

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

LINEARIZER

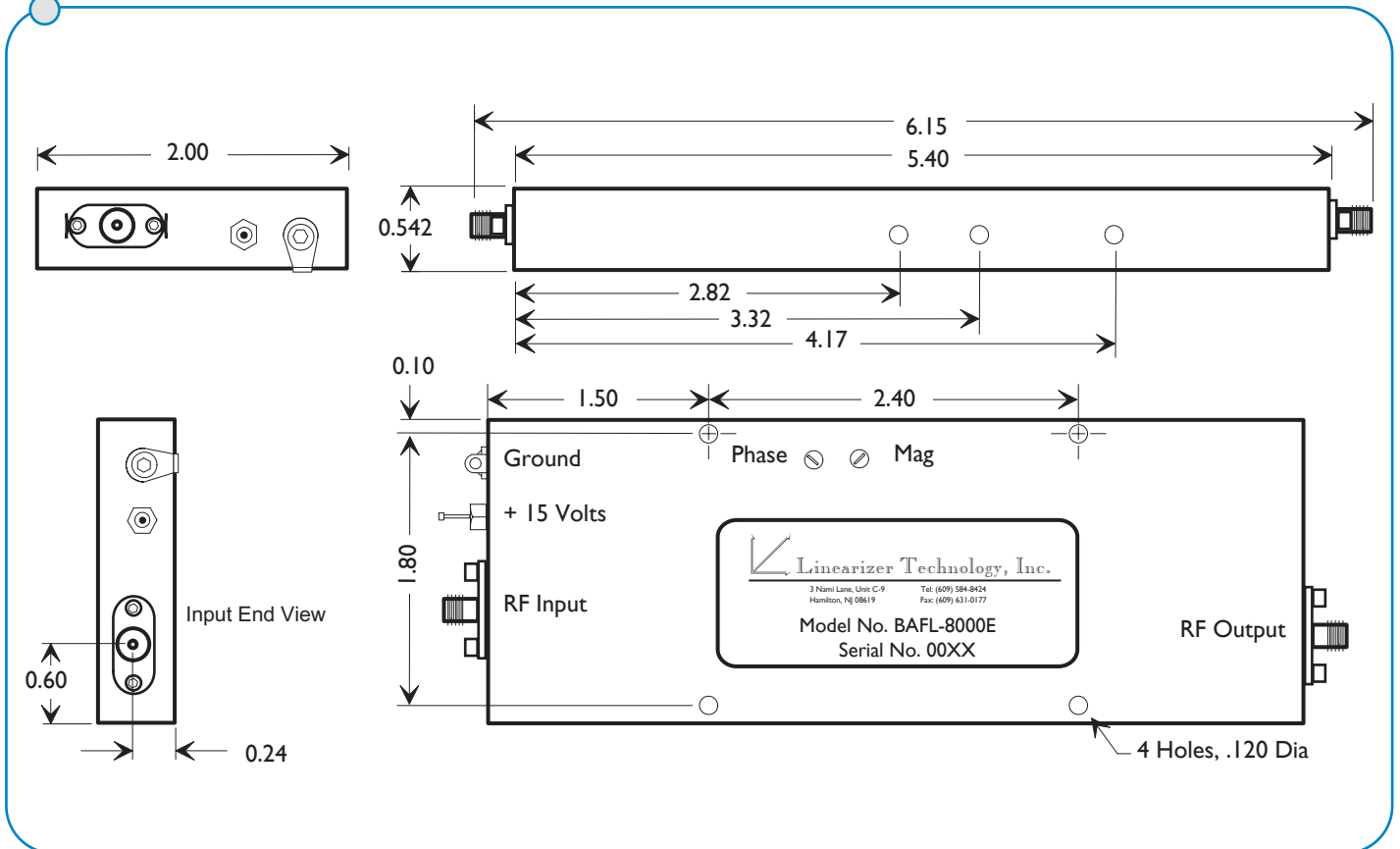
X Band

BAFL-8000E



- For Tri-Band TWTAs
- Compact Design
- Highly Reliable & Economical
- Easy to Align
- Full Uplink Bandwidths

