  | 180 | 39K      | \$.85      |
| 6180     | Peaking  | 180 | None     | \$.85      |
| 6154     | Peaking  | 200 | None     | \$.85      |
| 6173     | Peaking  | 250 | 22K      | \$.85      |
| 6181     | Peaking  | 250 | None     | \$.85      |
| 6130     | Peaking  | 275 | None     | \$.85      |
| 6155     | Peaking  | 300 | None     | \$.85      |
| 6132     | Peaking  | 330 | None     | \$.85      |
| 6134     | Peaking  | 375 | None     | \$.85      |
| 6136     | Peaking  | 420 | None     | \$.85      |
| 6138     | Peaking  | 470 | None     | \$.85      |
| 6174     | Peaking  | 500 | None     | \$.85      |
| 6144     | Peaking  | 550 | None     | \$.85      |
| 6146     | Peaking  | 600 | None     | \$.85      |
| 6148     | Peaking  | 700 | None     | \$.85      |
| 6156     | Peaking  | 800 | None     | \$.85      |
| 6157     | Peaking  | 950 | None     | \$.85      |

### Antenna Matching Coils (Balun)



When two of these coils are connected in parallel at one end and in series at the other end, a 75 ohm to 300 ohm impedance matching transformer is obtained. This impedance match holds over the entire television range from channel 2 to 13 thus including the F.M. channels.

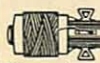
| Cat. No. | Description        | Size                               | List Price |
|----------|--------------------|------------------------------------|------------|
| 6103     | Ant. Matching Coil | $\frac{1}{4}$ " x $1\frac{1}{2}$ " | \$1.55     |
| 6104     | Ant. Matching Coil | $\frac{3}{8}$ " x $1\frac{3}{4}$ " | 1.15       |
| 6200     | Ant. Matching Coil | $\frac{3}{8}$ " x $2\frac{1}{2}$ " | 2.25       |
| 6202     | Ant. Matching Coil | $\frac{1}{2}$ " x $1\frac{3}{4}$ " | 2.25       |



### Horizontal Oscillator & Sync. Control Coils

Dimensions:  $1\frac{1}{8}$ " x  $1\frac{1}{8}$ " x  $2\frac{1}{2}$ " high, 6212 Unshielded, Mounting hole  $\frac{3}{16}$ "  
6211 and 6324 Unshielded, Mounting hole  $\frac{3}{16}$ "—6183 may be reversed in shield for top or bottom mounting. 6183-A coils reversed on form to tune Horiz. Osc. through chassis.

| Cat. No. | Item                               | List Price |
|----------|------------------------------------|------------|
| 6194     | Osc. & A.F.C. Discrim. Trans.      | \$3.10     |
| 6182     | Osc. and Sync. Control Coil        | 2.50       |
| 6183     | Osc. and Sync. Stabilizer Coil     | 3.25       |
| 6210     | Sync. Stabilizer Coil 16-42 mh     | 2.50       |
| 6211     | Sync. Stabilizer tapped 16-42 mh   | 2.50       |
| 6212     | Horiz. Osc. tapped 12-35 mh        | 2.50       |
| 6324     | Horiz. Osc. tapped 60-130 mh       | 2.50       |
| 6183-A   | Horiz. Osc. coil position reversed | 3.25       |



### Linearity & Width Controls

Dimensions:  $\frac{3}{4}$ " x  $2\frac{1}{2}$ " Max. The coils will mount in either a  $\frac{3}{16}$ " or  $\frac{7}{16}$ " hole with adapter supplied.

| Cat. No. | Inductance Range                  | List Price |
|----------|-----------------------------------|------------|
|          | Millihenries                      |            |
| 6313     | .5-5                              | \$2.00     |
| 6314     | 2.5-17                            | 1.90       |
| 6315     | 4-30                              | 2.00       |
| 6316     | 4-30 (2.8-6.5 AGC)                | 2.75       |
| 6317     | 3.2-9 (1.7-1.31 AGC)              | 2.50       |
| 6318     | -.3-3                             | 1.70       |
| 6319     | 15-60                             | 2.50       |
| 6320     | -.3-3 Tapped                      | 1.75       |
| 6321     | 1-5 Tapped                        | 2.00       |
| 6322     | 1.5-10                            | 1.90       |
| 6323     | .5-5 Tapped                       | 1.75       |
| 6324     | 60-130 Tapped                     | 2.50       |
| 6325     | 4.2-30 (1.78-1.37 AGC)            | 2.50       |
| 6326     | 2.5-19 Parallel (1.18-1.7 Series) | 3.50       |
| 6327     | 4-30 Parallel (.225-2.4 Series)   | 3.50       |
| 6328     | 9-24 (1.19-1.1 AGC)               | 2.50       |
| 6329     | 2.2-10 Tapped                     | 2.25       |
| 6330     | 45-215                            | 2.75       |
| 6331     | 4-30 Parallel (.080-.7 Series)    | 3.25       |
| 6195     | .185-1                            | 1.50       |
| 6196     | .054-.245                         | 1.25       |
| 6196-A   | .054-.5 Tapped                    | 1.45       |
| 6197     | .55-2.3 Tapped                    | 1.45       |
| 6198     | .17-.61                           | 1.25       |
| 6199-A   | 1.3-4.1 Tapped                    | 1.55       |
| 6199-B   | .5-1.7                            | 1.50       |



