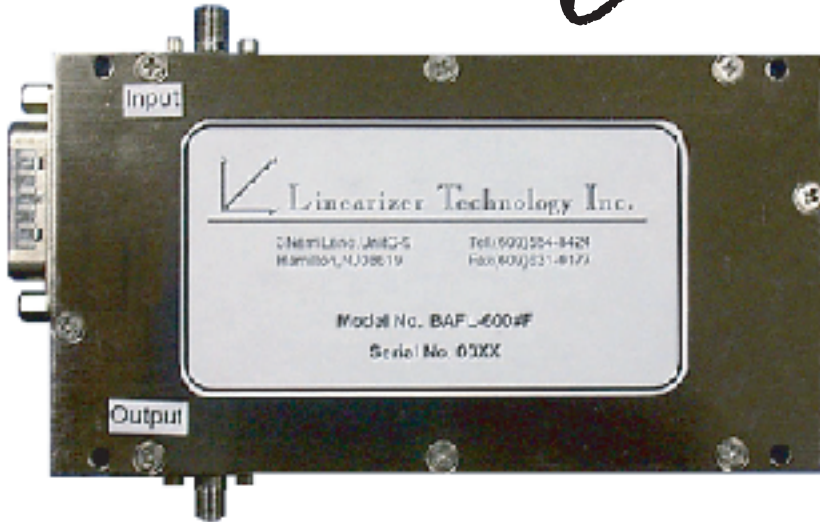


Predistortion Linearizers Can Give TWTAs an Effective 4X Power Increase with Multicarrier Traffic.

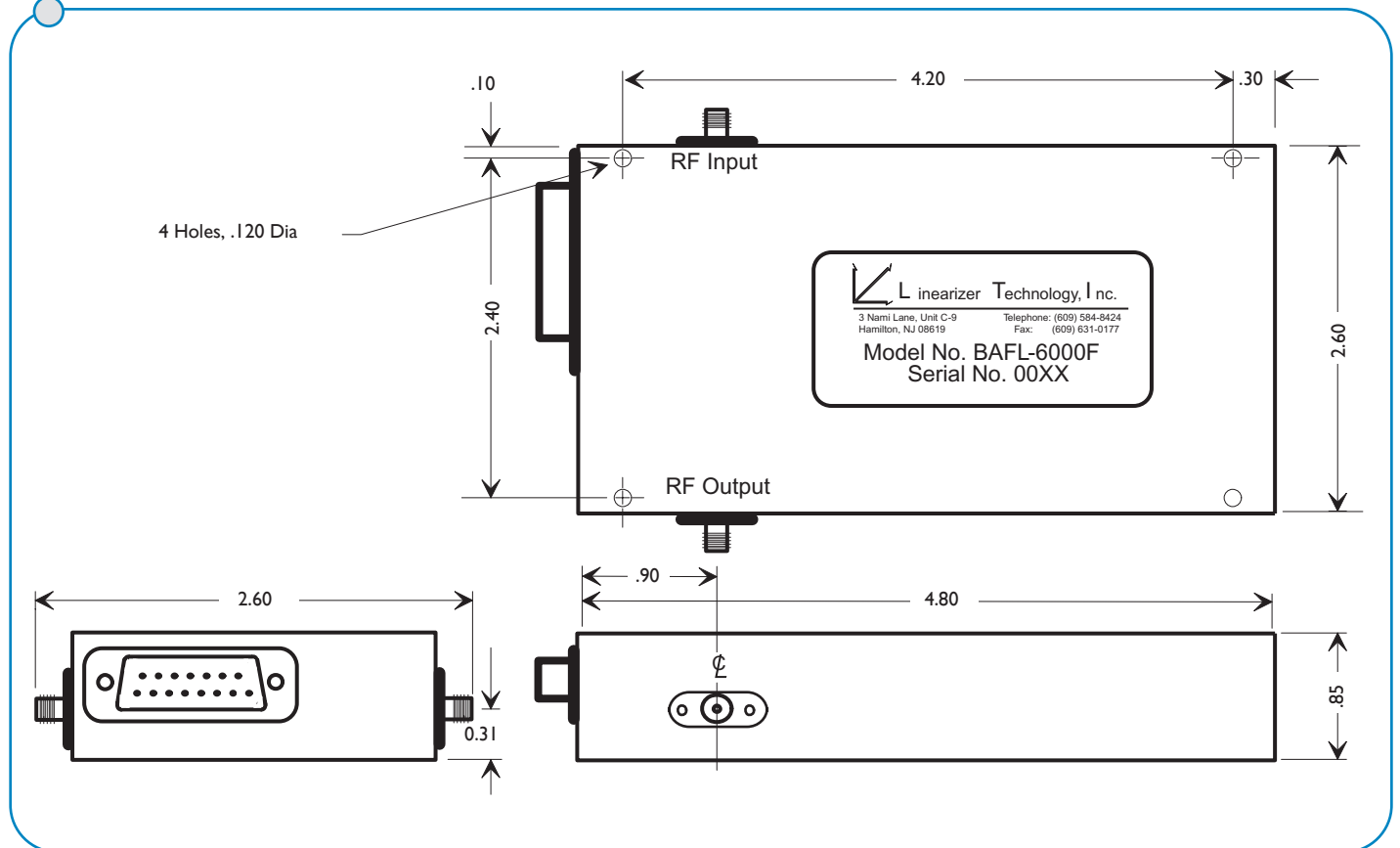
LINEARIZER

C + X Band
BAFL-6000F/8000F



- High Performance
- Full Uplink Bandwidths
- Easy to Align
- Compact Design
- For Digital, Analog, & Mixed Signals

BAFL - 6000F OUTLINE SPECIFICATIONS



BAFL - 6000F/8000F PERFORMANCE SUMMARY

1. Option/Frequency Range		6001	5,850 to 6,650 MHz
		6002	5,850 to 7,100 MHz
		6003	5,850 to 6,450 MHz
		6004	5,700 to 6,650 MHz
		6005	5,800 to 6,725 MHz
		8001	7,900 to 8,400 MHz (Other Ranges Available)
2. Power Level In for TWTA Rated Power			
		FAL and FAM	-15 dBm to -5 dBm
		FGM and FGH	+5 dBm to +15 dBm
		FNL and FNM	-15 ± 2 dBm
		FZM and FZH	7 ± 2 dBm
3. Power Level Out for TWTA Rated Power			
		F_H	+7 dBm to +17 dBm
		F_M	+2 dBm to +12 dBm
		F_L	-10 dBm to 0 dBm
4. Output Backoff (From Single Carrier Rated Power)			
		3 dB	> 25 dB
		≥ 4 dB	> 30 dB
5. Gain Flatness			
			< +/- 0.5 dB Over Any 500 MHz
6. Gain Slope			
			< 0.020 dB/MHz
7. Gain Stability Over Temperature			
			< ± 1 dB, -20 to 60 ° 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
13. Power			
			+15 Volts dc, < 250 mA
14. RF Interface			
			2 SMA Female Connectors

BAFL - 6000F/8000F FUNCTIONAL BLOCK DIAGRAM

