

The **BLFE-Series** linearizer is a frontend mini-system used in conjunction with a TWTA, MPM, or SSPA amplifier to provide superior HPA linearity performance. It provides RF gain, predistortion, input and output level control, and RF output power to drive an amplifier to saturation.

The **BLFE-Series** is available but not limited to all Satcom uplink bands L thru Q band.



3.95L x 2.75W x 0.79H

Typical Performance Specification

Frequency Range:	5.850 to 6.725 GHz
	7.900 to 8.400 GHz
	13.75 to 14.50 GHz
	17.30 to 18.40 GHz
	27.00 to 31.00 GHz
	43.50 to 46.00 GHz
Input Power Level for HPA Rated Power:	-30 to -5 dBm
Output Power for HPA Saturation:	up to +28 dBm
Gain:	> 40 dB (typ.)
Gain Flatness:	< ± 0.5 dB over any 500 MHz
Gain Slope:	< 0.02 dB/MHz
Gain Stability:	< ± 0.75 dB, -20 to +85°C
User Gain Attenuator Range:	32 dB (typ.)
Control:	0 to X Volts
	8/9 Bit Digital (.25/.15 dB step)
Static Phase Shift to HPA Rated Power:	< ± 5 degrees
AM/PM Conversion to HPA Rated Power:	± 2 degrees
Spurious/Noise:	< -135 dBW/4 KHz (max Gain)
Input and Output VSWR:	1.5:1
RF Interface:	SMA, 2.92, or 2.4mm Female Connectors
DC Interface:	15 or 25 Pin Male D-Sub
Interface:	Analog, I ² C, RS232, RS485
DC Power:	+12 Volts, 600mA (typ.)

FEATURES/OPTIONS

Compact Package

Multiple Interface Options

Analog, I²C, RS232, RS485

Temperature Compensation

Extended Range -55 to +85°C

Analog or Digital User Attenuator

32 dB, 0-X Volts, 8/9 bit digital

TTL MUTE Function

O/P Power Detector

Contact us for additional custom features.

Any Frequency – Any Power

Performance w/ TWTA

Intermodulation (C/I): >25 dBc @ 3 dB OPBO

