



LBAM-20E

L-Band Amplifier

DESCRIPTION

Amplification of L-Band frequencies between 950 MHz and 2150 MHz is easily accomplished with the Armer Communications L-Band Amplifier Module (LBAM). The LBAM-20E is a reliable cost-effective solution for overcoming cable insertion loss and slope, inherent in signal distribution networks utilizing coaxial cables. Available with Type F or BNC female connectors (customer specified), the LBAM-20E is easily installed within existing systems while minimizing down time for active circuits.

Compensating for up to 20 dB of signal loss and 10 dB of slope, the LBAM-20E is the right choice for single or multiple channel distribution systems with varying cable lengths requiring matched power levels at all receiver inputs. Varying the LBAM-20E's gain from 3 to 20 dB and/or slope from 0 to 10 dB is conveniently accomplished by using adjustments available through the top cover. The LBAM-20E slope is a linear positive monotonic adjustment that allows for higher gain at 2150 MHz and lower gain at 950 MHz.

Various DC bias schemes are available preset from the factory, or easily set in the field. DC power can be derived by using the external AC/DC transformer capable of supplying DC power to the LNB if required. DC power can also be applied through the coaxial cable on the input connector and passed through the LBAM-20E to the output connector, eliminating the need for the external AC/DC power adapter. Additionally, DC power can



LBAM-20E L-Band Amplifier with Transformer



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be blocked from any of the connectors by simply configuring the internal jumpers.

Enclosed in a NEMA 4 rated housing, the LBAM-20E is capable of operating in either indoor or outdoor applications.

Self-contained #6-32 mounting hardware gives the LBAM-20E maximum flexibility for mounting in a wide range of applications. Optional rack mounting kits are available for single, dual, or quad mounting. Each kit contains a mounting plate, coaxial interconnect cables, and rack mount screws.

Offering innovative solutions that fit our customer's requirements and keeping customer satisfaction our highest priority has allowed Armer Communications to become a world renowned supplier of global turnkey satellite communications systems and earth station products.

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SPECIFICATIONS

Operational

Input Power Level:	-17 dBm Maximum
Input/Output Frequency Range:	950 to 2150 MHz
Input/Output Connectors:	BNC Female or Type F Female
Input/Output Impedance:	75 Ohms
Input/Output Return Loss:	12 dB Minimum
Gain:	3 dB to 20 dB, Adjustable
Slope:	0 dB to 10 dB, Adjustable
Output Amplitude Flatness:	± 2 dB From 950 to 2150 MHz
Output 1 dB Compression Point:	-2 dBm Typical
Noise Factor:	19 dB Maximum (With Maximum Gain and Slope)
DC Input Power:	+8 - 24 VDC, 100 mA Maximum

Environmental

Operational Temperature Range:	-30°C to +50°C
Humidity:	100% Condensing (NEMA 4 Watertight Enclosure)
Storage Temperature Range:	-40°C to +60°C

Physical

Height	1.2 Inches
Width	4.6 Inches
Depth	2.6 Inches
Weight	< 1 Pound

ORDERING INFORMATION

LBAM-20E-WXYZ

W: I/O Connectors

- B - BNC Female
- F - Type F Female

X: DC Configuration (Factory Preset)

- 0 - DC Blocked I/O Connectors
- 1 - Unblocked I/O Connectors
(DC available on input and output connectors)
- 2 - Input DC Blocked, Output DC Unblocked
(DC available on output connector only)
- 3 - Output DC Blocked, Input DC Unblocked
(DC available on input connector only)

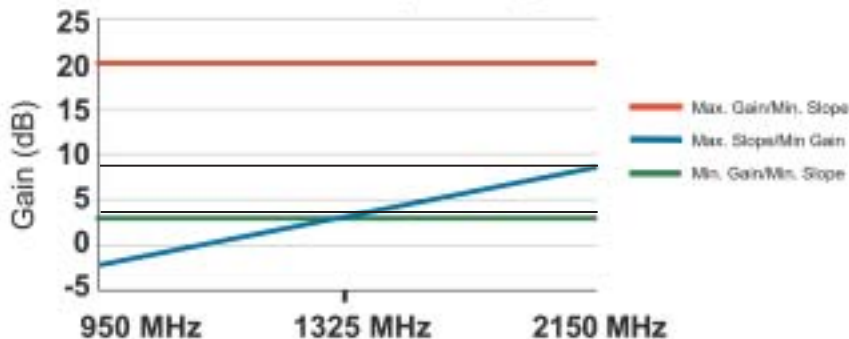
Y: Power Transformer (Indoor use only)

- 0 - None
 - 1 - 120 Vac to 9 Vdc, 300 mA
 - 2 - 120 Vac to 18 Vdc, 1.0 A (for use with LNB)
- Note: Consult factory for other power configurations.

Z: Mounting Kits

- 0 - None
- 1 - Kit contains one dual mounting plate, one four foot coax interconnect cable, and two #10-32 rack mount screws for single unit mounting.
- 2 - Kit contains one dual mounting plate, 2 ea. four foot coax interconnect cables, two #10-32 rack mount screws for dual unit mounting.
- 3 - Kit contains: one 19" 3RU mounting plate, 4 ea. four foot coax cables, four 10 x 32 rack mount screws.
One kit will mount four LBAM-20E units.

LBAM-20E Adjust Range



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