

Coaxial Amplifier

ZX60-04183LN+

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5V, Id = 46mA @ Temperature = +25°C

| FREQUENCY (GHz) | GAIN (dB) | DIRECTIVITY (dB) | RETURN LOSS (dB) | | STABILITY | | Pout @ 1 dB COMPRESSION (dBm) | NOISE FIGURE (dB) | OIP3 (dBm) |
|--------------------|--------------|---------------------|------------------|------|-----------|---------|-------------------------------------|----------------------|---------------|
| | | | IN | OUT | K | Measure | | | |
| 4.0 | 13.1 | 10.0 | 8.1 | 10.8 | 1.4 | 1.0 | 15.7 | 2.7 | 29.2 |
| 4.5 | 13.4 | 9.4 | 8.7 | 16.3 | 1.4 | 1.0 | 15.9 | 2.7 | 28.4 |
| 5.0 | 13.3 | 9.4 | 8.2 | 18.5 | 1.4 | 1.0 | 15.9 | 2.7 | 27.6 |
| 5.5 | 13.1 | 9.6 | 7.4 | 14.6 | 1.4 | 1.0 | 15.5 | 2.7 | 26.7 |
| 6.0 | 12.9 | 9.9 | 6.8 | 11.9 | 1.4 | 1.0 | 15.1 | 2.7 | 26.3 |
| 6.5 | 12.7 | 10.1 | 6.5 | 10.7 | 1.4 | 0.9 | 14.6 | 2.6 | 25.4 |
| 7.0 | 12.6 | 10.1 | 6.7 | 10.5 | 1.4 | 0.9 | 14.2 | 2.6 | 25.4 |
| 7.5 | 12.7 | 9.9 | 7.2 | 11.0 | 1.4 | 0.9 | 14.5 | 2.5 | 25.5 |
| 8.0 | 12.8 | 9.6 | 8.1 | 12.5 | 1.5 | 0.9 | 14.6 | 2.4 | 25.9 |
| 8.5 | 12.9 | 9.2 | 9.5 | 14.4 | 1.5 | 0.9 | 14.9 | 2.4 | 26.0 |
| 9.0 | 12.9 | 9.0 | 11.2 | 16.9 | 1.5 | 0.9 | 15.2 | 2.3 | 26.4 |
| 9.5 | 12.8 | 9.0 | 13.0 | 17.3 | 1.5 | 0.9 | 15.3 | 2.3 | 26.2 |
| 10.0 | 12.5 | 9.3 | 14.3 | 16.4 | 1.6 | 0.9 | 15.3 | 2.3 | 25.8 |
| 10.5 | 12.0 | 10.0 | 14.6 | 14.5 | 1.6 | 0.9 | 14.8 | 2.3 | 25.5 |
| 11.0 | 11.6 | 10.8 | 14.1 | 13.3 | 1.7 | 0.9 | 14.6 | 2.3 | 25.2 |
| 11.5 | 11.2 | 11.4 | 13.5 | 12.6 | 1.8 | 0.9 | 14.5 | 2.4 | 25.0 |
| 12.0 | 11.0 | 11.5 | 13.1 | 12.7 | 1.8 | 0.9 | 14.7 | 2.4 | 25.3 |
| 12.5 | 11.3 | 10.7 | 13.0 | 13.9 | 1.7 | 0.9 | 15.0 | 2.4 | 25.9 |
| 13.0 | 11.5 | 10.2 | 12.3 | 13.6 | 1.6 | 0.9 | 15.2 | 2.3 | 25.9 |
| 13.5 | 11.5 | 10.0 | 11.5 | 12.6 | 1.6 | 0.9 | 15.3 | 2.3 | 26.4 |
| 14.0 | 11.5 | 9.9 | 10.9 | 11.9 | 1.6 | 0.9 | 15.3 | 2.4 | 26.0 |
| 14.5 | 11.4 | 9.8 | 10.8 | 11.6 | 1.5 | 0.9 | 15.4 | 2.4 | 25.7 |
| 15.0 | 11.4 | 9.6 | 11.1 | 11.8 | 1.5 | 0.9 | 15.5 | 2.4 | 26.5 |
| 15.5 | 11.4 | 9.4 | 12.0 | 12.7 | 1.5 | 0.9 | 15.6 | 2.4 | 27.0 |
| 16.0 | 11.4 | 9.2 | 13.8 | 14.6 | 1.5 | 0.9 | 15.6 | 2.4 | 26.8 |
| 16.5 | 11.4 | 8.9 | 17.7 | 17.8 | 1.5 | 0.9 | 15.6 | 2.4 | 27.1 |
| 17.0 | 11.4 | 8.8 | 27.7 | 20.7 | 1.5 | 0.9 | 15.6 | 2.5 | 27.5 |
| 17.5 | 11.3 | 8.9 | 22.6 | 17.4 | 1.6 | 0.9 | 15.6 | 2.5 | 26.7 |
| 18.0 | 11.0 | 9.2 | 15.5 | 14.0 | 1.6 | 0.8 | 14.8 | 2.6 | 27.1 |
| 18.5 | 10.6 | 9.6 | 12.4 | 12.0 | 1.6 | 0.8 | 14.4 | 2.8 | 32.8 |
| 19.0 | 10.3 | 10.0 | 11.0 | 11.8 | 1.5 | 0.9 | 14.0 | 3.1 | 33.7 |
| 19.5 | 10.0 | 10.3 | 10.3 | 12.9 | 1.5 | 1.0 | 13.5 | 3.4 | 29.0 |
| 20.0 | 9.6 | 10.7 | 9.3 | 13.9 | 1.5 | 1.0 | 13.0 | 3.8 | 26.7 |



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