

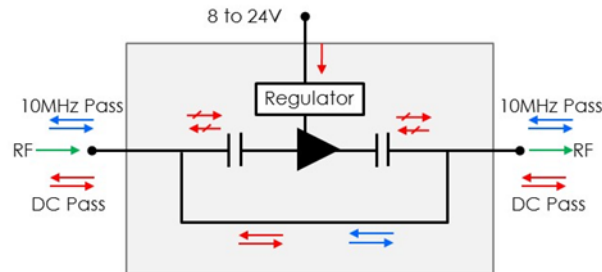


RF Components

L-band Amplifiers

850 to 2150MHz

Model Number:
A-GABL1-3210, 3217 & 3218



3210, 3217 & 3218

- 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-GABL1-3217	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50 Ω SMA	50 Ω N-Type	50 Ω BNC	75 Ω BNC	75 Ω F-Type
Gain (dB)	20 $\pm$ 1.0	20 $\pm$ 1.0	20 $\pm$ 1.0	20 $\pm$ 1.0	20 $\pm$ 1.0
Input Return Loss (dB)	Typ. 21	21	17	16	16
	Min. 15	15	13	10	10
Output Return Loss (dB)	Typ. 23	23	18	16	16
	Min. 15	15	14	10	10
Output P1dB GCP** (dB)	Typ. 15	15	15	15	15
	Min. 12	12	12	12	12
Output IP3 (dBm)	Typ. 23	23	23	23	23
Noise Figure (dB)	Typ. 9	9	9	9	9
**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-GABL1-3210, 3217 & 3218
L-band Amplifiers

RF Parameters					
A-GABL1-3218	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)	25±1.0	25±1.0	25±1.0	25±1.0	25±1.0
Input Return Loss (dB)	Typ.	18	18	17	16
	Min.	13	13	13	10
Output Return Loss (dB)	Typ.	19	19	18	16
	Min.	14	14	14	10
Output P1dB GCP** (dB)	Typ.	16	16	16	16
	Min.	15	15	15	15
Output IP3 (dBm)	Typ.	23	23	23	23
Noise Figure (dB)	Typ.	8	8	8	8
**1dB Gain Compression Point (1dB GCP) is in relation to output power. Gain measured at centre of frequency band					

RF Parameters					
A-GABL1-3210	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±1.0	30±1.0	30±1.0	30±1.0	30±1.0
Input Return Loss (dB)	Typ.	18	18	17	16
	Min.	13	13	13	10
Output Return Loss (dB)	Typ.	19	19	18	16
	Min.	14	14	14	10
Output P1dB GCP** (dB)	Typ.	17	17	17	17
	Min.	15	15	15	15
Output IP3 (dBm)	Typ.	23	23	22	23
Noise Figure (dB)	Typ.	7	7	7	7
**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

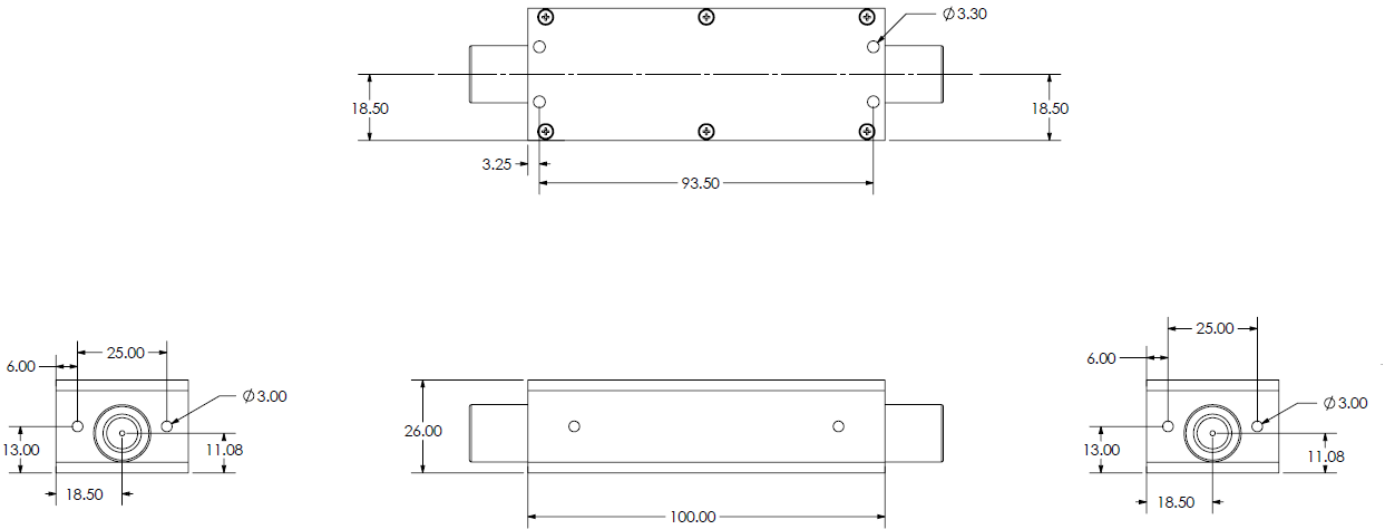
Model Number:
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L-band Amplifiers

Environmental	
Operating Temperature	0°C to 55°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	24V on any RF port
DC Current	Max 500mA

! 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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