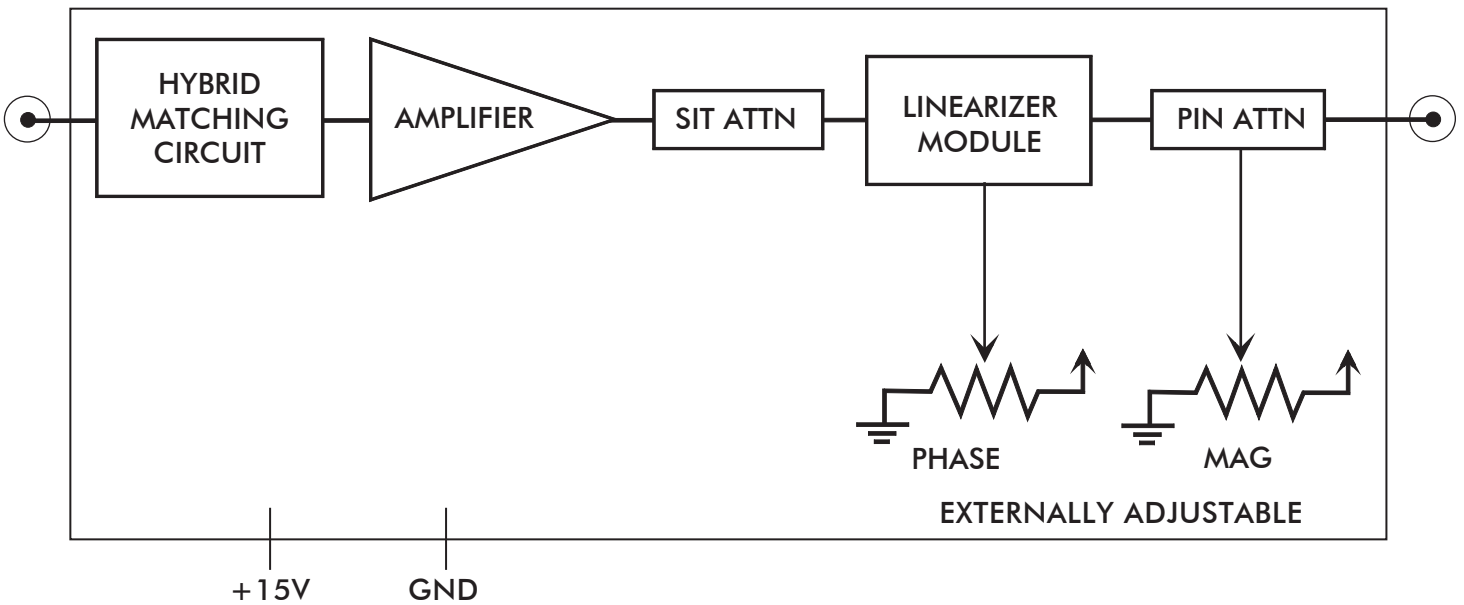
BAFL - 8000E OUTLINE SPECIFICATIONS



BAFL - 8000E PERFORMANCE SUMMARY

1. Frequency Range						7,900 to 8,400 MHz
2. Output Power Level (Referenced to Rated Power)						-26 dBm to -16 dBm
Input Power Level (Referenced to Rated Power)						-18 dBm \pm 3 dBm
3. Output Backoff (From Single Carrier Rated Power)						Minimum Carrier to Intermodulation (C/I) Ratio with TWTA
			3 dB			> 25 dB
			> 4 dB			> 30 dB
4. Gain Flatness						< \pm 0.5 dB Over Any 500 MHz
5. Gain Slope						< 0.02 dB/MHz
6. Gain Stability Over Temperature						< \pm 1 dB, -10 to + 50° C (optional < \pm 0.5 dB)
7. Static Phase Shift						< \pm 5 degrees to Rated Power (with TWTA)
8. Group Delay						< 1 ns/60 MHz
9. AM/PM Conversion						< 2 deg/dB to Rated Power (with TWTA)
10. Spurious/Noise						< -135 dBw/4 KHz (at 0 dB gain)
11. Input/Output VSWR						< 1.35:1
11.DC Power						+15 Volts dc, < 150 mA
12. RF Interface						2 SMA Female Connectors

BAFL - 8000E FUNCTIONAL BLOCK DIAGRAM



The internal controls of the BAFL-8000E have the option to be externally configured. SIT Attenuators allow for custom input drive levels.