

# Ultra Miniature Transformers

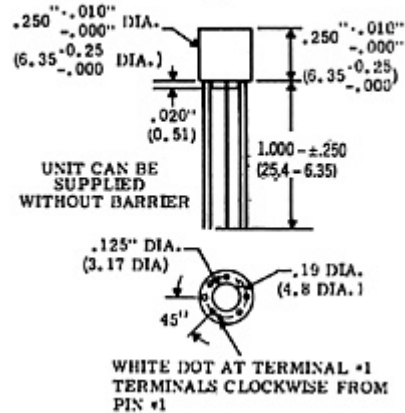
## F Series Thru Hole and G Series Insulated Leads

(.25"dia. x .25"ht.)

### Specifications

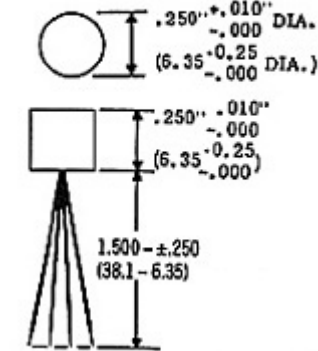
- **MIL-PRF-27:** All units manufactured to MIL-PRF-27, Grade 5, Class S.
- **FREQUENCY RESPONSE:**  $\pm 3$ db, 400 Hz - 250 KHz at 1.0 Milliwatt.
- **MAXIMUM DISTORTION:** 5% With Rated Power Level at 1 KHz and 400 Hz.
- **DIELECTRIC STRENGTH:** All Units Tested at 200 V RMS.
- **INSULATION RESISTANCE:** Greater Than 10,000 Megohms at 300 V DC.
- **WEIGHT:** 1.1 Grams.
- **OPERATING TEMPERATURE:** -55° C to +130° C.
- **TERMINALS:** Solid .012 Diameter Conductor, Solderability per MIL-STD-202 Method 208.
- **THERMAL SHOCK:** 25 Cycles, Method 107D, MIL-STD-202E, Test Condition A-1.

### F SERIES Plug-In



[Larger size drawing  
of F Series](#)

### G SERIES Insulated Leads



DIMENSIONS ARE IN INCHES ( MM )

[Larger size drawing  
of G Series](#)

[Click here for Surface Mount versions of these units.](#)

## Ultra Miniature Transformers: F Series Thru Hole and G Series Insulated Leads

| Part Number        |                       | Prim. Imped. Ohms | Sec. Imped. Ohms Split Windings |     | Power Milliwatts |                   | Prim. Unbal. DC Curr. ma | Prim. DC Resist. Ohms | Sec. DC Resist. Ohms |          | Turns Ratio Prim/Sec. |              | Prices 1-9*** (US \$) |        |
|--------------------|-----------------------|-------------------|---------------------------------|-----|------------------|-------------------|--------------------------|-----------------------|----------------------|----------|-----------------------|--------------|-----------------------|--------|
| F Series Thru Hole | G Series Insul. Leads |                   | SER                             | PAR | 1 KHz and higher | 400 Hz and higher |                          |                       | Ser Conn             | Par Conn | Sec Ser Conn          | Sec Par Conn | F Ser.                | G Ser. |

|         |         |      |      |     |     |    |      |      |      |      |        |        |       |       |
|---------|---------|------|------|-----|-----|----|------|------|------|------|--------|--------|-------|-------|
| F-28003 | G-29003 | 10ct | 10ct | 2.5 | 125 | 20 | 11.5 | 1.1  | 1.35 | .34  | 1:1    | 2:1    | 88.40 | 84.07 |
| F-28005 | G-29005 | 20ct | 8ct  | 2   | 125 | 20 | 8    | 2.1  | 1.28 | .32  | 1.58:1 | 3.16:1 | 88.40 | 84.07 |
| F-28010 | G-29010 | 20ct | 20ct | 5   | 125 | 20 | 8    | 2.1  | 2.56 | .64  | 1:1    | 2:1    | 88.40 | 84.07 |
| F-28015 | G-29015 | 32ct | 32ct | 8   | 125 | 20 | 6.5  | 3.52 | 4.32 | 1.08 | 1:1    | 2:1    | 88.40 | 84.07 |
| F-28020 | G-29020 | 40ct | 40ct | 10  | 125 | 20 | 5.6  | 4    | 4.77 | 1.19 | 1:1    | 2:1    | 88.40 | 84.07 |