### Miniature 44 MC Picture Trans.

Converter and 1st pix I.F. Grid transformer have 75 ohm link winding. Dimensions:  $\frac{3}{4}$ " Square x 2" high.

| Cat. No. | Description         | Trap     | List Pr. |
|----------|---------------------|----------|----------|
| 6230     | Converter I.F.      |          | \$2.75   |
| 6231     | 44 MC First I.F.    |          | 2.75     |
| 6232     | 42.5 MC Second I.F. | 41.25 MC | 2.40     |
| 6233     | 45.5 MC Third I.F.  | 47.25 MC | 2.90     |
| 6234     | 44 MC Fourth I.F.   |          | 2.25     |



### Color T.V. Components

Dimensions

6022-6027—6028 Unshielded  
6024  $\frac{7}{8}$ " sq. x  $1\frac{7}{8}$ " high  
6021-6023-6026  $\frac{7}{8}$ " sq. x  $2\frac{3}{8}$ " high  
6025  $1\frac{1}{8}$ " sq. x  $2\frac{1}{4}$ " high

| Cat. No. | Description                 | Frequency | Price  |
|----------|-----------------------------|-----------|--------|
| 6021     | Chrome Bandpass Transformer | 3.58 Mc   | \$3.25 |
| 6022     | Chrome Bandpass Coil        | 3.58 Mc   | 2.35   |
| 6023     | Burst Transformer           | 3.58 Mc   | 5.00   |
| 6024     | Output Transformer          | 3.58 Mc   | 4.00   |
| 6025     | Sync and Phase Det          | 3.58 Mc   | 7.00   |
| 6026     | Chroma Reference Osc        | 3.58 Mc   | 5.00   |
| 6027     | Trap                        | 3.58 Mc   | 2.50   |
| 6028     | Chroma Sync Take Off        | 3.58 MC   | 2.50   |

For a Complete Listing of MILLER PRODUCTS ask for a copy of our Latest General Catalog.



# Miller

## Radio Frequency Coils



### Miniature Adjustable R.F. Coils

These high Q adjustable iron core coils are for general replacement use.

Dimensions:  
1/2" dia. x 1 1/2" long (Nos. 70-A and 70-RF).  
1/2" dia. x 1 1/8" long (Nos. 69-OSC and 70-OSC).

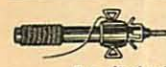
| Cat. No.                                   | Use              | Freq. Range | List Price |
|--|------------------|-------------|------------|
| 70-A                                       | Antenna Stage    | 540-1600 KC | \$1.75     |
| 70-RF                                      | R.F. Stage       | 540-1600 KC | 1.75       |
| 70-OSC                                     | Oscillator Stage | 540-1600 KC | 1.75       |
| Has pri. and tapped sec. (I.F. 100-550 KC) |                  |             |            |
| 69-OSC                                     | Oscillator Stage | 540-1600 KC | 1.75       |
| Capacity coupled type (100-550 KC)         |                  |             |            |



### Universal Adjustable Oscillator Coil

These adjustable iron core oscillator coils are for general replacement use.  
Dimensions: 3/8" x 1 1/2" high.

| Cat. No.          | Use              | Freq. Range      | List Pr. |
|-------------------|------------------|------------------|----------|
| 71-OSC            | Oscillator Stage | R.F. 500-1800 KC | \$2.50   |
| (I.F. 100-550 KC) |                  |                  |          |



### High-Q Ferrite Antenna Coil

Supplied with mounting bracket  
Dimensions: 3/8" diameter x 2 1/4" long.

