RF Components

L-band Amplifier

850 to 2150MHz

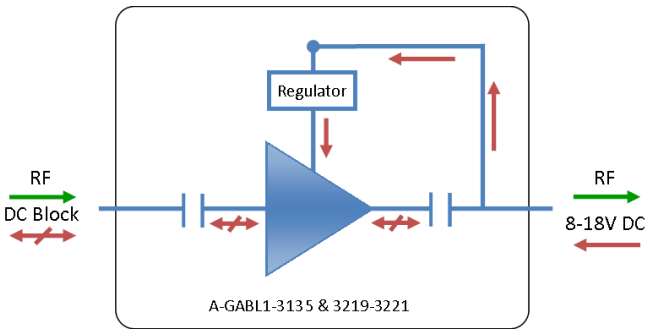
Model Number:

A-GABL1-3135 & 3219 - 3221

- Flat frequency versus gain characteristics
- DC block on the input port
- Gain options of 10, 15, 20 and 25dB
- Requires 8-18V DC from the output RF cable

Available with RF connector options:

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



8-18V
From the output RF cable

850-2150 MHz
Operating frequency range.

Compact
Housed in rugged compact enclosure

Flexible Mounting
Tapped screw & through hole mounting options

RF Parameters						
A-GABL1-3219		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	10	10	10	10
Flatness (dB)		± 0.3	± 0.3	± 0.4	± 0.6	± 0.8
Input Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	6	6
Output Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	6	6
Output P1dB GCP** (dB)	Typ.	12	12	12	12	12
	Min.	10	10	10	10	10
Output IP3 (dBm)	Typ.	20	20	20	20	20
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-GABL1-3135 & 3219-3221
L-band Amplifiers

RF Parameters						
A-GABL1-3220		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)		15	15	15	15	15
Flatness (dB)		± 0.3	± 0.3	± 0.4	± 0.6	± 0.8
Input Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output P1dB GCP** (dB)	Typ.	16	16	16	16	16
	Min.	13	13	13	13	13
Output IP3 (dBm)	Typ.	22	22	22	22	22
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-GABL1-3221		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	20	20	20	20
Flatness (dB)		± 0.3	± 0.3	± 0.4	± 0.6	± 0.8
Input Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output P1dB GCP** (dB)	Typ.	17	17	17	17	17
	Min.	14	14	14	14	14
Output IP3 (dBm)	Typ.	23	23	23	23	23
Noise Figure (dB)	Typ.	9	9	9	9	9

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

RF Components

Model Number:
A-GABL1-3135 & 3219-3221
L-band Amplifiers

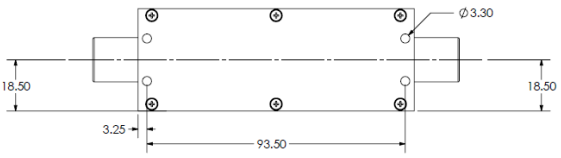
RF Parameters						
A-GABL1-3135		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain (dB)		25±1.5	25±1.5	25±1.5	25±1.5	25±1.5
Flatness (dB)		± 0.3	± 0.3	± 0.4	± 0.6	± 0.8
Input Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output Return Loss (dB)	Typ.	15	15	12	10	10
	Min.	10	10	10	8	8
Output P1dB GCP** (dB)	Typ.	16	16	16	16	16
	Min.	13	13	13	13	13
Output IP3 (dBm)	Typ.	25	25	25	25	25
Noise Figure (dB)	Typ.	7	7	7	7	7

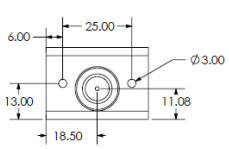
Environmental		
Operating Temperature		0˚C to +50˚C
Storage Temperature		-20˚C to +75˚C
Location		Indoor use Only
Humidity	Max	95% non-condensing
Altitude	Max	10,000 feet

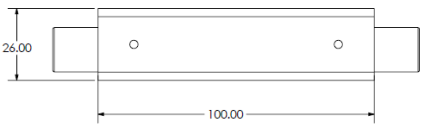
Max Operating Parameters		
Input RF Power		+16 dBm (40mW)
DC Voltage		24V on any RF port
DC Current	Max	500mA
DC Consumption		100mA Max, 80mA typical

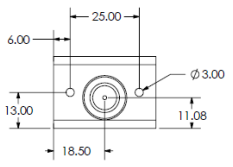
! Operation beyond these limits may cause instantaneous and permanent damage.

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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