| Ultra Miniature Transformers:<br>F Series Thru Hole and G Series Insulated Leads |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              |                       |        |
|----------------------------------------------------------------------------------|-----------------------|-------------------|---------------------------------|------|------------------|-------------------|--------------------------|-----------------------|----------------------|----------|-----------------------|--------------|-----------------------|--------|
| Part Number                                                                      |                       | Prim. Imped. Ohms | Sec. Imped. Ohms Split Windings |      | Power Miliwatts  |                   | Prim. Unbal. DC Curr. ma | Prim. DC Resist. Ohms | Sec. DC Resist. Ohms |          | Turns Ratio Prim/Sec. |              | Prices 1-9*** (US \$) |        |
| F Series Thru Hole                                                               | G Series Insul. Leads |                   | SER                             | PAR  | 1 KHz and higher | 400 Hz and higher |                          |                       | Ser Conn             | Par Conn | Sec Ser Conn          | Sec Par Conn | F Ser.                | G Ser. |
| F-28025                                                                          | G-29025               | 48ct              | 16ct                            | 4    | 125              | 20                | 5.2                      | 4.3                   | 2.3                  | .58      | 1.73:1                | 3.46:1       | 80.38                 | 76.48  |
| F-28030                                                                          | G-29030               | 50ct              | 50ct                            | 12.5 | 125              | 20                | 5                        | 5.5                   | 6.6                  | 1.65     | 1:1                   | 2:1          | 80.38                 | 76.48  |
| F-28035                                                                          | G-29035               | 80ct              | 32ct                            | 8    | 125              | 20                | 4                        | 8.5                   | 4.25                 | 1.06     | 1.58:1                | 3.16:1       | 80.38                 | 76.48  |
| F-28040                                                                          | G-29040               | 100ct             | 40ct                            | 10   | 125              | 20                | 3.6                      | 12.1                  | 4.85                 | 1.21     | 1.58:1                | 3.16:1       | 80.38                 | 76.48  |
| F-28045                                                                          | G-29045               | 100ct             | 100ct                           | 25   | 125              | 20                | 3.6                      | 12.1                  | 12                   | 3        | 1:1                   | 2:1          | 87.73                 | 83.35  |
| F-28050                                                                          | G-29050               | 120ct             | 12.8ct                          | 3.2  | 125              | 20                | 3.3                      | 13.2                  | 1.6                  | .4       | 3.06:1                | 6.12:1       | 87.73                 | 76.48  |
| F-28055                                                                          | G-29055               | 120ct             | 60ct                            | 15   | 125              | 20                | 3.3                      | 13.2                  | 7.3                  | 1.83     | 1.41:1                | 2.83:1       | 96.04                 | 91.21  |
| F-28060                                                                          | G-29060               | 120ct             | 120ct                           | 30   | 125              | 20                | 3.3                      | 13.2                  | 16                   | 4        | 1:1                   | 2:1          | 96.04                 | 91.21  |
| F-28065                                                                          | G-29065               | 150ct             | 12ct                            | 3    | 125              | 20                | 3                        | 15                    | 1.56                 | .39      | 3.54:1                | 7.07:1       | 87.28                 | 83.09  |
| F-28070                                                                          | G-29070               | 150ct             | 50ct                            | 12.5 | 125              | 20                | 3                        | 15                    | 6.6                  | 1.65     | 1.73:1                | 3.46:1       | 96.04                 | 91.21  |
| F-28075                                                                          | G-29075               | 150ct             | 100ct                           | 25   | 125              | 20                | 3                        | 15                    | 14.5                 | 3.63     | 1.22:1                | 2.45:1       | 96.04                 | 91.21  |
| F-28080                                                                          | G-29080               | 150ct             | 150ct                           | 37.5 | 125              | 20                | 3                        | 15                    | 18.3                 | 4.58     | 1:1                   | 2:1          | 96.04                 | 91.21  |
| F-28085                                                                          | G-29085               | 150ct             | 600ct                           | 150  | 125              | 20                | 3                        | 15                    | 72                   | 18       | 1:2                   | 1:1          | 96.04                 | 91.21  |
| F-28090                                                                          | G-29090               | 200ct             | 200ct                           | 50   | 125              | 20                | 2.5                      | 22                    | 26.8                 | 6.7      | 1:1                   | 2:1          | 96.04                 | 91.21  |
| F-28095                                                                          | G-29095               | 300ct             | 12ct                            | 3    | 125              | 20                | 2                        | 33                    | 1.56                 | .39      | 5:1                   | 10:1         | 96.04                 | 91.21  |
| F-28100                                                                          | G-29100               | 300ct             | 50ct                            | 12.5 | 125              | 20                | 2                        | 33                    | 6.6                  | 1.65     | 2.45:1                | 4.9:1        | 96.04                 | 91.21  |
| F-28105                                                                          | G-29105               | 300ct             | 150ct                           | 37.5 | 125              | 20                | 2                        | 33                    | 18.3                 | 4.58     | 1.41:1                | 2.83:1       | 96.04                 | 91.21  |
| F-28110                                                                          | G-29110               | 300ct             | 300ct                           | 75   | 125              | 20                | 2                        | 33                    | 40.3                 | 10.08    | 1:1                   | 2:1          | 96.04                 | 91.21  |
| F-28115                                                                          | G-29115               | 300ct             | 600ct                           | 150  | 125              | 20                | 2                        | 33                    | 72                   | 18       | 1:1.41                | 1.41:1       | 103.02                | 83.09  |
| F-28120                                                                          | G-29120               | 320ct             | 12.8ct                          | 3.2  | 125              | 20                | 2                        | 34                    | 1.6                  | 0.4      | 5:1                   | 10:1         | 103.02                | 97.80  |
| F-28125                                                                          | G-29125               | 400ct             | 40ct                            | 10   | 125              | 20                | 1.8                      | 49                    | 4.7                  | 1.18     | 3.16:1                | 6.32:1       | 103.02                | 97.80  |
| F-28130                                                                          | G-29130               | 400ct             | 120ct                           | 30   | 125              | 20                | 1.8                      | 49                    | 16.3                 | 4.08     | 1.83:1                | 3.65:1       | 103.02                | 97.80  |
| F-28135                                                                          | G-29135               | 400ct             | 200ct                           | 50   | 125              | 20                | 1.8                      | 49                    | 27.3                 | 6.83     | 1.41:1                | 2.83:1       | 103.02                | 97.80  |
| F-28140                                                                          | G-29140               | 400ct             | 400ct                           | 100  | 125              | 20                | 1.8                      | 49                    | 49                   | 12.25    | 1:1                   | 2:1          | 93.61                 | 89.12  |
| F-28145                                                                          | G-29145               | 400ct             | 1000ct                          | 250  | 125              | 20                | 1.8                      | 49                    | 120                  | 30       | 1:1.58                | 1.26:1       | 103.02                | 97.80  |