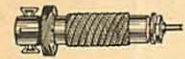
| Cat. No. | Use           | Freq. Range | List Pr. |
|----------|---------------|-------------|----------|
| 6300     | Antenna Stage | 540-1700 KC | \$1.40   |



### Adjustable FM R.F. Coils

Dimensions: 1/2" O.D. x 1 1/8" long.

| Cat. No. | Item                               | List Price |
|----------|------------------------------------|------------|
| 1447     | 88-108 MC Antenna Coil             | \$1.85     |
| 1448     | 88-108 MC R.F. Coil                | 1.85       |
| 1449     | 88-108 MC Osc. Coil (10.7 MC I.F.) | 1.85       |



### Unshielded High-Q R.F. Coils

A complete line of Unshielded Permeability tuned coils for replacement use or as the front end components in new receiver design. These #5495 series coils can be shielded in our #S-32 shields (1 1/8" sq.) with very little loss in Q. Mounting is by means of a single 1/4" hole. Dimensions (form): 3/8" x 2". Ranges shown are for use with a 365 mmfd. variable tuning condenser.

Long Wave Coils (140-420 KC)

| Cat. No.  | Use                  | List Price |
|-----------|----------------------|------------|
| X-5495-A  | Antenna Stage        | \$2.50     |
| X-5495-RF | RF Stage             | 2.50       |
| X-5495-C  | Standard Osc. 455 KC | 2.50       |
| X-5496-C  | Tapped Osc. 455 KC   | 2.50       |

Broadcast Band Coils (540-1700 KC)

| Cat. No.  | Use                  | List Price |
|-----------|----------------------|------------|
| A-5495-A  | Antenna Stage        | \$2.50     |
| A-5495-RF | RF Stage             | 2.50       |
| A-5495-C  | Standard Osc. 455 KC | 2.50       |
| A-5496-C  | Tapped Osc. 455 KC   | 2.50       |

Medium Wave Coils (1.7-5.5 MC)

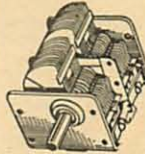
| Cat. No.  | Use                  | List Price |
|-----------|----------------------|------------|
| B-5495-A  | Antenna Stage        | \$2.50     |
| B-5495-RF | RF Stage             | 2.50       |
| B-5495-C  | Standard Osc. 455 KC | 2.50       |
| B-5496-C  | Tapped Osc. 455 KC   | 2.50       |

Short Wave Broadcast Coils (5-18 MC)

| Cat. No.  | Use                  | List Price |
|-----------|----------------------|------------|
| C-5495-A  | Antenna Stage        | \$2.50     |
| C-5495-RF | RF Stage             | 2.50       |
| C-5495-C  | Standard Osc. 455 KC | 2.50       |
| C-5496-C  | Tapped Osc. 455 KC   | 2.50       |

High Frequency Coils (12-36 MC)

| Cat. No.  | Use                  | List Price |
|-----------|----------------------|------------|
| D-5495-A  | Antenna Stage        | \$2.50     |
| D-5495-RF | RF Stage             | 2.50       |
| D-5495-C  | Standard Osc. 455 KC | 2.50       |
| D-5496-C  | Tapped Osc. 455 KC   | 2.50       |



### Midget Variable Condensers

Split outer plates on the rotors permit accurate alignment. High frequency trimmers are provided on the short side of the condenser.

Mounting is provided by tapped holes in the frame of the condenser. Counter-clock rotation for capacity increase. Shaft dia. is 1/4" x 1" long. Capacity range—10 to 365 mmfd.

| Cat. No. | Sections | Dimensions               | List Price |
|----------|----------|--------------------------|------------|
| 2111     | 1        | 1 1/8" x 1 1/8" x 1 5/8" | \$3.25     |
| 2112     | 2        | 2 3/8" x 1 1/8" x 1 5/8" | 4.00       |
| 2113     | 3        | 3 3/8" x 1 1/8" x 1 5/8" | 5.50       |

### Adjustable Padder Condensers

Used as adjustable oscillator padding condenser in super-het receivers to insure proper three-point tracking. They also find application as the horizontal drive control in television receivers. 1/4" single hole mounting.  
Dimensions: 7/8" x 1" x 3/8" thick.

| Cat. No. | Capacity Range | List Price |
|----------|----------------|------------|
| 160-A    | 360-1000 mmfd. | \$1.40     |
| 160-B    | 50-400 mmfd.   | 1.25       |
| 160-C    | 200-600 mmfd.  | 1.40       |
| 160-D    | 10-160 mmfd.   | 1.10       |
| 160-E    | 25-280 mmfd.   | 1.20       |



