

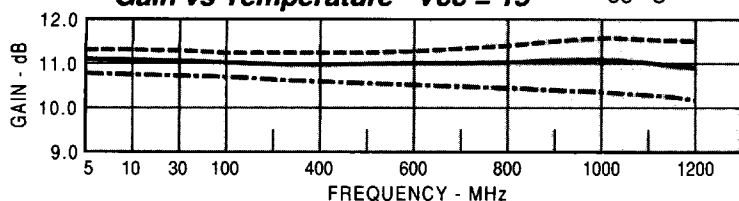


# AC1228

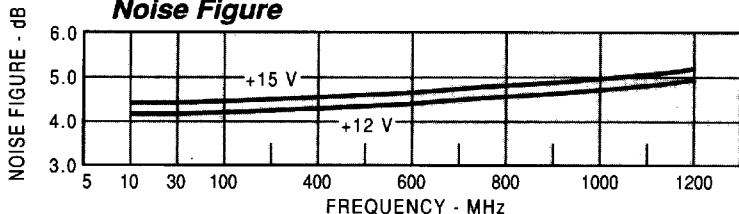
## Typical Performance

KEY: +25 °C —  
+85 °C - - -  
-55 °C ---

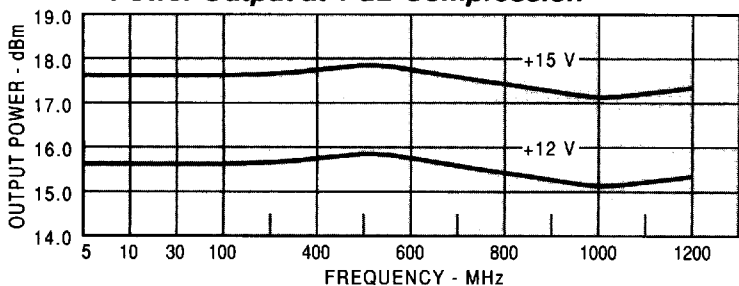
Gain vs Temperature Vcc = 15



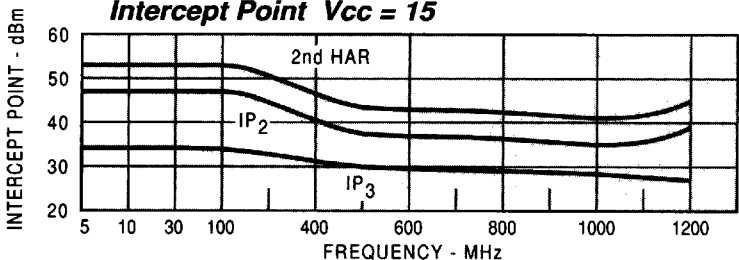
Noise Figure



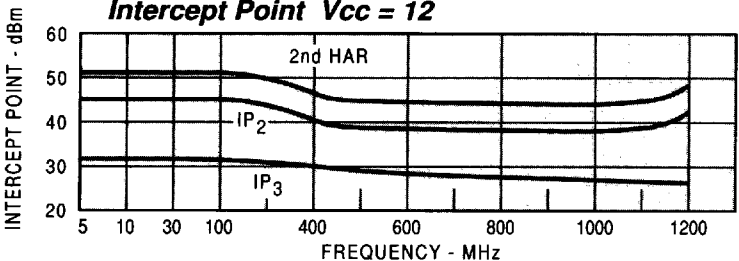
Power Output at 1 dB Compression



Intercept Point Vcc = 15



Intercept Point Vcc = 12



## Typical Automatic Test Data

MODEL:AC1228

Vcc=15V Icc= 55.32 mA

| FREQUENCY<br>MHZ | VSWR<br>IN | VSWR<br>OUT | GAIN<br>DB | GROUP DELAY<br>NSEC | REV/ISO<br>DB |
|------------------|------------|-------------|------------|---------------------|---------------|
| 5.0              | 1.21       | 1.26        | 11.0       |                     | -16.2         |
| 10.0             | 1.11       | 1.16        | 11.0       |                     | -16.2         |
| 20.0             | 1.08       | 1.11        | 11.0       |                     | -16.1         |
| 50.0             | 1.06       | 1.08        | 11.0       | .593                | -16.1         |
| 100.0            | 1.06       | 1.07        | 11.0       | .438                | -16.1         |
| 200.0            | 1.07       | 1.07        | 10.9       | .420                | -16.2         |
| 300.0            | 1.12       | 1.04        | 10.9       | .409                | -16.1         |
| 400.0            | 1.15       | 1.04        | 11.0       | .406                | -16.1         |
| 500.0            | 1.15       | 1.06        | 11.0       | .410                | -16.0         |
| 600.0            | 1.16       | 1.11        | 11.0       | .431                | -16.0         |
| 700.0            | 1.18       | 1.18        | 11.0       | .427                | -15.8         |
| 800.0            | 1.18       | 1.25        | 11.0       | .427                | -15.8         |
| 900.0            | 1.17       | 1.33        | 11.1       | .448                | -15.6         |
| 1000.0           | 1.14       | 1.40        | 11.1       | .452                | -15.4         |
| 1100.0           | 1.11       | 1.47        | 11.2       | .460                | -15.3         |
| 1200.0           | 1.14       | 1.54        | 11.1       | .509                | -15.0         |
| 1300.0           | 1.25       | 1.54        | 11.1       | .526                | -14.8         |