|         |         |        |        |      |     |    |      |     |      |      |        |         |        |        |
|---------|---------|--------|--------|------|-----|----|------|-----|------|------|--------|---------|--------|--------|
| F-28150 | G-29150 | 400ct  | 2000ct | 500  | 125 | 20 | 1.8  | 49  | 270  | 67.5 | 1:2.24 | 1:1.12  | 103.02 | 97.80  |
| F-28155 | G-29155 | 400ct  | 4000ct | 1000 | 125 | 20 | 1.8  | 49  | 476  | 119  | 1:3.16 | 1:1.58  | 103.02 | 97.80  |
| F-28160 | G-29160 | 500ct  | 12.8ct | 3.2  | 125 | 20 | 1.6  | 54  | 1.6  | 0.4  | 6.25:1 | 12.5:1  | 93.61  | 89.12  |
| F-28165 | G-29165 | 500ct  | 16ct   | 4    | 125 | 20 | 1.6  | 54  | 2.3  | 0.58 | 5.6:1  | 11.2:1  | 93.61  | 89.12  |
| F-28170 | G-29170 | 500ct  | 50ct   | 12.5 | 125 | 20 | 1.6  | 54  | 6.6  | 1.65 | 3.16:1 | 6.32:1  | 93.61  | 89.12  |
| F-28175 | G-29175 | 500ct  | 150ct  | 37.5 | 125 | 20 | 1.6  | 54  | 18.3 | 4.58 | 1.83:1 | 3.65:1  | 93.61  | 89.12  |
| F-28180 | G-29180 | 500ct  | 500ct  | 125  | 125 | 20 | 1.6  | 54  | 65   | 16.3 | 1:1    | 2:1     | 103.02 | 97.80  |
| F-28185 | G-29185 | *500ct | 500ct  | -    | 125 | 20 | 1.6  | 54  | 65   | -    | 1:1    | -       | 103.02 | 97.80  |
| F-28190 | G-29190 | 500ct  | 600ct  | 150  | 125 | 20 | 1.6  | 54  | 72   | 18   | 1:1.1  | 1.83:1  | 103.02 | 97.80  |
| F-28195 | G-29195 | 600ct  | 12.8ct | 3.2  | 125 | 20 | 1.5  | 59  | 1.6  | 0.4  | 6.85:1 | 13.7:1  | 103.02 | 97.80  |
| F-28200 | G-29200 | 600ct  | 30ct   | 7.5  | 125 | 20 | 1.5  | 59  | 4.1  | 1.03 | 4.47:1 | 8.94:1  | 93.61  | 89.12  |
| F-28205 | G-29205 | 600ct  | 48ct   | 12   | 125 | 20 | 1.5  | 59  | 5.2  | 1.3  | 3.54:1 | 7.07:1  | 93.61  | 89.12  |
| F-28210 | G-29210 | 600ct  | 200ct  | 50   | 125 | 20 | 1.5  | 59  | 26.5 | 6.63 | 1.73:1 | 3.46:1  | 93.61  | 89.12  |
| F-28215 | G-29215 | 600ct  | 600ct  | 150  | 125 | 20 | 1.5  | 59  | 72   | 18   | 1:1    | 2:1     | 93.61  | 89.12  |
| F-28220 | G-29220 | *600ct | 600ct  | -    | 125 | 20 | 1.5  | 59  | 72   | -    | 1:1    | -       | 103.02 | 97.80  |
| F-28225 | G-29225 | 600ct  | 1200ct | 300  | 125 | 20 | 1.5  | 59  | 160  | 40   | 1:1.41 | 1.41:1  | 93.61  | 89.12  |
| F-28230 | G-29230 | 640ct  | 12.8ct | 3.2  | 125 | 20 | 1.5  | 62  | 1.6  | 0.4  | 7.07:1 | 14.14:1 | 93.61  | 89.12  |
| F-28235 | G-29235 | 700ct  | 100ct  | 25   | 125 | 20 | 1.35 | 65  | 12   | 3    | 2.65:1 | 5.29:1  | 93.61  | 89.12  |
| F-28240 | G-29240 | 800ct  | 12.8ct | 3.2  | 125 | 20 | 1.3  | 88  | 16   | 4    | 7.9:1  | 15.8:1  | 103.02 | 97.80  |
| F-28245 | G-29245 | 800ct  | 48ct   | 12   | 125 | 20 | 1.3  | 88  | 6.7  | 1.68 | 4.08:1 | 8.16:1  | 96.04  | 89.12  |
| F-28250 | G-29250 | 800ct  | 800ct  | 200  | 125 | 20 | 1.3  | 88  | 106  | 26.5 | 1:1    | 2:1     | 96.04  | 89.12  |
| F-28255 | G-29255 | 900ct  | 600ct  | 150  | 125 | 20 | 1.2  | 93  | 74   | 18.5 | 1.22:1 | 2.45:1  | 96.04  | 89.12  |
| F-28260 | G-29260 | 1000ct | 12ct   | 3    | 125 | 20 | 1.2  | 120 | 1.55 | 0.39 | 9.13:1 | 18.3:1  | 105.75 | 100.37 |
| F-28265 | G-29265 | 1000ct | 50ct   | 12.5 | 125 | 20 | 1.2  | 120 | 6.6  | 1.65 | 4.47:1 | 8.94:1  | 105.75 | 100.37 |
| F-28270 | G-29270 | 1000ct | 1000ct | 250  | 125 | 20 | 1.2  | 120 | 120  | 30   | 1:1    | 2:1     | 96.04  | 89.12  |