### Adjustable R.F. Coils

Particularly recommended for aircraft, marine and mobile equipment and general custom receiver construction. Coils are designed for use with standard 365 mmfd. tuning condenser.  
Dimensions: 1 1/8" square x 2" high.  
Broadcast Band 540-1700 KC

| Cat. No. | Use         | I.F. Freq. | List Pr. |
|----------|-------------|------------|----------|
| A-320-A  | Antenna     |            | \$2.50   |
| A-320-RF | Interstage  |            | 2.50     |
| A-320-M  | 2-coil Osc. | 132 KC     | 2.50     |
| A-320-C  | 2-coil Osc. | 455 KC     | 2.50     |
| A-321-M  | Tapped Osc. | 132 KC     | 2.50     |
| A-321-C  | Tapped Osc. | 455 KC     | 2.50     |

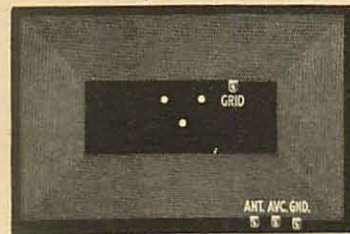
### Marine & Aircraft Band 2100-6300 KC

| Cat. No. | Use         | List Price |      |
|----------|-------------|------------|------|
| B-320-A  | Antenna     | \$2.50     |      |
| B-320-RF | Interstage  | 2.50       |      |
| B-320-M  | 2-coil Osc. | 132 KC     | 2.50 |
| B-320-C  | 2-coil Osc. | 455 KC     | 2.50 |
| B-321-M  | Tapped Osc. | 132 KC     | 2.50 |
| B-321-C  | Tapped Osc. | 455 KC     | 2.50 |

### Short Wave Band 6.0-18 MC

| Cat. No. | Use         | List Price |      |
|----------|-------------|------------|------|
| C-320-A  | Antenna     | \$2.50     |      |
| C-320-RF | Interstage  | 2.50       |      |
| C-320-C  | 2-coil Osc. | 455 KC     | 2.50 |
| C-321-C  | Tapped Osc. | 455 KC     | 2.50 |

### Loop Antenna



The Miller No. 703A Loop Antenna utilizes the patented "Air Loop" construction which provides high Q and mechanical rigidity. The Q of the loop is 150 at 790 KC and is substantially uniform throughout the standard broadcast band. Secondary inductance 253 microhenries. Inductance may be reduced as necessary by removing turns from the inside terminal.

Dimensions: 8 1/2" wide x 5 3/8" high x 1 1/8" thick.

| Cat. No. | Frequency Range | List Price |
|----------|-----------------|------------|
| 703A     | 540-1700 KC     | \$3.25     |



### Miniature Hi-Q Coils

Cup core construction for high Q. Permeability tuning to adjust inductance. Antenna and oscillator coils have tapped windings, R.F. coil features impedance coupling.  
Dimensions of shield: 3/4" sq. x 1 3/8" high.

| Cat. No. | Use           | Freq. Range        | List Price |
|----------|---------------|--------------------|------------|
| A-123-A  | Antenna Stage | 535—1700 kc        | \$2.50     |
| A-123-RF | R.F. Stage    | 535—1700 kc        | 2.50       |
| A-123-C  | Osc. Stage    | 455 kc.— .0004 Pad | 2.50       |



### Universal Replacement Coils (Permeability Tuned)

This series of variable inductance iron core coils are well suited for general replacement. Adjusted to cover the standard broadcast band with a tuning condenser having a maximum capacity of between 250 and 450 mmfd. The oscillator coils may be used with any I.F. amplifier operating in the 100 to 550 KC range.  
Dimensions: 7/8" diameter x 2" high

Unshielded "L" mtg. bracket.

| Cat. No. | Use                               | Freq. Range | List Pr. |
|----------|-----------------------------------|-------------|----------|
| 72-A     | Antenna Stage                     | 500-1800 KC | \$2.75   |
| 72-RF    | R.F. Stage                        | 500-1800 KC | 2.75     |
| 72-OSC   | Oscillator Stage (see text above) |             | 2.75     |

Shielded Dimensions: 1 1/8" square x 2 1/2" high

| Cat. No. | Use                               | Freq. Range | List Pr. |
|----------|-----------------------------------|-------------|----------|
| 73-A     | Antenna Stage                     | 500-1800 KC | \$3.20   |
| 73-RF    | R.F. Stage                        | 500-1800 KC | 3.20     |
| 73-OSC   | Oscillator Stage (see text above) |             | 3.20     |



