N-Series



Linearizer Technology Product Brief Rev 1

The **N-Series** linearizer is a Tri-band frontend mini-system used in conjunction with a TWTA, MPM, or SSPA amplifier to provide superior HPA linearity performance for 3 uplink bands in a single unit. Each switchable path provides RF gain, predistortion, output level control, and RF output power to drive an amplifier to saturation. The **N-Series** is available but not limited to Satcom uplink C-, X-, and Ku-bands.



Tri-Band

N-Series (Models: BAFL or BLFE) 3.75" L x 1.55" W x 0.70" H (cm) 9.53 L x 3.94 W x 1.78 H

FEATURES/OPTIONS

Compact Package

Each switchable band can be optimized for optimum performance.

Temperature Compensation

Extended Range -25 to +85°C

TTL MUTE Function

O/P Power Detector

Contact us for additional custom features.

Typical Uplink Frequency Bands

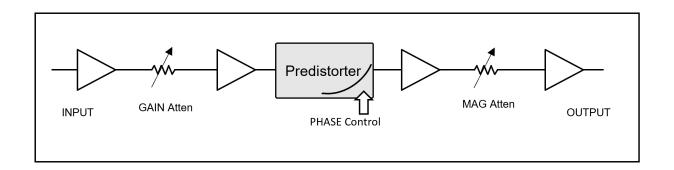
Frequency Range: 5.850 to 6.450 GHz

7.900 to 8.400 GHz 13.75 to 14.50 GHz

General Performance

Intermodulation (C/I):

Input Power Level for HPA Rated Power: Output Power for HPA Saturation:	-15 to -5 dBm > than +18 dBm
Gain: Gain Flatness:	> 30 dB (typ.) < ± 0.5 dB over any 500 MHz < 0.02 dB/MHz
Gain Slope: Gain Stability:	$< \pm 0.75 \text{ dB}, -25 \text{ to } +85^{\circ}\text{C}$
Static Phase Shift to HPA Rated Power: AM/PM Conversion to HPA Rated Power: Spurious/Noise:	< ± 5 degrees ± 2 degrees < -135 dBw/4 KHz (max Gain)
Input and Output VSWR: RF Interface: DC Interface: DC Power:	1.8:1 SMA Female Connectors Solder Terminals +16 Volts, 500 mA (typ.)
Performance w/ TWTA	



>25 dBc @ 3 dB OPBO >30 dBc @ ≥4 dB OPBO