| Ultra Miniature Transformers:<br>F Series Thru Hole and G Series Insulated Leads |                       |                   |                                 |     |                  |                   |                          |                       |                      |          |                       |              |                       |        |
|----------------------------------------------------------------------------------|-----------------------|-------------------|---------------------------------|-----|------------------|-------------------|--------------------------|-----------------------|----------------------|----------|-----------------------|--------------|-----------------------|--------|
| Part Number                                                                      |                       | Prim. Imped. Ohms | Sec. Imped. Ohms Split Windings |     | Power Miliwatts  |                   | Prim. Unbal. DC Curr. ma | Prim. DC Resist. Ohms | Sec. DC Resist. Ohms |          | Turns Ratio Prim/Sec. |              | Prices 1-9*** (US \$) |        |
| F Series Thru Hole                                                               | G Series Insul. Leads |                   | SER                             | PAR | 1 KHz and higher | 400 Hz and higher |                          |                       | Ser Conn             | Par Conn | Sec Ser Conn          | Sec Par Conn | F Ser.                | G Ser. |
| F-28275                                                                          | G-29275               | 1060ct            | 12.8ct                          | 3.2 | 125              | 20                | 1.2                      | 125                   | 1.6                  | 0.4      | 9.1:1                 | 18.2:1       | 105.75                | 100.37 |
| F-28280                                                                          | G-29280               | 1200ct            | 12.8ct                          | 3.2 | 125              | 20                | 1                        | 133                   | 1.6                  | 0.4      | 9.68:1                | 19.4:1       | 105.75                | 100.37 |
| F-28285                                                                          | G-29285               | 1200ct            | 500ct                           | 125 | 125              | 20                | 1                        | 133                   | 65                   | 16.25    | 1.55:1                | 3.1:1        | 105.75                | 100.37 |
| F-28290                                                                          | G-29290               | 1200ct            | 1200ct                          | 300 | 125              | 20                | 1                        | 133                   | 160                  | 40       | 1:1                   | 2:1          | 105.75                | 100.37 |
| F-28295                                                                          | G-29295               | *1200ct           | 1200ct                          | -   | 125              | 20                | 1                        | 133                   | 160                  | -        | 1:1                   | -            | 105.75                | 100.37 |

