

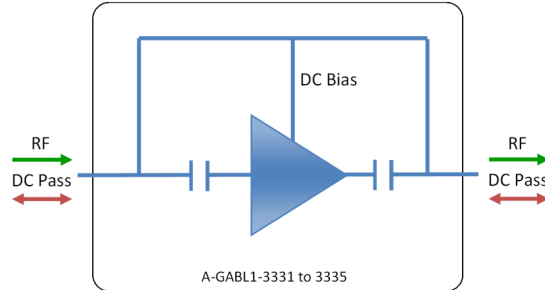


RF Components

L-Band In Line Amplifier

850 to 2150MHz

Model Number:
A-GABL1-3331 to 3335



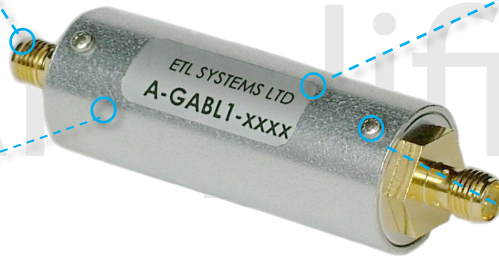
- Tubular with DC pass
- Gain options of ± 10 , ± 15 and ± 20 , ± 25 and ± 30 dB
- In line biased from either port and require 8 to 24v DC.
- Available with RF connector options:
 - 50 Ω SMA
 - 50 Ω N-type
 - 50 Ω BNC
 - 75 Ω BNC
 - 75 Ω F-type

8-24V
In line DC biased

Compact
Housed in rugged compact enclosure

850-2150 MHz
Operating frequency range.

Flexible Mounting
Tapped screw & through hole mounting options



RF Parameters						
A-GABL1-3331	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	
Mean Gain (dB)	10 \pm 0.50	10 \pm 0.50	10 \pm 0.60	10 \pm 0.75	10 \pm 0.75	
Flatness (dB)	\pm 0.7	\pm 0.7	\pm 0.7	\pm 1.5	\pm 1.5	
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.	4	4	4	4	4
	Min.	0	0	0	0	0
Output IP3 (dBm)	Typ.	14	14	14	14	14
Noise Figure (dB)	Typ.	16	16	16	16	16

**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-GABL1-3331 to 3335
L-Band In Line Amplifier

RF Parameters					
A-GABL1-3332	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Gain (dB)	15 ±0.50	15 ±0.50	15 ±0.60	15 ±0.75	15 ±0.75
Flatness (dB)	± 0.7	± 0.7	± 0.7	± 1.5	± 1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min.	14	14	12	8
Output Return Loss (dB)	Typ.	20	20	18	15
	Min.	12	12	12	8
Output P1dB GCP** (dB)	Typ.	8	8	8	8
	Min.	4	4	4	4
Output IP3 (dBm)	Typ.	18	18	18	18
Noise Figure (dB)	Typ.	14	14	14	14

RF Parameters					
A-GABL1-3333	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Gain (dB)	20 ±0.50	20 ±0.50	20 ±0.60	20 ±0.75	20 ±0.75
Flatness (dB)	± 0.6	± 0.6	± 0.6	± 1.5	± 1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min.	14	14	12	8
Output Return Loss (dB)	Typ.	20	20	18	15
	Min.	12	12	12	8
Output P1dB GCP** (dB)	Typ.	10	10	10	10
	Min.	6	6	6	6
Output IP3 (dBm)	Typ.	20	20	20	20
Noise Figure (dB)	Typ.	12	12	12	12

Broadcast



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RF Components

Model Number:
A-GABL1-3331 to 3335
L-Band In Line Amplifier

RF Parameters					
A-GABL1-3334	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Gain (dB)	25 ±0.50	25 ±0.50	25 ±0.60	25 ±0.75	25 ±0.75
Flatness (dB)	± 0.6	± 0.6	± 0.6	± 1.5	± 1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min	14	14	12	8
Output Return Loss (dB)	Typ.	20	20	18	15
	Min	12	12	12	8
Output P1dB GCP** (dB)	Typ.	14	14	14	14
	Min	10	10	10	10
Output IP3 (dBm)	Typ.	26	26	26	26
Noise Figure (dB)	Typ.	10	10	10	10

