

# Low Noise Amplifier

# ZX60-05113LN+

## Typical Performance Data

| FREQUENCY<br>(MHz) | GAIN<br>(dB)<br>5V | DIRECTIVITY<br>(dB)<br>5V | VSWR (:1) |           | NOISE FIGURE<br>(dB)<br>5V | POUT @ 1 dB<br>COMPRESSION<br>(dBm)<br>5V | POUT @ 3 dB<br>COMPRESSION<br>(dBm)<br>5V | OUTPUT IP3<br>(dBm)<br>5V |
|--------------------|--------------------|---------------------------|-----------|-----------|----------------------------|---|---|---------------------------|
|                    |                    |                           | IN<br>5V  | OUT<br>5V |                            |   |   |                           |
| 4000               | 19.89              | 31.43                     | 3.24      | 3.71      | 2.98                       | 5.43                                      | 8.02                                      | 15.14                     |
| 4200               | 20.51              | 28.96                     | 3.32      | 3.10      | 2.89                       | 6.54                                      | 8.92                                      | 16.72                     |
| 4400               | 21.02              | 26.88                     | 3.32      | 2.62      | 2.74                       | 7.48                                      | 9.58                                      | 17.98                     |
| 4600               | 21.44              | 25.15                     | 3.26      | 2.25      | 2.61                       | 8.52                                      | 10.27                                     | 19.97                     |
| 4800               | 21.76              | 23.69                     | 3.17      | 1.96      | 2.58                       | 9.18                                      | 10.81                                     | 21.02                     |
| 5000               | 21.99              | 22.45                     | 3.07      | 1.76      | 2.49                       | 10.19                                     | 11.40                                     | 22.91                     |
| 5200               | 22.16              | 21.45                     | 2.97      | 1.62      | 2.46                       | 10.60                                     | 11.87                                     | 23.64                     |
| 5400               | 22.26              | 20.60                     | 2.87      | 1.54      | 2.39                       | 10.65                                     | 12.19                                     | 23.70                     |
| 5600               | 22.31              | 19.90                     | 2.75      | 1.50      | 2.37                       | 11.14                                     | 12.67                                     | 24.64                     |
| 5800               | 22.33              | 19.31                     | 2.64      | 1.47      | 2.30                       | 11.53                                     | 12.94                                     | 25.30                     |
| 6000               | 22.32              | 18.79                     | 2.53      | 1.45      | 2.27                       | 11.71                                     | 13.16                                     | 25.30                     |
| 6200               | 22.29              | 18.35                     | 2.40      | 1.43      | 2.21                       | 11.72                                     | 13.18                                     | 25.26                     |
| 6400               | 22.23              | 17.94                     | 2.27      | 1.39      | 2.16                       | 11.45                                     | 13.21                                     | 24.73                     |
| 6600               | 22.15              | 17.60                     | 2.13      | 1.35      | 2.11                       | 11.39                                     | 13.22                                     | 24.84                     |
| 6800               | 22.06              | 17.31                     | 1.99      | 1.30      | 2.06                       | 11.80                                     | 13.44                                     | 25.07                     |
| 7000               | 21.97              | 17.06                     | 1.87      | 1.24      | 2.05                       | 11.77                                     | 13.39                                     | 25.14                     |
| 7200               | 21.86              | 16.86                     | 1.75      | 1.19      | 1.94                       | 11.76                                     | 13.43                                     | 25.07                     |
| 7400               | 21.74              | 16.70                     | 1.65      | 1.13      | 1.93                       | 11.65                                     | 13.46                                     | 24.67                     |
| 7600               | 21.62              | 16.60                     | 1.56      | 1.09      | 1.86                       | 11.91                                     | 13.62                                     | 25.11                     |
| 7800               | 21.49              | 16.51                     | 1.48      | 1.06      | 1.83                       | 12.08                                     | 13.72                                     | 25.11                     |
| 8000               | 21.35              | 16.44                     | 1.42      | 1.07      | 1.76                       | 11.74                                     | 13.58                                     | 24.37                     |
| 8200               | 21.22              | 16.41                     | 1.36      | 1.10      | 1.75                       | 11.95                                     | 13.72                                     | 24.49                     |