### Standard Bank Wound Coils

High gain general purpose coils featuring high impedance coupled antenna and R.F. units with progressive wound litz wire secondaries (except oscillator coils). For use with standard 365 mmfd tuning condenser. All windings are thoroughly impregnated with tropicalized R.F. lacquer.  
Dimensions: 1 3/8" square x 2 1/2" high.

| Cat. No. | Use             | Freq. Range | List Pr.   |
|----------|-----------------|-------------|------------|
| 44-A     | Antenna Stage   | 540-1700 KC | \$1.75     |
| 44-RF    | R.F. Stage      | 540-1700 KC | 1.75       |
| 44-BP    | Band-Pass Stage | 540-1700 KC | 1.75       |
| Cat. No. | I.F. Freq.      | Series Pad  | List Price |
| 44-H     | 262 KC          | .0006 "     | 1.75       |
| 44-C     | 455 KC          | .0004 "     | 1.75       |

Tapped osc. coils (for 6SA7 and similar tubes)

| Cat. No. | I.F. Freq. | Series Pad | List Price |
|----------|------------|------------|------------|
| 41-H     | 262 KC     | .0006 "    | 1.75       |
| 41-C     | 455 KC     | .0004 "    | 1.75       |

Unshielded Dimensions: 3/8" diameter (form) x 2 1/8" high.

| Cat. No. | Use             | Freq. Range | List Pr.   |
|----------|-----------------|-------------|------------|
| 43-A     | Antenna Stage   | 540-1700 KC | \$1.50     |
| 43-RF    | R.F. Stage      | 540-1700 KC | 1.50       |
| 43-BP    | Band-Pass Stage | 540-1700 KC | 1.50       |
| Cat. No. | I.F. Freq.      | Series Pad  | List Price |
| 43-H     | 262 KC          | .0006 "     | 1.50       |
| 43-C     | 455 KC          | .0004 "     | 1.50       |

Tapped osc. coils (for 6SA7 and similar tubes)

| Cat. No. | I.F. Freq. | Series Pad | List Price |
|----------|------------|------------|------------|
| 45-H     | 262 KC     | .0006 "    | 1.50       |
| 45-C     | 455 KC     | .0004 "    | 1.50       |

### Electric Shaver Filter

This filter contains an inductive-capacitive circuit consisting of two duo-lateral wound chokes and a non-inductive condenser, giving complete freedom from radio interference. Most electric shavers act as miniature transmitters and feed interference energy into the house wiring and it is then picked up by the radio receiver. Dimensions: 1 1/8" diameter x 3" long.

| Cat. No. | Volts | Watts | Finish | List Price |
|----------|-------|-------|--------|------------|
| 7817     | 115   | 50    | Black  | \$4.00     |
| 7817-I   | 115   | 50    | Ivory  | 4.00       |

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# Miller

## Intermediate Frequency Transformers



### Permeability Tuned Transformers

Miller permeability tuned intermediate frequency transformers are recommended for all applications where a high degree of frequency stability and operation under humid conditions will be encountered.

Dimensions:  $1\frac{3}{8}$ " square x  $3\frac{1}{4}$ " high. #6/32 spade bolt mounting.

| Cat. No. | Freq. | KC Range  | Use        | List Price |
|----------|-------|-----------|------------|------------|
| 912-H1   | 262   | 250-275   | Input      | \$4.50     |
| 912-H2   | 262   | 250-275   | Interstage | 4.50       |
| 912-H3   | 262   | 250-275   | Full-Wave  | 4.50       |
| 912-H4   | 262   | 250-275   | Half-Wave  | 4.50       |
| 912-C1   | 455   | 450-475   | Input      | 4.50       |
| 912-C2   | 455   | 450-475   | Interstage | 4.50       |
| 912-C3   | 455   | 450-475   | Full-Wave  | 4.50       |
| 912-C4   | 455   | 450-475   | Half-Wave  | 4.50       |
| 912-W1   | 1500  | 1400-1600 | Input      | 4.50       |
| 912-W2   | 1500  | 1400-1600 | Interstage | 4.50       |
| 912-W3   | 1500  | 1400-1600 | Full-Wave  | 4.50       |
| 912-W4   | 1500  | 1400-1600 | Half-Wave  | 4.50       |

### Perm. Tuned I.F. and Disc. Trans.



For use in communications receivers designed for A.M. or Narrow Band F.M. These transformers feature high gain along with a high degree of frequency stability.

