REV. A - 04.03.02

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

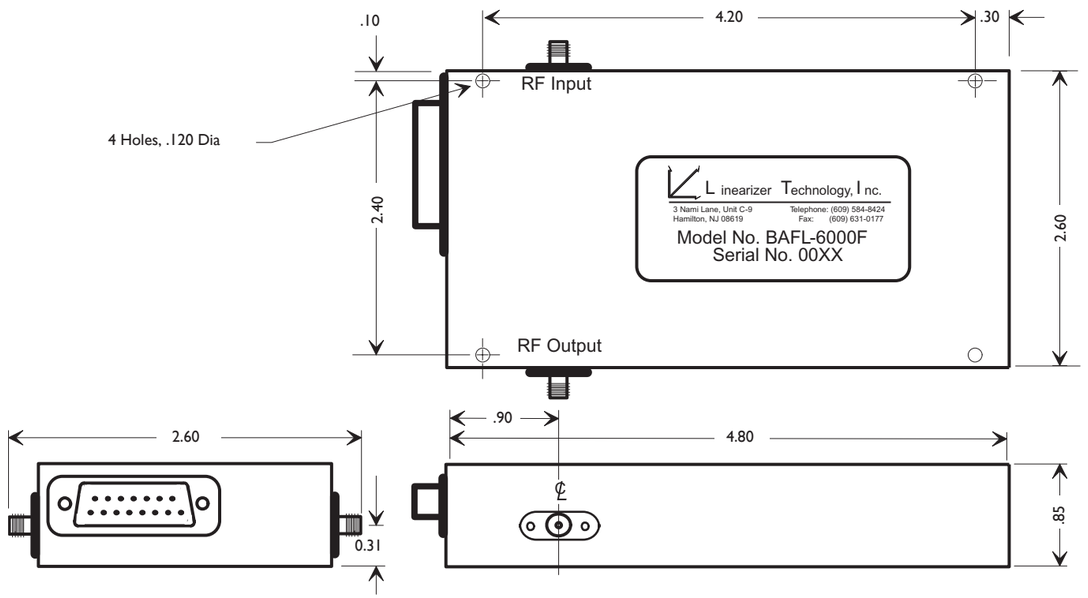
LINEARIZER

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**

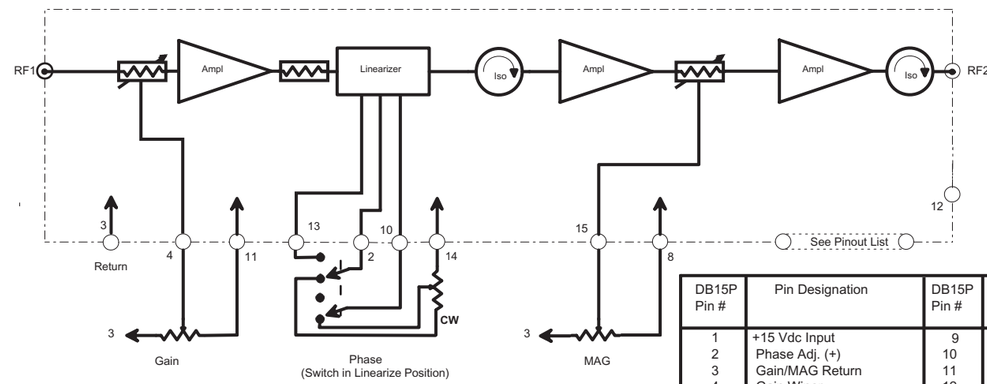


Linearizer Technology, Inc.™

BAFL - 8000E **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)		Minimum Carrier to 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		< 0.020 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 **FUNCTIONAL BLOCK DIAGRAM**



DB15P Pin #	Pin Designation	DB15P Pin #	Pin Designation
1	+15 Vdc Input	9	15 Vdc Return (Ground)
2	Phase Adj. (+)	10	Phase Adjust Wiper
3	Gain/MAG Return	11	Gain Adjust (+)
4	Gain Wiper	12	Power Monitor (Optional)
5	Digital Control (Optional)	13	Bypass Switch
6	Digital Control (Optional)	14	Phase Return
7	Digital Control (Optional)	15	MAG Adjust Wiper
8	MAG Adjust (+)		

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