

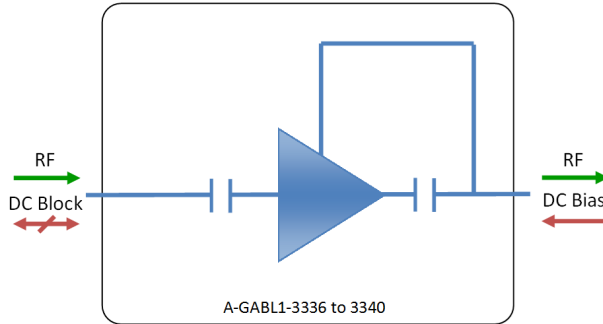


Model Number:  
**A-GABL1-3336 to 3340**

RF Components

# L-Band In Line Amplifier

## 850 to 2150MHz



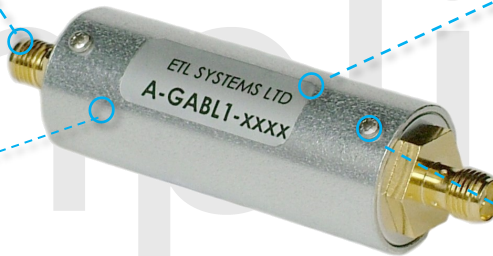
- Tubular with DC block
- Gain options of  $\pm 10$ ,  $\pm 15$  and  $\pm 20$ ,  $\pm 25$  and  $\pm 30$  dB
- In line biased from the output port and require 8 to 24V DC.
- Available with RF connector options:
  - 50  $\Omega$  SMA
  - 50  $\Omega$  N-type
  - 50  $\Omega$  BNC
  - 75  $\Omega$  BNC
  - 75  $\Omega$  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-GABL1-3336	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850-2150 MHz					
RF Connectors	50 $\Omega$ SMA	50 $\Omega$ N-Type	50 $\Omega$ BNC	75 $\Omega$ BNC	75 $\Omega$ F-Type	
Gain (dB)	10 $\pm$ 0.50	10 $\pm$ 0.50	10 $\pm$ 0.60	10 $\pm$ 0.75	10 $\pm$ 0.75	
Flatness (dB)	$\pm$ 0.8	$\pm$ 0.8	$\pm$ 0.8	$\pm$ 0.9	$\pm$ 0.9	
Input Return Loss (dB)	Typ.	20	20	18	14	14
	Min.	15	15	14	8	8
Output Return Loss (dB)	Typ.	20	20	18	14	14
	Min.	15	15	14	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.	10	10	10	10	10

\*\*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-GABL1-3336 to 3340**  
*L-Band In Line Amplifier*

RF Parameters					
A-GABL1-3337	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 ±0.50	15 ±0.50	15 ±0.60	15 ±0.75	15 ±0.75
Flatness (dB)	± 0.8	± 0.8	± 0.8	± 0.9	± 0.9
Input Return Loss (dB)	Typ.	20	20	18	14
	Min.	15	15	14	8
Output Return Loss (dB)	Typ.	20	20	18	14
	Min.	15	15	14	8
Output P1dB GCP** (dB)	Typ.	18	18	18	18
	Min.	15	15	15	15
Output IP3 (dBm)	Typ.	27	27	27	27
Noise Figure (dB)	Typ.	8	8	8	8

RF Parameters					
A-GABL1-3338	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 ±0.50	20 ±0.50	20 ±0.60	20 ±0.75	20 ±0.75
Flatness (dB)	± 0.8	± 0.8	± 0.8	± 0.9	± 0.9
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**



**Marine Oil & Gas**



**SNG & VSAT**



**Satellite Teleport**





RF Components

Model Number:  
**A-GABL1-3336 to 3340**  
*L-Band In Line Amplifier*

RF Parameters						
A-GABL1-3339	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 ±0.50	25 ±0.50	25 ±0.60	25 ±0.75	25 ±0.75	
Flatness (dB)	± 0.6	± 0.6	± 0.6	± 0.7	± 1.0	
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.	14	14	14	14	16
	Min	10	10	10	10	10
Output IP3 (dBm)	Typ.	26	26	26	26	26
Noise Figure (dB)	Typ.	10	10	10	10	10