|         |         |           |          |      |     |    |      |      |      |       |        |         |        |        |
|---------|---------|-----------|----------|------|-----|----|------|------|------|-------|--------|---------|--------|--------|
| F-28300 | G-29300 | 1500ct    | 12ct     | 3    | 125 | 20 | 1    | 180  | 1.55 | 0.39  | 11.2:1 | 22.4:1  | 105.75 | 100.37 |
| F-28305 | G-29305 | 1500ct    | 500ct    | 125  | 125 | 20 | 1    | 180  | 65   | 16.31 | 1.73:1 | 3.46:1  | 96.04  | 89.12  |
| F-28310 | G-29310 | *1500ct   | 600ct    | -    | 125 | 20 | 1    | 180  | 73   | -     | 1.58:1 | -       | 96.04  | 89.12  |
| F-28315 | G-29315 | *1500ct   | 1500ct   | -    | 125 | 20 | 1    | 180  | 215  | -     | 1:1    | -       | 105.75 | 100.37 |
| F-28320 | G-29320 | 1600ct    | 12.8ct   | 3.2  | 125 | 20 | 1    | 190  | 1.6  | 0.4   | 11.2:1 | 22.4:1  | 105.75 | 100.37 |
| F-28325 | G-29325 | 2000ct    | 8ct      | 2    | 125 | 20 | 0.8  | 218  | 1    | 0.25  | 15.8:1 | 31.6:1  | 105.75 | 100.37 |
| F-28330 | G-29330 | 2000ct    | 2000ct   | 500  | 125 | 20 | 0.8  | 218  | 260  | 65    | 1:1    | 2:1     | 105.75 | 100.37 |
| F-28335 | G-29335 | *2000ct   | 2000ct   | -    | 125 | 20 | 0.8  | 218  | 260  | -     | 1:1    | -       | 105.75 | 100.37 |
| F-28340 | G-29340 | 2000ct    | 8000ct   | 2000 | 125 | 20 | 0.8  | 218  | 830  | 207.5 | 1:2    | 1:1     | 103.02 | 98.07  |
| F-28345 | G-29345 | 2500ct    | 2500ct   | 625  | 125 | 20 | 0.75 | 280  | 280  | 70    | 1:1    | 2:1     | 103.02 | 98.07  |
| F-28350 | G-29350 | 3000ct    | 3000ct   | 725  | 125 | 20 | 0.65 | 330  | 330  | 82.5  | 1:1    | 2:1     | 103.02 | 98.07  |
| F-28355 | G-29355 | *3000ct   | 3000ct   | -    | 125 | 20 | 0.65 | 330  | 330  | -     | 1:1    | -       | 105.75 | 100.37 |
| F-28360 | G-29360 | 3600ct    | 3600ct   | 900  | 125 | 20 | 0.6  | 370  | 450  | 112.5 | 1:1    | 2:1     | 103.02 | 98.07  |
| F-28365 | G-29365 | 4000ct    | 16ct     | 4    | 125 | 20 | 0.57 | 400  | 2.3  | 0.58  | 15.8:1 | 31.6:1  | 103.02 | 98.07  |
| F-28370 | G-29370 | 4000ct    | 600ct    | 150  | 125 | 20 | 0.57 | 400  | 73   | 18.25 | 2.58:1 | 5.16:1  | 103.02 | 98.07  |
| F-28375 | G-29375 | 4000ct    | 1000ct   | 250  | 125 | 20 | 0.57 | 400  | 120  | 30    | 2:1    | 4:1     | 103.02 | 98.07  |
| F-28380 | G-29380 | *4000ct   | 8000ct   | -    | 125 | 20 | 0.57 | 400  | 1070 | -     | 1:1.41 | -       | 113.35 | 107.66 |
| F-28385 | G-29385 | 5000ct    | 500ct    | 125  | 125 | 20 | 0.5  | 540  | 65   | 16.25 | 3.16:1 | 6.32:1  | 103.02 | 98.07  |
| F-28390 | G-29390 | 5000ct    | 5000ct   | 1250 | 125 | 20 | 0.5  | 540  | 650  | 162.5 | 1:1    | 2:1     | 113.35 | 107.66 |
| F-28395 | G-29395 | 7500ct    | 50ct     | 12.5 | 125 | 20 | 0.5  | 835  | 6.6  | 1.65  | 12.2:1 | 24.5:1  | 113.35 | 107.66 |
| F-28400 | G-29400 | 7500ct    | 100ct    | 25   | 125 | 20 | 0.4  | 835  | 12   | 3     | 8.66:1 | 17.3:1  | 105.44 | 100.37 |