Dimensions:  $1\frac{3}{8}$ " sq. x  $2\frac{1}{2}$ " high. #6-32 spade bolt mounting.

| Cat No. | Freq. | Kc Range  | Use                 | List Price |
|---------|-------|-----------|---------------------|------------|
| 913-C1  | 455   | 450-475   | Input or Interstage | \$3.50     |
| 913-C4  | 455   | 450-475   | Output              | 3.50       |
| 913-CD  | 455   | 450-475   | Discriminator       | 3.90       |
| 913-W1  | 1500  | 1400-1600 | Input or Interstage | 3.50       |
| 913-W4  | 1500  | 1400-1600 | Output              | 3.50       |
| 913-W4  | 1500  | 1400-1600 | Discriminator       | 3.90       |



### Replacement I.F. Transformers

These transformers are an essential part of the stock of every serviceman and dealer. In many cases they will give better performance than the original transformer. These transformers may be used as replacements in most makes of receivers using transformers of the same physical size.

Dimensions:  $1\frac{3}{8}$ " square x  $2\frac{5}{8}$ " high. #6/32 spade bolt mounting.

| Cat. No. | Freq. | KC Range  | Use        | List Price |
|----------|-------|-----------|------------|------------|
| 512-H1   | 262   | 250-275   | Input      | \$3.00     |
| 512-H2   | 262   | 250-275   | Interstage | 3.00       |
| 512-H3   | 262   | 250-275   | Full-Wave  | 3.00       |
| 512-H4   | 262   | 250-275   | Half-Wave  | 3.00       |
| 512-C1   | 455   | 450-475   | Input      | 3.00       |
| 512-C2   | 455   | 450-475   | Interstage | 3.00       |
| 512-C3   | 455   | 450-475   | Full-Wave  | 3.00       |
| 512-C4   | 455   | 450-475   | Half-Wave  | 3.00       |
| 512-W1   | 1500  | 1400-1600 | Input      | 3.00       |
| 512-W2   | 1500  | 1400-1600 | Interstage | 3.00       |
| 512-W3   | 1500  | 1400-1600 | Full-Wave  | 3.00       |
| 512-W4   | 1500  | 1400-1600 | Half-Wave  | 3.00       |

### Iron Core Transformers

Dimensions:  $1\frac{3}{8}$ " square x  $3\frac{1}{4}$ " high. #6/32 spade bolt mounting.

| Cat. No. | Freq. | KC Range | Use        | List Price |
|----------|-------|----------|------------|------------|
| 612-K1   | 175   | 165-185  | Input      | \$3.95     |
| 612-K2   | 175   | 165-185  | Interstage | 3.95       |
| 612-K3   | 175   | 165-185  | Full-Wave  | 3.95       |
| 612-K4   | 175   | 165-185  | Half-Wave  | 3.95       |
| 612-H1   | 262   | 250-275  | Input      | 3.50       |
| 612-H2   | 262   | 250-275  | Interstage | 3.50       |
| 612-H3   | 262   | 250-275  | Full-Wave  | 3.50       |
| 612-H4   | 262   | 250-275  | Half-Wave  | 3.50       |
| 612-C1   | 455   | 450-475  | Input      | 3.50       |
| 612-C2   | 455   | 450-475  | Interstage | 3.50       |
| 612-C3   | 455   | 450-475  | Full-Wave  | 3.50       |
| 612-C4   | 455   | 450-475  | Half-Wave  | 3.50       |



### Sub-Miniature I.F. Transformers

Through the use of a Ferrite shell core material these Sub-Miniature I.F. Transformers offer the gain and bandwidth characteristics previously obtained in only larger I.F. assemblies. (For Battery or AC-DC Radios.)

Dimensions:  $\frac{1}{2}$ " sq. x  $1\frac{1}{2}$ " high.

| Cat. No. | Item                      | List Price |
|----------|---------------------------|------------|
| 10-C1    | 455 KC Input I.F. Trans.  | \$2.80     |
| 10-C2    | 455 KC Output I.F. Trans. | 2.80       |



### Universal I.F. Transformers

For general replacement purposes in auto receivers and many types of household and portable receivers.