RF Parameters						
A-GABL1-3340	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 ±0.50	30 ±0.50	30 ±0.60	30 ±0.75	30 ±0.75	
Flatness (dB)	± 0.6	± 0.6	± 0.6	± 0.7	± 1.0	
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.	16	16	16	16	16
	Min	12	12	12	12	12
Output IP3 (dBm)	Typ.	26	26	26	26	26
Noise Figure (dB)	Typ.	8	8	8	8	8

**Broadcast**



**Marine Oil & Gas**



**SNG & VSAT**



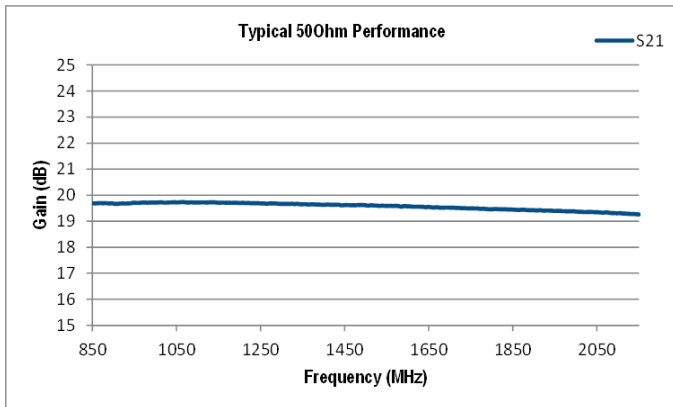
**Satellite Teleport**



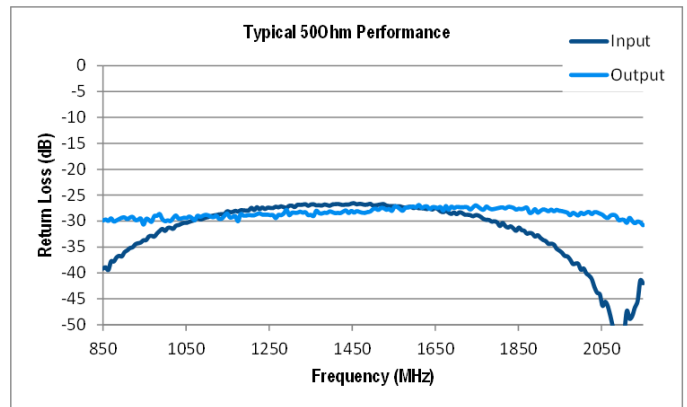


RF Components

Model Number:  
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*L-Band In Line Amplifier*



A-GABL1-3338 Gain (dB)



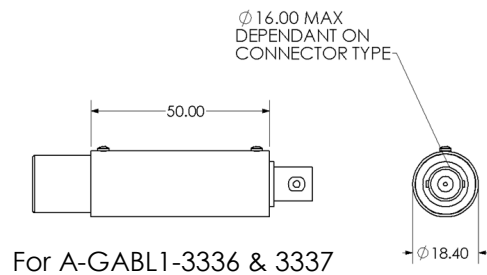
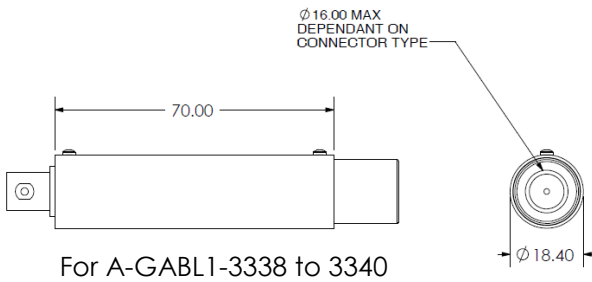
A-GABL1-3338 Return Loss (dB)

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-GABL1-3336 & 3337		100mA Max typ 80mA
A-GABL1-3338 to 3340		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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