| F-28405 | G-29405 | 7500ct    | 600ct    | 150  | 125 | 20 | 0.4  | 835  | 72   | 18    | 3.54:1 | 7.07:1  | 105.44 | 100.37 |
| F-28410 | G-29410 | 7500ct    | 2500ct   | 625  | 125 | 20 | 0.4  | 835  | 280  | 70    | 1.73:1 | 3.46:1  | 105.44 | 100.37 |
| F-28415 | G-29415 | *7500ct   | 7500ct   | -    | 125 | 20 | 0.4  | 835  | 1020 | -     | 1:1    | -       | 105.44 | 100.37 |
| F-28420 | G-29420 | 8000ct    | 12.8ct   | 3.2  | 125 | 20 | 0.4  | 865  | 1.6  | 0.4   | 25:1   | 50:1    | 113.35 | 107.66 |
| F-28425 | G-29425 | 8000ct    | 1000ct   | 250  | 125 | 20 | 0.4  | 865  | 120  | 30    | 2.83:1 | 5.66:1  | 113.35 | 107.66 |
| F-28430 | G-29430 | *8000ct   | 1200ct   | -    | 125 | 20 | 0.4  | 865  | 160  | -     | 2.58:1 | -       | 113.35 | 107.66 |
| F-28435 | G-29435 | *9000ct   | 9000ct   | -    | 125 | 20 | 0.4  | 1160 | 1160 | -     | 1:1    | -       | 113.35 | 107.66 |
| F-28440 | G-29440 | 10,000ct  | 12.8ct   | 3.2  | 125 | 20 | 0.36 | 1200 | 1.6  | 0.4   | 28:1   | 56:1    | 113.35 | 107.66 |
| F-28445 | G-29445 | 10,000ct  | 16ct     | 4    | 125 | 20 | 0.36 | 1200 | 1.77 | 0.44  | 25:1   | 50:1    | 105.44 | 100.37 |
| F-28450 | G-29450 | 10,000ct  | 100ct    | 25   | 125 | 20 | 0.36 | 1200 | 12   | 3     | 10:1   | 20:1    | 105.44 | 100.37 |
| F-28455 | G-29455 | 10,000ct  | 200ct    | 50   | 125 | 20 | 0.36 | 1200 | 27   | 6.75  | 7.07:1 | 14.14:1 | 105.44 | 100.37 |
| F-28460 | G-29460 | 10,000ct  | 500ct    | 125  | 125 | 20 | 0.36 | 1200 | 65   | 16.25 | 4.47:1 | 8.94:1  | 105.44 | 100.37 |
| F-28465 | G-29465 | 10,000ct  | 600ct    | 150  | 125 | 20 | 0.36 | 1200 | 72   | 18    | 4.08:1 | 8.16:1  | 105.44 | 100.37 |
| F-28470 | G-29470 | 10,000ct  | 1000ct   | 250  | 125 | 20 | 0.36 | 1200 | 120  | 30    | 3.16:1 | 6.32:1  | 105.44 | 100.37 |
| F-28475 | G-29475 | 10,000ct  | 1200ct   | 300  | 125 | 20 | 0.36 | 1200 | 160  | 40    | 2.88:1 | 5.77:1  | 105.44 | 100.37 |
| F-28480 | G-29480 | 10,000ct  | 1500ct   | 375  | 125 | 20 | 0.36 | 1200 | 215  | 53.8  | 2.58:1 | 5.16:1  | 113.34 | 107.66 |
| F-28485 | G-29485 | 10,000ct  | 2000ct   | 500  | 125 | 20 | 0.36 | 1200 | 260  | 65    | 2.24:1 | 4.47:1  | 105.44 | 100.37 |
| F-28490 | G-29490 | 10,000ct  | 5000ct   | 1250 | 125 | 20 | 0.36 | 1200 | 650  | 162.5 | 1.41:1 | 2.83:1  | 105.44 | 100.37 |
| F-28495 | G-29495 | 10,000ct  | 7500ct   | 1875 | 125 | 20 | 0.36 | 1200 | 1020 | 255   | 1.15:1 | 2.3:1   | 105.44 | 100.37 |
| F-28500 | G-29500 | 10,000ct  | 10,000ct | 2500 | 125 | 20 | 0.36 | 1200 | 1200 | 300   | 1:1    | 2:1     | 96.04  | 89.11  |
| F-28505 | G-29505 | *10,000ct | 10,000ct | -    | 125 | 20 | 0.36 | 1200 | 1440 | -     | 1:1    | -       | 113.35 | 107.66 |
| F-28510 | G-29510 | 15,000ct  | 400ct    | 100  | 100 | 15 | 0.35 | 1420 | 43   | 10.75 | 6.12:1 | 12.24:1 | 105.44 | 100.37 |
| F-28515 | G-29515 | 15,000ct  | 500ct    | 125  | 100 | 15 | 0.35 | 1420 | 49   | 12.25 | 5.48:1 | 10.95:1 | 105.44 | 100.37 |