Dimensions:  $1\frac{1}{4}$ " square x  $2\frac{1}{2}$ " high.

| Cat. No. | Freq. | KC Range | Use             | List Price |
|----------|-------|----------|-----------------|------------|
| 312-H1   | 262   | 250-275  | Input           | \$2.85     |
| 312-H2   | 262   | 250-275  | Interstage      | 2.85       |
| 312-H4   | 262   | 250-275  | Output          | 2.85       |
| 312-H6   | 262   | 250-275  | Output & Filter | 3.25       |
| 312-C1   | 455   | 440-470  | Input           | 2.85       |
| 312-C2   | 455   | 440-470  | Interstage      | 2.85       |
| 312-C4   | 455   | 440-475  | Output          | 2.85       |
| 312-C6   | 455   | 440-470  | Output & Filter | 3.25       |

### Type No. 412 Iron Core Transformers

Dimensions:  $1\frac{1}{4}$ " square x  $2\frac{1}{2}$ " high.

| Cat. No. | Freq. | KC Range | Use        | List Price |
|----------|-------|----------|------------|------------|
| 412-H1   | 262   | 250-275  | Input      | \$2.85     |
| 412-H2   | 262   | 250-275  | Interstage | 2.85       |
| 412-H4   | 262   | 250-275  | Output     | 2.85       |
| 412-C1   | 455   | 440-470  | Input      | 2.85       |
| 412-C2   | 455   | 440-470  | Interstage | 2.85       |
| 412-C4   | 455   | 440-470  | Output     | 2.85       |



### Midget I.F. Transformers

Dimensions:  $1\frac{1}{8}$ " square x  $2$ " high. #6/32 spade bolt mounting.

### AC Core Transformers

| Cat. No. | Freq. | KC Range  | Use                   | List Price |
|----------|-------|-----------|-----------------------|------------|
| 112-H1   | 262   | 250-275   | Input                 | \$3.00     |
| 112-H2   | 262   | 250-275   | Interstage            | 3.00       |
| 112-H3   | 262   | 250-275   | Full-Wave             | 3.00       |
| 112-H4   | 262   | 250-275   | Half-Wave             | 3.00       |
| 112-H6   | 262   | 250-275   | Output Stage & Filter | 3.25       |
| 112-C1   | 455   | 450-475   | Input                 | 3.00       |
| 112-C2   | 455   | 450-475   | Interstage            | 3.00       |
| 112-C3   | 455   | 450-475   | Full-Wave             | 3.00       |
| 112-C4   | 455   | 450-475   | Half-Wave             | 3.00       |
| 112-W1   | 1500  | 1400-1600 | Input                 | 3.00       |
| 112-W2   | 1500  | 1400-1600 | Interstage            | 3.00       |
| 112-W3   | 1500  | 1400-1600 | Full-Wave             | 3.00       |
| 112-W4   | 1500  | 1400-1600 | Half-Wave             | 3.00       |

### Iron Core Transformers

| Cat. No. | Freq. | KC Range | Use        | List Price |
|----------|-------|----------|------------|------------|
| 012-K1   | 175   | 165-185  | Input      | \$3.20     |
| 012-K2   | 175   | 165-185  | Interstage | 3.20       |
| 012-K3   | 175   | 165-185  | Full-Wave  | 3.20       |
| 012-K4   | 175   | 165-185  | Half-Wave  | 3.20       |
| 012-H1   | 262   | 250-275  | Input      | 3.10       |
| 012-H2   | 262   | 250-275  | Interstage | 3.10       |
| 012-H3   | 262   | 250-275  | Full-Wave  | 3.10       |
| 012-H4   | 262   | 250-275  | Half-Wave  | 3.10       |
| 012-C1   | 455   | 450-475  | Input      | 3.10       |
| 012-C2   | 455   | 450-475  | Interstage | 3.10       |
| 012-C3   | 455   | 450-475  | Full-Wave  | 3.10       |
| 012-C4   | 455   | 450-475  | Half-Wave  | 3.10       |



### Miniature I.F. Transformers

Designed for experimental use and for general replacement in "personal" radio receivers, this series of shell core permeability tuned transformers are becoming increasingly popular. Tuning from top and

bottom of the shield, Transformers are available for all standard I.F. frequencies.

(With diode filter capacitors)

Dimensions:  $\frac{3}{4}$ " by  $\frac{3}{4}$ " by  $2$ " high.

