RF Components

L-band Amplifiers

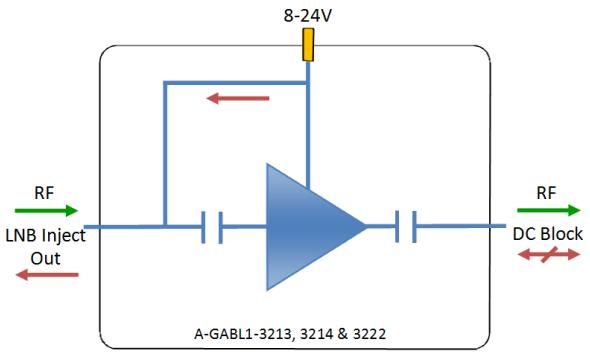
850 to 2150MHz

Model Number:
A-GABL1-3213, 3214 & 3222

- DC block on the input port
- Gain options of +10, +20 and +30 dB
- LNB injection onto the input port
- DC block on the output port
- Requires 8 to 24V external DC bias

Available with RF connector options:

- 50 Ω SMA
- 50 Ω N-type
- 50 Ω BNC
- 75 Ω BNC
- 75 Ω F-type



8-24V
External DC powering

850-2150 MHz
Operating frequency range.

Compact
Housed in rugged compact enclosure

Flexible Mounting
Tapped screw & through hole mounting options

RF Parameters						
A-GABL1-3213		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain (dB)		10 ±1.5	10 ±1.5	10 ±1.5	10 ±1.5	10 ±2.0
Input Return Loss (dB)	Typ.	22	22	18	15	12
	Min.	14	14	12	8	8
Output Return Loss (dB)	Typ.	20	20	18	15	15
	Min.	12	12	12	8	8
Output P1dB GCP** (dB)	Typ.	18	18	18	18	18
	Min.	13	13	13	13	13
Output IP3 (dBm)	Typ.	28	28	28	28	28
Noise Figure (dB)	Typ.	13	13	13	13	13

**1dB Gain Compression Point (1dB GCP) is in relation to output power.
Gain measured at centre of frequency band

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

RF Components

Model Number:
A-GABL1-3213, 3214 & 3222
L-band Amplifiers

RF Parameters						
A-GABL1-3214		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain (dB)		20 ±1.5	20 ±1.5	20 ±1.5	20 ±1.5	20 ±2.0
Input Return Loss (dB)	Typ.	22	22	18	15	12
	Min.	14	14	12	8	8
Output Return Loss (dB)	Typ.	20	20	18	15	15
	Min.	12	12	12	8	8
Output P1dB GCP** (dB)	Typ.	18	18	18	18	18
	Min.	15	15	15	15	15
Output IP3 (dBm)	Typ.	28	28	28	28	28
Noise Figure (dB)	Typ.	10	10	10	10	10

**1dB Gain Compression Point (1dB GCP) is in relation to output power.
Gain measured at centre of frequency band

RF Parameters						
A-GABL1-3222		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain (dB)		30 ±2.0	30 ±2.0	30 ±2.0	30 ±2.0	30 ±2.0
Input Return Loss (dB)	Typ.	22	22	18	15	12
	Min.	14	14	12	8	8
Output Return Loss (dB)	Typ.	20	20	18	15	15
	Min.	12	12	12	8	8
Output P1dB GCP** (dB)	Typ.	18	18	18	18	18
	Min.	15	15	15	15	15
Output IP3 (dBm)	Typ.	28	28	28	28	28
Noise Figure (dB)	Typ.	10	10	10	10	10

**1dB Gain Compression Point (1dB GCP) is in relation to output power.
Gain measured at centre of frequency band

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RF Components

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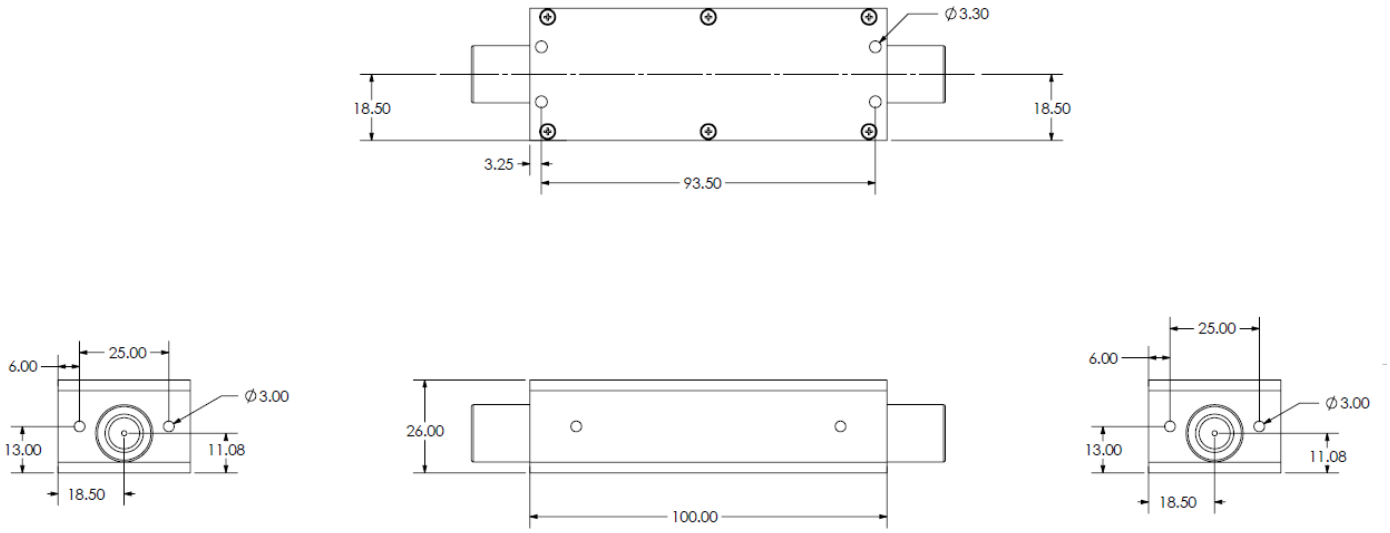
L-band Amplifiers

Environmental		
Operating Temperature		0˚C to +45˚C
Storage Temperature		-20˚C to +75˚C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Max Operating Parameters		
Input RF Power		+16 dBm (40mW)
DC Voltage		35V on any RF port
DC Current	Max	N/A
DC Consumption		200mA Max, 160mA typical

❗ Operation beyond these limits may cause instantaneous and permanent damage.

Physical Dimensions (mm)



Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.

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