## Ultra Miniature Transformers: F Series Thru Hole and G Series Insulated Leads

| Part Number                                                                                                                 |                       | Prim. Imped. Ohms | Sec. Imped. Ohms Split Windings |      | Power Milliwatts |                   | Prim. Unbal. DC Curr. ma | Prim. DC Resist. Ohms | Sec. DC Resist. Ohms |          | Turns Ratio Prim/Sec. |              | Prices 1-9*** (US \$) |        |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|---------------------------------|------|------------------|-------------------|--------------------------|-----------------------|----------------------|----------|-----------------------|--------------|-----------------------|--------|
| F Series Thru Hole                                                                                                          | G Series Insul. Leads |                   | SER                             | PAR  | 1 KHz and higher | 400 Hz and higher |                          |                       | Ser Conn             | Par Conn | Sec Ser Conn          | Sec Par Conn | F Ser.                | G Ser. |
| F-28520                                                                                                                     | G-29520               | 15,000ct          | 600ct                           | 150  | 100              | 15                | 0.35                     | 1420                  | 68                   | 17       | 5:1                   | 10:1         | 105.44                | 100.37 |
| F-28525                                                                                                                     | G-29525               | 15,000ct          | 10,000ct                        | 2500 | 100              | 15                | 0.35                     | 1420                  | 1100                 | 275      | 1.22:1                | 2.45:1       | 105.44                | 100.37 |
| F-28530                                                                                                                     | G-29530               | *15,000ct         | 15,000ct                        | -    | 100              | 15                | 0.35                     | 1420                  | 1730                 | -        | 1:1                   | -            | 113.35                | 107.66 |
| F-28535                                                                                                                     | G-29535               | 15,000ct          | 15,000ct                        | 3750 | 100              | 15                | 0.35                     | 1420                  | 1730                 | 433      | 1:1                   | 2:1          | 105.44                | 100.37 |
| F-28540                                                                                                                     | G-29540               | 16,000ct          | 1000ct                          | 250  | 100              | 15                | 0.35                     | 1500                  | 115                  | 28.75    | 4:1                   | 8:1          | 105.44                | 100.37 |
| F-28545                                                                                                                     | G-29545               | 20,000ct          | 500ct                           | 125  | 100              | 15                | 0.3                      | 1600                  | 60                   | 15       | 6.33:1                | 12.65:1      | 113.35                | 107.66 |
| F-28550                                                                                                                     | G-29550               | 20,000ct          | 600ct                           | 150  | 100              | 15                | 0.3                      | 1600                  | 66                   | 16.5     | 5.77:1                | 11.55:1      | 113.35                | 107.66 |
| F-28555                                                                                                                     | G-29555               | 20,000ct          | 800ct                           | 200  | 100              | 15                | 0.3                      | 1600                  | 94                   | 23.5     | 5:1                   | 10:1         | 113.35                | 107.66 |
| F-28560                                                                                                                     | G-29560               | 20,000ct          | 1000ct                          | 250  | 100              | 15                | 0.3                      | 1600                  | 106                  | 26.5     | 4.47:1                | 8.94:1       | 113.35                | 107.66 |
| F-28565                                                                                                                     | G-29565               | 20,000ct          | 5000ct                          | 1250 | 100              | 15                | 0.3                      | 1600                  | 600                  | 150      | 2:1                   | 4:1          | 113.35                | 107.66 |
| F-28570                                                                                                                     | G-29570               | 20,000ct          | 10,000ct                        | 2500 | 100              | 15                | 0.3                      | 1600                  | 1100                 | 275      | 1.41:1                | 2.83:1       | 113.35                | 107.66 |
| F-SHIELD: MU-METAL SHIELD .285" d x .268" h (7.24 mm d x 6.73 mm h) SINGLE SHIELD                                           |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              | 11.19                 |        |
| FYY-SHIELD: MU-METAL SHIELD .315" d x .275" h (8.0 mm d x 6.99 mm h) USE WITH F-SHIELD FOR DOUBLE SHIELDING                 |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              | 11.19                 |        |
| G-SHIELD: MU-METAL SHIELD .285" d x .335" h (7.24 mm d x 8.51 mm h) SINGLE SHIELD                                           |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              | 11.19                 |        |
| GYY-SHIELD: MU-METAL SHIELD .315" d x .40" h (8.0 mm d x 10.16 mm h) USE WITH G-SHIELD FOR DOUBLE SHIELDING                 |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              | 11.19                 |        |
| GXX-SHIELD: MU-METAL SHIELD .35" d x .465" h (8.89 mm d x 11.81 mm h) USE WITH G-SHIELD AND GYY SHIELD FOR TRIPLE SHIELDING |                       |                   |                                 |      |                  |                   |                          |                       |                      |          |                       |              | 11.19                 |        |