| 8400               | 21.08              | 16.37                     | 1.31      | 1.13      | 1.71                       | 11.91                                     | 13.71                                     | 24.36                     |
| 8600               | 20.95              | 16.36                     | 1.28      | 1.16      | 1.71                       | 12.36                                     | 13.88                                     | 24.73                     |
| 8800               | 20.82              | 16.36                     | 1.27      | 1.19      | 1.66                       | 12.49                                     | 13.91                                     | 24.79                     |
| 9000               | 20.68              | 16.38                     | 1.28      | 1.22      | 1.64                       | 12.55                                     | 13.89                                     | 24.81                     |
| 9200               | 20.53              | 16.43                     | 1.32      | 1.25      | 1.65                       | 12.44                                     | 13.73                                     | 24.39                     |
| 9400               | 20.34              | 16.54                     | 1.40      | 1.30      | 1.65                       | 12.52                                     | 13.64                                     | 24.67                     |
| 9600               | 20.13              | 16.70                     | 1.52      | 1.36      | 1.65                       | 12.43                                     | 13.46                                     | 24.84                     |
| 9800               | 19.88              | 16.94                     | 1.67      | 1.45      | 1.68                       | 12.16                                     | 13.20                                     | 24.54                     |
| 10000              | 19.58              | 17.27                     | 1.86      | 1.55      | 1.70                       | 12.13                                     | 13.08                                     | 24.80                     |
| 10200              | 19.26              | 17.66                     | 2.09      | 1.68      | 1.78                       | 12.32                                     | 13.16                                     | 24.72                     |
| 10400              | 18.89              | 18.13                     | 2.34      | 1.82      | 1.82                       | 12.30                                     | 13.12                                     | 24.81                     |
| 10600              | 18.51              | 18.64                     | 2.63      | 1.97      | 1.88                       | 12.18                                     | 13.03                                     | 24.93                     |
| 10800              | 18.11              | 19.18                     | 2.91      | 2.13      | 1.89                       | 12.42                                     | 13.25                                     | 24.84                     |
| 11000              | 17.72              | 19.71                     | 3.20      | 2.27      | 1.94                       | 12.24                                     | 13.13                                     | 24.95                     |
| 11200              | 17.34              | 20.25                     | 3.48      | 2.41      | 1.98                       | 12.43                                     | 13.31                                     | 25.01                     |
| 11400              | 16.99              | 20.76                     | 3.73      | 2.53      | 2.05                       | 12.40                                     | 13.31                                     | 24.90                     |
| 11600              | 16.68              | 21.25                     | 3.95      | 2.62      | 2.07                       | 12.42                                     | 13.28                                     | 24.62                     |
| 11800              | 16.40              | 21.72                     | 4.11      | 2.68      | 2.08                       | 12.56                                     | 13.47                                     | 24.95                     |
| 12000              | 16.13              | 22.14                     | 4.25      | 2.72      | 2.15                       | 12.51                                     | 13.41                                     | 25.04                     |
| 12200              | 15.86              | 22.52                     | 4.32      | 2.72      | 2.18                       | 12.40                                     | 13.25                                     | 24.63                     |
| 12400              | 15.59              | 22.87                     | 4.39      | 2.70      | 2.22                       | 12.40                                     | 13.20                                     | 24.39                     |
| 12600              | 15.26              | 23.31                     | 4.49      | 2.68      | 2.29                       | 12.58                                     | 13.34                                     | 24.48                     |
| 12800              | 14.87              | 23.91                     | 4.65      | 2.66      | 2.32                       | 12.48                                     | 13.20                                     | 24.39                     |
| 13000              | 14.36              | 24.78                     | 4.88      | 2.65      | 2.45                       | 12.44                                     | 13.18                                     | 24.62                     |