

# Satellite Communication Line Amplifiers Bench Instrument

The BSL series of Satellite Communication Line Amplifiers are designed to compensate for losses in microwave and RF signal paths, either between system components and across site or as a driver for high power transmission amplifiers.

- L, C, X, Ku, DBS, Ka Bands
- Multi-Bands
- Driver & Cross Site
- Flat Response
- Portable
- Custom Options



### General Specification

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Impedance	50 ohms
Maximum Input Level	+20 dBm
Gain Flatness	+/-0.5 dB typ. in any 500MHz
Third Order Intercept	+30 dBm typ
Saturation Output Power	2 dB typ. above 1dB GCP
Internally Generated Spurious	-70 dBc typ.
Operating Temperature Range	-10+50C
Noise Figure Specification	@ +25C
Input & Output Connector	Front panel
Option 01 RF Monitor Connector	Front panel
Option 12 Director Output	Front panel, BNC female
Optional Attenuator Control	10 turn knob with dial
AC Input Power	80-240V, 50-60Hz
Input Power Connector	IEC with fuse, rear panel
Power On/Off with indicator	Front panel
Size	260 x 110 x 360mm including connectors & protrusions



**Options:**

- 00 - Standard
- 01 - 30 dB Output Coupler with RF Monitor Port
- 02 - Two Outputs @ +20 dBm each
- 03 - Three Outputs @ +20 dBm each
- 04 - Four Outputs @ +20 dBm each
- 21 - 30 dB Variable Input Attenuator
- 22 - 30 dB Variable Output Attenuator
- 23 - Output Monitor Detector
- 24 - 30 dB Gain (min)
- 25 - 40 dB Gain (min)
- 26 - +23 dBm output @ 1dB GCP (min)
- 27 - Input Isolator (1.25:1 VSWR, subject to band width)
- 28 - Output Isolator (1.25:1 VSWR, subject to band width)
- 31 - Type N Female Input Connector (18 GHz max)
- 32 - Type N Female Output Connector (18 GHz max)
- 33 - Type N Female RF Monitor Connector (18 GHz max)

**Custom options:**

- Custom Frequency Range
- Custom Gain Profile
- Cable Loss Gain Equalisation
- TWT Slope Gain Equalisation
- Filtered Output
- Higher Output
- Power to 10 watts (not 1U rack)
- Switched Channel Outputs
- Remote Gain Control
- Multiple Inputs
- Portable Units
- Modular Construction

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

