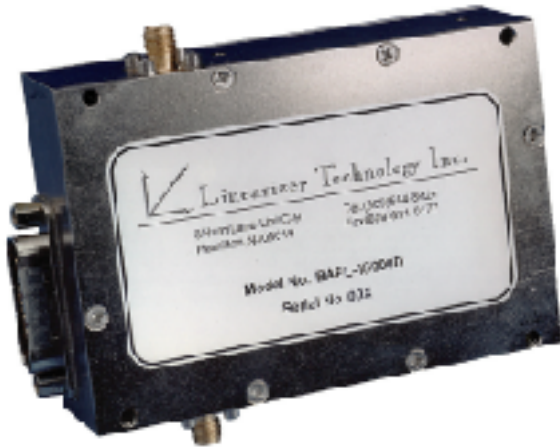


Predistortion Linearizers Can Give TWTAs an Effective 4X Power Increase with Multicarrier Traffic.

LINEARIZER

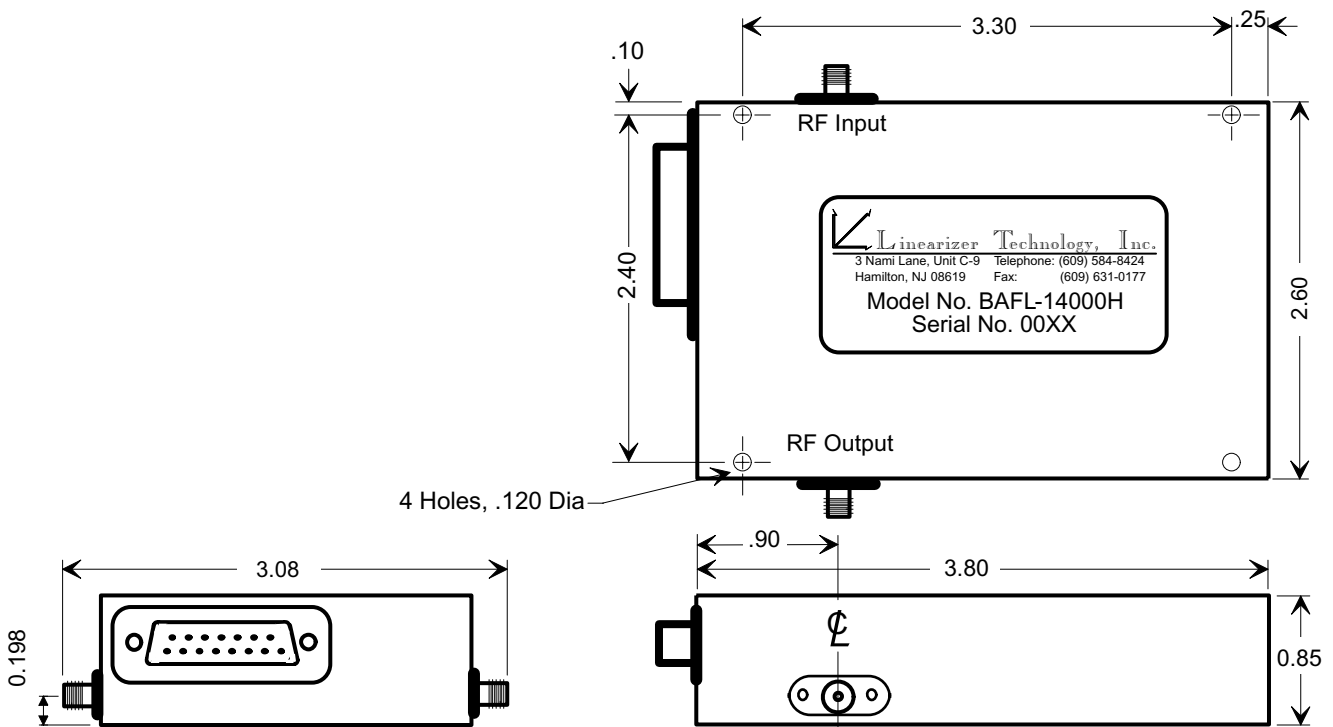
Ku + K Band

BAFL-14000H/18000D



- Wide Dynamic Range for Digital, Analog, & Mixed Signals
- For TWTAs & Klystrons
- Easy to Align
- Full Uplink Bandwidths
- Analog or Digital Control
- Compact Design

BAFL - 14000 OUTLINE SPECIFICATIONS



BAFL - 14000H/18000D PERFORMANCE SUMMARY

1. Option/Frequency Range								□ □ □ □ □ □ □ □	14001	13,750 to 14,500 MHz
□ □ □ □ □ □ □ □								14002	14,700 to 15,350 MHz	
□ □ □ □ □ □ □ □								14003	14,000 to 14,500 MHz	
□ □ □ □ □ □ □ □								14004	12,750 to 13,250 MHz	
□ □ □ □ □ □ □ □								14005	12,750 to 14,500 MHz	
□ □ □ □ □ □ □ □								18001	17,300 to 18,400 MHz	
□ □ □ □ □ □ □ □								18002	17,300 to 18,100 MHz	
2. Power Level In for TWTA Rated Power										
□ □ □ □ □ □ □ □								HAL and HAM Adj. from -15 dBm to >-5 dBm		
□ □ □ □ □ □ □ □								HGM and HGH Adj. from 5 dBm to 15 dBm		
□ □ □ □ □ □ □ □								HNL and HNM -15 dBm ± 2 dBm		
□ □ □ □ □ □ □ □								HZM and HZH +7dBm ± 2 dBm		
3. Power Level Out for TWTA Rated Power										
□ □ □ □ □ □ □ □								H_H Adj. from +7 dBm to +17 dBm		
□ □ □ □ □ □ □ □								H_M Adj. from +2 dBm to +12 dBm		
□ □ □ □ □ □ □ □								H_L Adj. from -10 dBm to 0 dBm		
4. Output Backoff (From Single Carrier Rated Power)								□ □	Intermodulation (C/I) Ratio (with TWTA)	
□ □ 3 dB □ □ □ □ □ □ □ □								□	> 25 dB	
□ □ ≥ 4 dB □ □ □ □ □ □ □ □								□	> 30 dB	
5. Gain Flatness								□ □ □ □ □ □ □ □	< ± 0.5 dB Over Any 500 MHz	
6. Gain Slope								□ □ □ □ □ □ □ □	< 0.02 dB/MHz	
7. Gain Stability Over Temperature								□ □ □ □ □ □ □ □	< ± 1 dB, -10 to +50° C (optional < ± 0.5 dB)	
8. Static Phase Shift								□ □ □ □ □ □ □ □	< ± 5 degrees to Rated Power (with TWTA)	
9. Group Delay								□ □ □ □ □ □ □ □	< 1 ns/60 MHz	
10. AM/PM Conversion								□ □ □ □ □ □ □ □	< 2 deg/dB to Rated Power (with TWTA) (<1 deg/dB typical)	
11. Spurious/Noise								□ □ □ □ □ □ □ □	< -135 dBw/4 KHz (at 0 dB gain)	
12. Input/Output VSWR								□ □ □ □ □ □ □ □	< 1.35:1	
13. Power								□ □ □ □ □ □ □ □	+15 Volts dc, < 300 mA, 14005 Model < 500mA	
14. RF Interface								□ □ □ □ □ □ □ □	2 SMA Female Connectors	

BAFL - 14000H/18000D FUNCTIONAL BLOCK DIAGRAM