### LINEAR S-PARAMETERS

MODEL:AC1228

Vcc=15V Icc= 55.32 mA

| FREQ. | S11 |        | S21  |        | S12  |      | S22 |        |
|-------|-----|--------|------|--------|------|------|-----|--------|
| MHZ   | MAG | ANG    | MAG  | ANG    | MAG  | ANG  | MAG | ANG    |
| 5     | .09 | -93.6  | 3.54 | -170.7 | .155 | 11   | .12 | 128.6  |
| 10    | .05 | -103.3 | 3.53 | -176.1 | .155 | 5    | .07 | 136.1  |
| 20    | .04 | -111.1 | 3.53 | 179.8  | .157 | 2    | .05 | 143.9  |
| 50    | .03 | -145.7 | 3.55 | 173.5  | .157 | -3   | .04 | 158.1  |
| 100   | .03 | -135.2 | 3.55 | 165.6  | .157 | -7   | .04 | 166.1  |
| 200   | .03 | -129.4 | 3.53 | 150.5  | .156 | -15  | .03 | 167.6  |
| 300   | .06 | -127.0 | 3.52 | 135.6  | .156 | -22  | .02 | 175.9  |
| 400   | .07 | -127.1 | 3.54 | 121.0  | .157 | -30  | .02 | -141.1 |
| 500   | .07 | -136.2 | 3.54 | 106.4  | .158 | -38  | .03 | -118.8 |
| 600   | .07 | -140.2 | 3.54 | 90.7   | .159 | -45  | .05 | -124.2 |
| 700   | .08 | -145.6 | 3.57 | 75.4   | .161 | -54  | .08 | -134.4 |
| 800   | .08 | -157.2 | 3.56 | 60.0   | .163 | -62  | .11 | -146.3 |
| 900   | .08 | -175.8 | 3.59 | 44.0   | .166 | -71  | .14 | -160.6 |
| 1000  | .07 | 157.3  | 3.60 | 27.8   | .169 | -80  | .17 | -177.1 |
| 1100  | .05 | 124.9  | 3.61 | 11.2   | .172 | -90  | .19 | 165.9  |
| 1200  | .07 | 62.7   | 3.60 | -7.2   | .177 | -100 | .21 | 148.0  |
| 1300  | .11 | 17.1   | 3.58 | -26.2  | .182 | -112 | .21 | 126.9  |
| 1400  | .21 | -18.4  | 3.48 | -46.3  | .185 | -124 | .20 | 99.3   |

MODEL:AC1228

Vcc=12V Icc= 43.74 mA

| FREQUENCY<br>MHZ | VSWR<br>IN | VSWR<br>OUT | GAIN<br>DB | GROUP DELAY<br>NSEC | REV/ISO<br>DB |
|------------------|------------|-------------|------------|---------------------|---------------|
| 5.0              | 1.20       | 1.25        | 10.9       |                     | -16.2         |
| 10.0             | 1.10       | 1.15        | 10.9       |                     | -16.1         |
| 20.0             | 1.07       | 1.10        | 10.9       |                     | -16.1         |
| 50.0             | 1.05       | 1.07        | 11.0       | .596                | -16.0         |
| 100.0            | 1.07       | 1.06        | 10.9       | .442                | -16.1         |
| 200.0            | 1.08       | 1.06        | 10.9       | .422                | -16.1         |
| 300.0            | 1.13       | 1.06        | 10.8       | .413                | -16.1         |
| 400.0            | 1.16       | 1.07        | 10.9       | .411                | -16.0         |
| 500.0            | 1.17       | 1.10        | 10.9       | .414                | -15.9         |
| 600.0            | 1.19       | 1.16        | 10.9       | .434                | -15.8         |
| 700.0            | 1.20       | 1.23        | 11.0       | .432                | -15.7         |
| 800.0            | 1.20       | 1.31        | 11.0       | .428                | -15.5         |
| 900.0            | 1.19       | 1.39        | 11.0       | .447                | -15.3         |
| 1000.0           | 1.15       | 1.47        | 11.0       | .456                | -15.1         |
| 1100.0           | 1.13       | 1.56        | 11.1       | .468                | -14.9         |
| 1200.0           | 1.20       | 1.64        | 11.0       | .517                | -14.6         |
| 1300.0           | 1.32       | 1.67        | 11.0       | .533                | -14.3         |



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