| Cat. No.                                       | Item                           | List Price    |
|--|--------------------------------|---------------|
| 12-H1  | 262 KC Inrpt I.F. Trans        | \$2.90        |
| 12-H2  | 262 KC Output I.F. Trans.      | 2.90          |
| 12-H6  | 262 KC Output I.F. Trans.*     | 3.00          |
| 12-C1  | 455 KC Input I.F. Trans.       | 2.70          |
| 12-C2  | 455 KC Output I.F. Trans.      | 2.70          |
| 12-C6  | 455 KC Output I.F. Trans. *    | 2.85          |
| 12-C7  | 455 KC Input I.F. Battery      | 2.70          |
| 12-C8  | 455 KC Output I.F. Battery     | 2.70          |
| 12-C9  | 455 KC Input I.F. AC-DC        | 2.70          |
| 12-C10   | 455 KC Output I.F. AC-DC       | 2.70          |
| 12-C11   | 455 KC I.F. Trans.             | 2.70          |
| Exact replacement for G.E. RTL-143, & RTL-163. |                                |               |
| 12-C12   | 455 KC Tapped Pri. I.F. Trans. | 3.25          |
| 12-C45   | 455 KC Discriminator           | 3.95          |
| 13-W1  | 1500 KC Input or Interstage    | 2.75          |
| 13-W2  | 1500 KC Output I.F. Trans.     | 2.75          |
| 1463   | 10.7 MC Input or Interstage    | 3.25          |
| 1464   | 10.7 MC Discriminator          | 3.75          |
| 1465   | 10.7 MC Ratio Detector         | 3.90          |
| 1464-WB  | 10.7 MC Disc. 900 KC. P/P      | 3.75          |
| 1465-WB  | 10.7 MC Ratio Det. 800 KC. P/P | 3.90          |
| 6203   | 4.5 MC Input or Interstage     | 3.30          |
| 6204   | 4.5 MC Discriminator           | 3.75          |
| 6205   | 4.5 MC Ratio Detector          | 3.75          |
| 6260   | 21.25 MC I.F. Trans.           | 4.25          |
| 6261   | 21.25 MC Discriminator         | 3.75          |
| 6262   | 21.25 MC Radio Detector        | 3.75          |
| 6230   | TV Converter I.F.              | 2.75          |
| 6231   | TV 44 MC First I.F.            | Trap 2.75     |
| 6232   | TV 42.5 MC Second I.F.         | 41.25 MC 2.40 |
| 6233   | TV 45.5 MC Third I.F.          | 47.25 MC 2.90 |
| 6234   | TV 44 MC Fourth I.F.           | 2.25          |

### Miniature Printed Circuit I.F. Trans.

This series of miniature I.F. transformers have been specifically designed for printed circuit applications. May be used in new equipment design, or as replacement transformers. Same as our regular miniature I.F. transformers shown above, except for terminals and mounting. Supplied in all standard frequencies.

(With diode filter capacitors)

Dimensions:  $\frac{3}{4}$ " sq. x  $2$ " high.

| Cat. No. | Item                              | List Price    |
|----------|-----------------------------------|---------------|
| 13-PH1   | 262 KC Input I.F. Trans.          | \$2.85        |
| 13-PH2   | 262 KC Output I.F. Trans.         | 2.85          |
| 13-PH6   | 262 KC Output I.F. Trans. *       | 3.00          |
| 13-PC1   | 455 KC Input I.F. Trans.          | 2.75          |
| 13-PC2   | 455 KC Output I.F. Trans.         | 2.75          |
| 13-PC6   | 455 KC Output I.F. Trans. *       | 2.90          |
| 13-PC7   | 455 KC Input I.F. Trans. Battery  | 2.75          |
| 13-PC8   | 455 KC Output I.F. Trans. Battery | 2.75          |
| 13-PC9   | 455 KC Input I.F. Trans. AC-DC    | 2.75          |
| 13-PC10  | 455 KC Output I.F. Trans. AC-DC   | 2.75          |
| 6203-PC  | 4.5 MC Input or Interstage        | 3.30          |
| 6204-PC  | 4.5 MC Discriminator Trans.       | 3.75          |
| 6205-PC  | 4.5 MC Ratio Detector Trans.      | 3.75          |
| 6206-PC  | 4.5 MC Ratio Det. (GE-RTD-026)    | 4.95          |
| 6207-PC  | 4.5 MC Ratio Det. (GE-RTD-025)    | 4.15          |
| 6208-PC  | 4.5 MC Ratio Det. (GE-RTD-020)    | 4.95          |
| 1463-PC  | 10.7 MC Input or Interstage       | 3.25          |
| 1464-PC  | 10.7 MC Discriminator Trans.      | 3.75          |
| 1465-PC  | 10.7 MC Ratio Detector Trans.     | 3.90          |
| 6230-PC  | TV 44 MC Converter I.F. Trans.    | 3.10          |
| 6231-PC  | TV 44 MC First I.F. Trans.        | Trap 3.10     |
| 6232-PC  | TV 42.5 MC Second I.F.            | 41.25 MC 2.80 |
| 6233-PC  | TV 45.5 MC Third I.F.             | 47.25 MC 3.10 |
| 6234-PC  | TV 44 MC Fourth I.F. Trans.       | 2.75          |

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