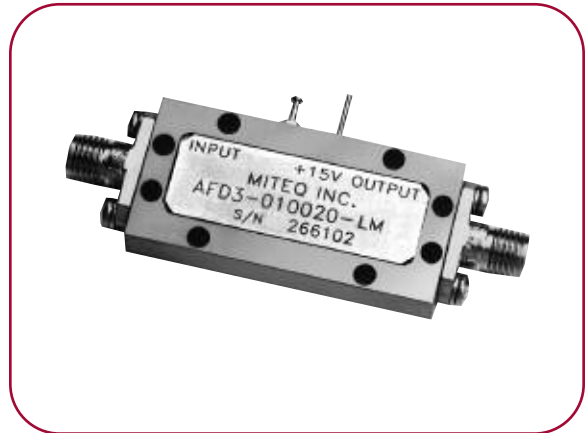


LIMITING AMPLIFIERS

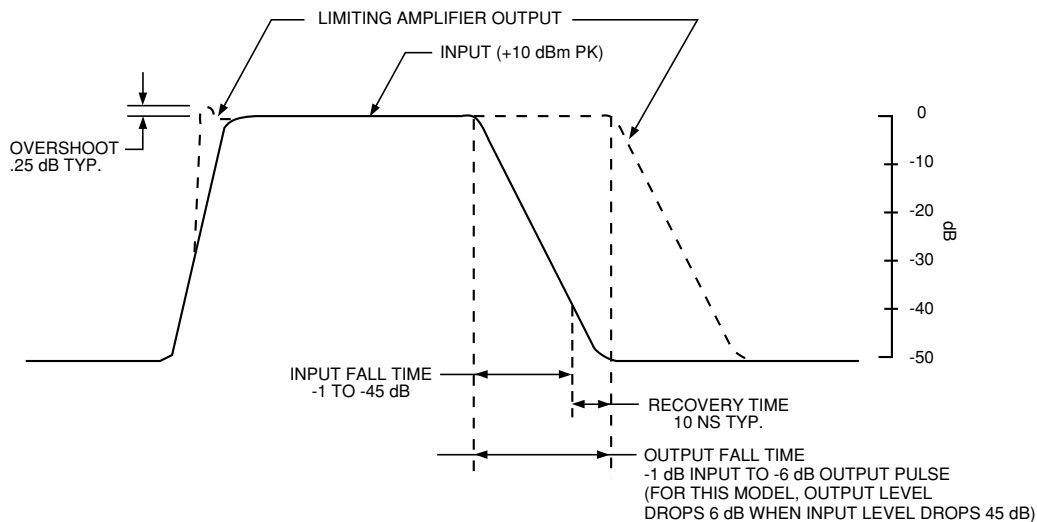
AFD SERIES

Octave and multioctave limiting amplifiers are widely used in instantaneous frequency measurement receivers. Three of the most important performance requirements of limiting amplifiers are:

- To minimize output power variations and provide a constant output over a wide input dynamic range.
- To minimize the harmonic output power under limiting conditions.
- High fidelity to pulsed input signals by minimizing overshoot and recovery times.



DEFINITION OF LIMITING AMPLIFIER PULSE RESPONSE



| MODEL NUMBER | FREQUENCY RANGE (GHz) | GAIN (dB, Min.) | GAIN FLATNESS (±dB, Max.) | NOISE FIGURE (dB, Max.) | POWER RANGE (dBm) | | NOM. DC POWER (15V, mA) |
|----------------|-----------------------|-----------------|---------------------------|-------------------------|-------------------|---------|-------------------------|
| | | | | | INPUT | OUTPUT | |
| AFD3-005010-LM | 0.5-1 | 35 | 1 | 1.5 | -15 - +10 | 15 - 20 | 100 |
| AFD3-010020-LM | 1-2 | 35 | 1 | 1.5 | -15 - +10 | 15 - 20 | 100 |
| AFD4-020040-LM | 2-4 | 35 | 2 | 3.5 | -15 - +10 | 15 - 20 | 200 |
| AFD4-020060-LM | 2-6 | 35 | 2 | 4.5 | -15 - +10 | 15 - 20 | 200 |
| AFD4-020080-LM | 2-8 | 35 | 2 | 5 | -15 - +10 | 15 - 20 | 200 |
| AFD4-040080-LM | 4-8 | 35 | 2 | 4.5 | -15 - +10 | 15 - 20 | 200 |
| AFD5-080120-LM | 8-12 | 33 | 2 | 6 | -15 - +10 | 15 - 20 | 250 |
| AFD8-080180-LM | 8-18 | 33 | 2 | 8 | -15 - +10 | 15 - 20 | 450 |
| AFD8-120180-LM | 12-18 | 33 | 2 | 8 | -15 - +10 | 15 - 20 | 450 |

NOTES: Please contact factory for outline.
See page 60 for typical outline.
Harmonic output -10 dBc max., typical.
Input/output VSWR 2:1 typical.
Higher gain options available.



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