[Click Here for Surface Mount Version of These Series](#)

\*Includes Electrostatic Shield

\*\*Discount Prices:

• 1-9 Net;

10-24 less 10%;

25-49 less 16%;

50-99 less 23%;

100-499 less 30%

Ordering Instructions:

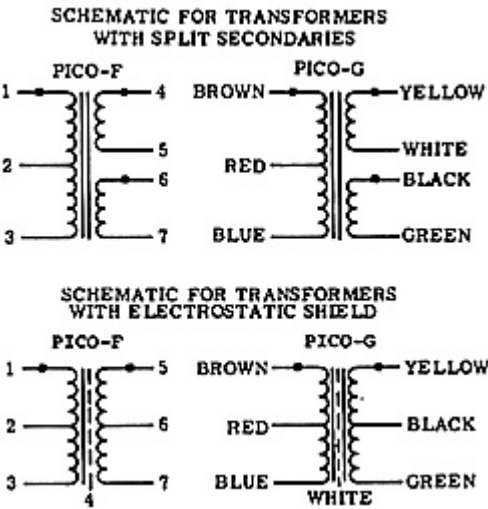
• No minimum.

Net 30 days F.O.B. Pelham, NY

**Delivery--stock to one week for sample orders.**

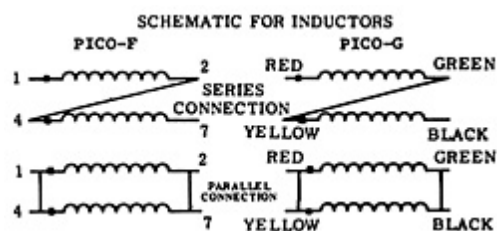
FEATURES

- Extreme resistance to thermal shock
- Ultra miniature size
- PICO is approved QPL Source (Mil-PRF-27)
- 5 Magnetic Shields available
- Electrostatic shielding can be added.
- Special production techniques ensure uniform size and leads which are free of encapsulant. No meniscus in lead area.
- Variation of standard designs available
- Every unit can be made with a 300 thermal cycle guarantee using PICO's special SR construction. Contact factory for details.



| INDUCTORS    |          |                       |                     |                          |                      |          |
|--------------|----------|-----------------------|---------------------|--------------------------|----------------------|----------|
| PART NUMBERS |          | INDUCTANCE<br>HENRIES | DC<br>CURRENT<br>ma | DC<br>RESISTANCE<br>OHMS | PRICE 1-9*** (US \$) |          |
| F-SERIES     | G-SERIES |                       |                     |                          | F-SERIES             | G-SERIES |

|        |        |                                              |                   |             |       |       |
|--------|--------|----------------------------------------------|-------------------|-------------|-------|-------|
| F-5825 | G-6125 | SERIES: 10.0<br>2.75<br>PARALLEL: 2.5<br>.65 | 0<br>2<br>4       | 2250<br>560 | 87.28 | 83.09 |
| F-5830 | G-6130 | SERIES 5.5<br>1.5<br>PARALLEL 1.3<br>.40     | 0<br>2<br>4       | 1000<br>250 | 87.28 | 83.09 |
| F-5835 | G-6135 | SERIES .85<br>.25<br>PARALLEL .21<br>.06     | 1<br>6<br>2<br>12 | 240<br>60   | 87.28 | 83.09 |
| F-5840 | G-6140 | SERIES .60<br>.15<br>PARALLEL .15<br>.04     | 0<br>5<br>10      | 144<br>36   | 87.28 | 83.09 |



**Inductors:** All inductors have split windings and measurements are listed for both series and parallel connections. Two values of inductance, each at a particular value of DC Current, are listed for each inductor.

**Delivery - stock to one week for sample orders.**

For immediate engineering assistance or to place an order:

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