

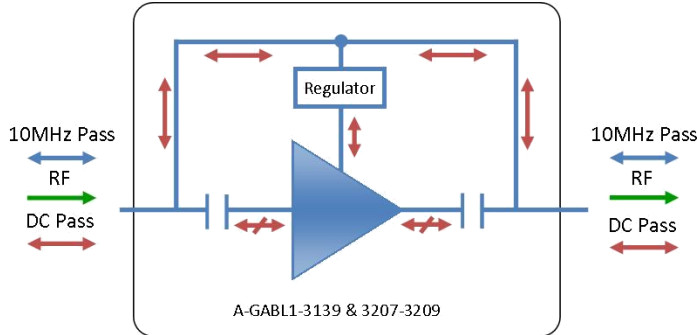


Model Number:
A-GABL1-3139 & 3207-3209

RF Components

L-band Amplifiers

850 to 2150MHz



- Flat frequency versus gain characteristics over 850 to 2150MHz
- 10MHz pass and DC pass on both ports
- Gain options of ± 10 , ± 15 , ± 20 and ± 28 dB
- Requires 8-24V DC from the inline RF cable.

Available with RF connector options:

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

8-24V

From the inline RF cable

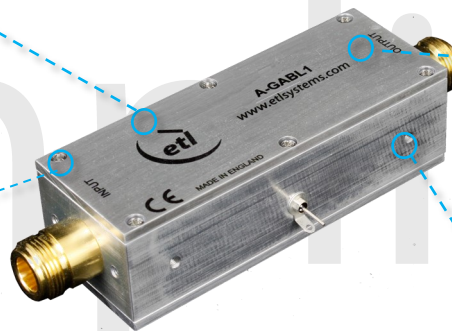
Compact

Housed in rugged compact enclosure

850-2150 MHz
Operating frequency range.

Flexible Mounting

Tapped screw & through hole mounting options



		RF Parameters				
A-GABL1-3139		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)		10 \pm 1.5	10 \pm 1.5	10 \pm 1.5	10 \pm 1.5	10 \pm 1.5
Gain vs. Frequency Variation (dB)	Typ.	\pm 0.3	\pm 0.3	\pm 0.4	\pm 0.6	\pm 0.8
	Max	\pm 0.7	\pm 0.7	\pm 0.8	\pm 0.8	\pm 1.0
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.	15	15	15	15	15
	Min.	12	12	12	12	12
Output IP3 (dBm)	Typ.	25	25	25	25	25
Noise Figure (dB)	Typ.	7	7	7	7	7

**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-GABL1-3139 & 3207-3209
L-band Amplifiers

RF Parameters						
A-GABL1-3207	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±1.5	15±1.5	15±1.5	15±1.5	15±1.5	
Gain vs. Frequency Variation (dB)	Typ.	±0.5	±0.5	±0.5	±0.7	±1.0
	Max	±0.7	±0.7	±0.8	±1.0	±1.25
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.	15	15	15	15	15
	Min.	12	12	12	12	12
Output IP3 (dBm)	Typ.	25	25	25	25	25
Noise Figure (dB)	Typ.	7	7	7	7	7

RF Parameters						
A-GABL1-3208	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±1.5	
Gain vs. Frequency Variation (dB)	Typ.	±0.3	±0.3	±0.4	±0.6	±0.8
	Max	±0.7	±0.7	±0.8	±0.8	±1.0
Input Return Loss (dB)	Typ.	19	19	18	16	16
	Min.	14	14	14	10	10
Output Return Loss (dB)	Typ.	19	19	18	16	16
	Min.	14	14	14	10	10
Output P1dB GCP** (dB)	Typ.	12	12	12	12	12
	Min.	10	10	10	10	10
Output IP3 (dBm)	Typ.	23	23	23	23	23
Noise Figure (dB)	Typ.	8	8	8	8	8

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport





RF Components

Model Number:
A-GABL1-3139 & 3207-3209
L-band Amplifiers

RF Parameters						
A-GABL1-3209	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)	28±2.0	28±2.0	28±2.0	28±2.0	28±2.0	
Gain vs. Frequency Variation (dB)	Typ.	±0.5	±0.5	±0.5	±0.8	±1.0
	Max	±0.8	±0.8	±0.9	±1.2	±1.25
Input Return Loss (dB)	Typ.	19	19	18	16	16
	Min.	14	14	14	10	10
Output Return Loss (dB)	Typ.	19	19	18	16	16
	Min.	14	14	14	10	10
Output P1dB GCP** (dB)	Typ.	12	12	12	12	12
	Min.	10	10	10	10	10
Output IP3 (dBm)	Typ.	23	23	23	23	23
Noise Figure (dB)	Typ.	8	8	8	8	8

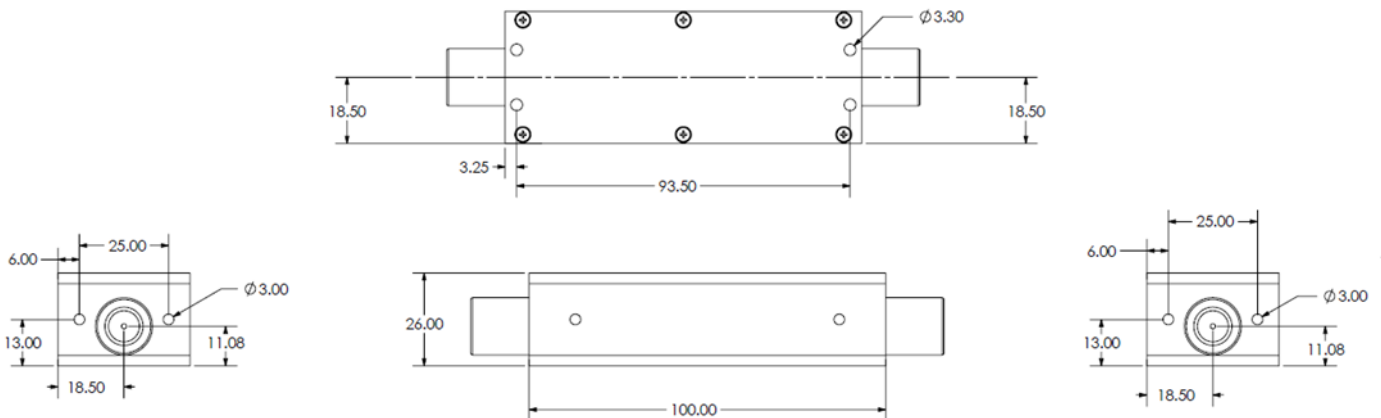
Environmental		
Operating Temperature		0°C to +45°C
Storage Temperature		-20°C to +75°C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Max Operating Parameters		
Input RF Power		+16 dBm (40mW)
DC Voltage		24V
DC Current	Max	500mA max DC pass between the RF ports

10 MHz insertion loss is typically 0.2 to 0.5dB, and max 1dB. 10MHz bypasses the amplifier stages.

! 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.

ETL SYSTEMS LIMITED
 Coldwell Radio Station
 Madley
 Hereford
 England HR2 9NE

TELEPHONE
 +44 (0)1981 259020
 EMAIL
 info@etlsystems.com

FACSIMILE
 +44 (0)1981 259021
 WEB
 www.etlsystems.com

