

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

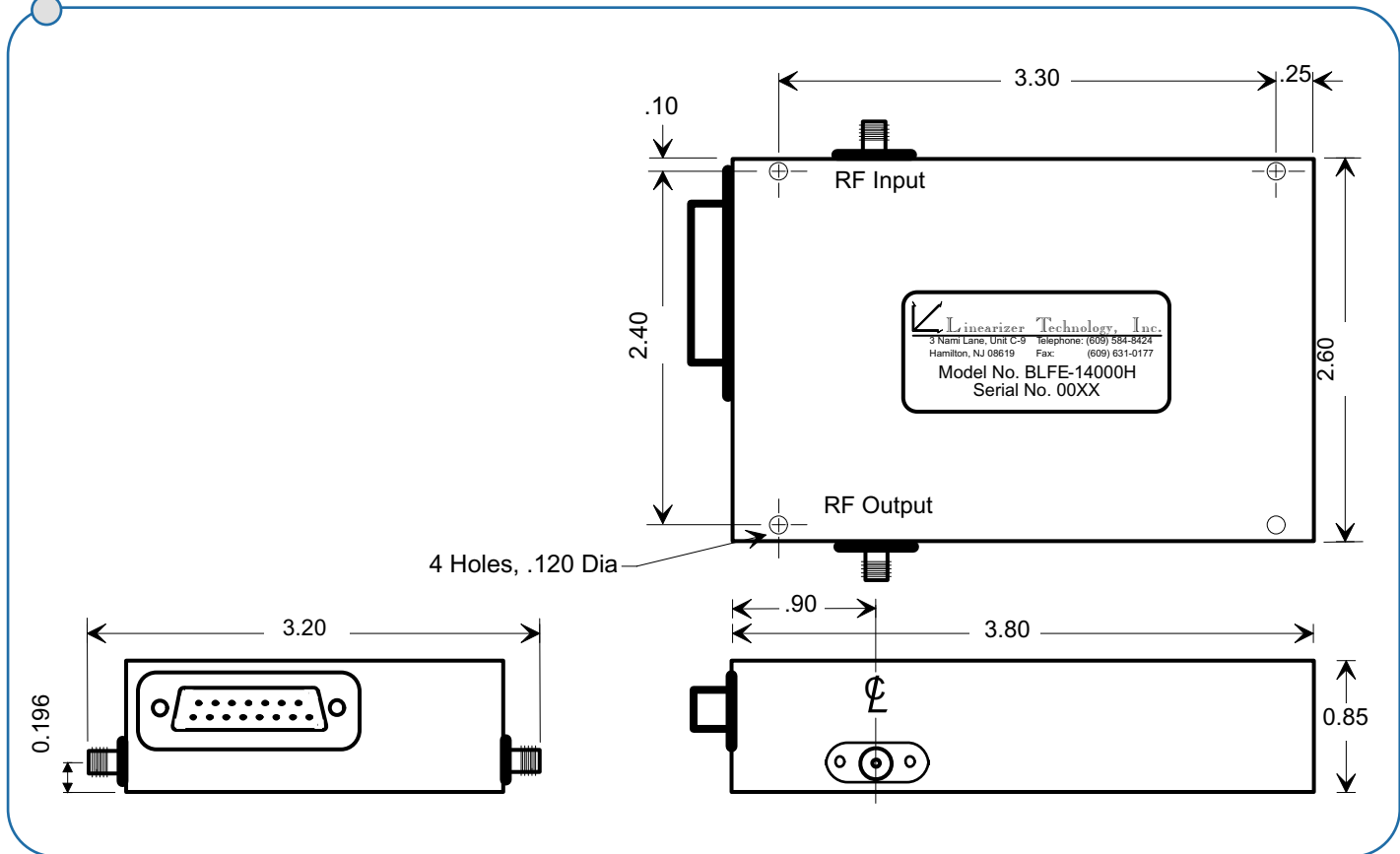
FRONT END LINEARIZER

Ku Band
BLFE-14000H
Series



- >40 dB Gain
- Full Uplink Bandwidths
- >25 dB Adj. Attn.
- Compact Design
- Wide Dynamic Range
- For Digital, Analog, & Mixed Signals

BLFE - 14000H OUTLINE SPECIFICATIONS

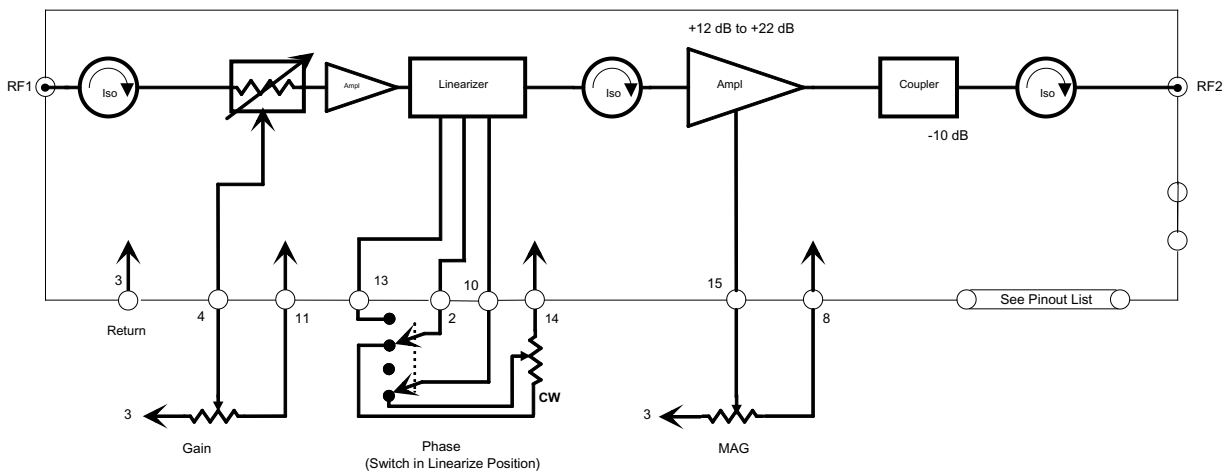


BLFE - 14000H PERFORMANCE SUMMARY

1. Option/Frequency Range		□ □	14001	□	□	13.75 to 14.5 MHz							
		□ □	□	□	□	14003	□	14.0 to 14.5 MHz					
		□ □	□	□	□	14005		12.75 to 14.5 MHz					
2. Power Level In for TWTA Rated Power													
		□	□	□	□	HA_	□ □	□	-25 to -10 dBm				
3. Power Level Out for TWTA Rated Power													
		□	□	□	□	HAH	□ □	□	Adj. from 7 dBm to 17 dBm				
		□	□	□	□	HAM	□ □	□	Adj. from 2 dBm to 12 dBm				
		□	□	□	□	HAL	□ □	□	Adj. from -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, -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	
13. Power									□ □	□	□	15 Volts dc, < 400 mA*	
14. RF Interface									□	□	□	□	2 SMA Female Connectors

*except 14005

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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	Not Used
5	Not Used	13	Bypass Switch
6	Not Used	14	Phase Return
7	Not Used	15	MAG Adjust Wiper
8	MAG Adjust (+)		