RF Parameters					
A-GABL1-3335	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Gain (dB)	30 ±0.50	30 ±0.50	30 ±0.60	30 ±0.75	30 ±0.75
Flatness (dB)	± 0.6	± 0.6	± 0.6	± 1.5	± 1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min	14	14	12	8
Output Return Loss (dB)	Typ.	20	20	18	15
	Min	12	12	12	8
Output P1dB GCP** (dB)	Typ.	16	16	16	16
	Min	12	12	12	12
Output IP3 (dBm)	Typ.	26	26	26	26
Noise Figure (dB)	Typ.	8	8	8	8

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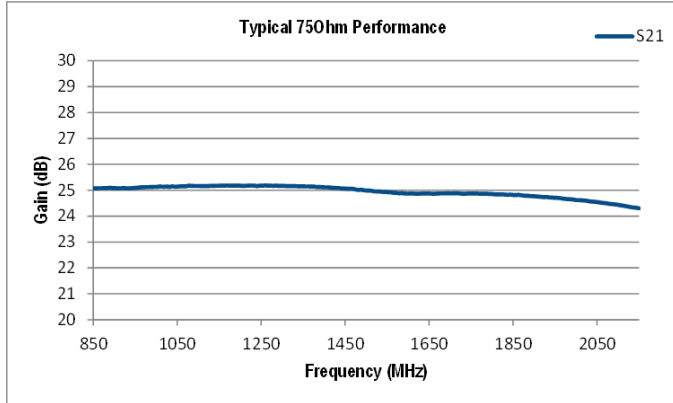
Satellite Teleport



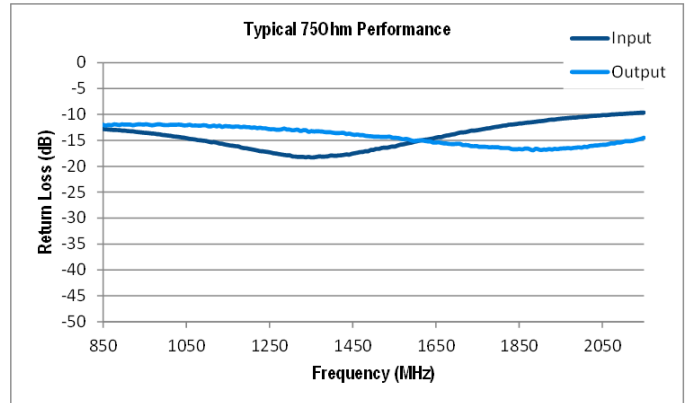


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A-GABL1-3334 Gain (dB)



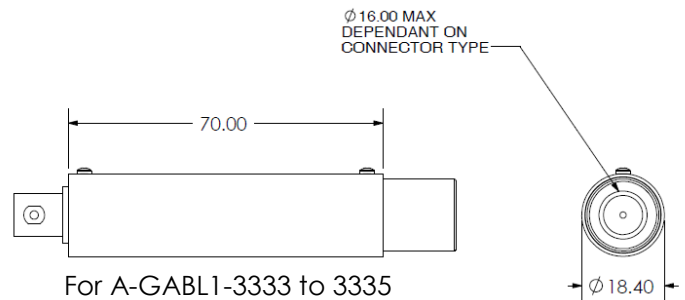
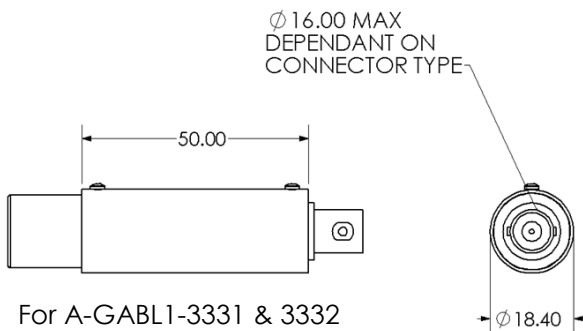
A-GABL1-3334 Return Loss (dB)

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	750mA
DC Consumption		
A-GABL1-3331 & 3332		100mA Max typ 80mA
A-GABL1-3333 to 3335		200mA Max typ 160mA

! 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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