

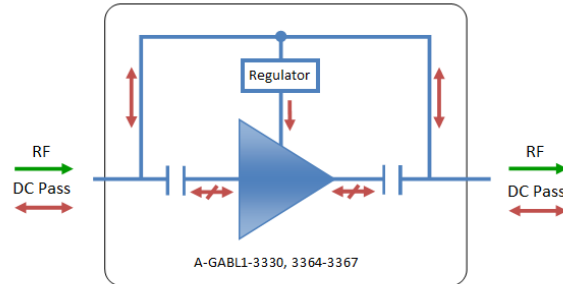


Model Number:
A-GABL1-3330 3364-3367

RF Components

L-Band In Line Amplifier

850 to 2150MHz



- +3dB of positive slope over 850 to 2150MHz
- Gain options of +10, +15 and +20, +25 and +28dB
- Passes DC between the input and output port.
- Requires 8-24V DC bias from either input or output port
- Available with RF connector options:
 - 50 Ω SMA
 - 50 Ω N-type
 - 50 Ω BNC
 - 75 Ω BNC
 - 75 Ω F-type

Requires
8-24V DC Bias

850-2150 MHz
Operating frequency range.

Compact

Housed in rugged compact enclosure

Flexible Mounting

Tapped screw & through hole mounting options



RF Parameters					
A-GABL1-3330	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)	10 ±1.0	10 ±1.0	10 ±1.0	10 ±1.0	10 ±1.0
Slope	+3 dB	+3 dB	+3 dB	+3 dB	+3 dB
Input Return Loss (dB)	Typ.	15	15	14	12
	Min.	10	10	10	8
Output Return Loss (dB)	Typ.	20	20	20	14
	Min.	14	14	14	8
Output P1dB GCP** (dB)	Typ.	12	12	12	12
	Min.	8	8	8	8
Output IP3 (dBm)	22	22	22	22	22
Noise Figure (dB)	15	15	15	15	15

**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-GABL1-3330 3364-3367
L-Band In Line Amplifier

RF Parameters					
A-GABL1-3364	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 ±1.0	15 ±1.0	15 ±1.0	15 ±1.0	15 ±1.0
Slope	+3 dB	+3 dB	+3 dB	+3 dB	+3 dB
Input Return Loss (dB)	Typ.	15	15	14	12
	Min.	10	10	10	8
Output Return Loss (dB)	Typ.	20	20	20	14
	Min.	14	14	14	8
Output P1dB GCP** (dB)	Typ.	12	12	12	12
	Min.	8	8	8	8
Output IP3 (dBm)	22	22	22	22	22
Noise Figure (dB)	12	12	12	12	12

RF Parameters					
A-GABL1-3365	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 ±1.0	20 ±1.0	20 ±1.0	20 ±1.0	20 ±1.0
Slope	+3 dB	+3 dB	+3 dB	+3 dB	+3 dB
Input Return Loss (dB)	Typ.	15	15	14	12
	Min.	10	10	10	8
Output Return Loss (dB)	Typ.	20	20	20	16
	Min.	14	14	14	12
Output P1dB GCP** (dB)	Typ.	12	12	12	12
	Min.	8	8	8	8
Output IP3 (dBm)	22	22	22	22	22
Noise Figure (dB)	10	10	10	10	10

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RF Components

Model Number:
A-GABL1-3330 3364-3367
L-Band In Line Amplifier

SRF Parameters					
A-GABL1-3366	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 ±1.0	25 ±1.0	25 ±1.0	25 ±1.0	25 ±1.0
Slope	+3 dB	+3 dB	+3 dB	+3 dB	+3 dB
Input Return Loss (dB)	Typ.	15	15	14	12
	Min	10	10	10	8
Output Return Loss (dB)	Typ.	20	20	20	14
	Min	14	14	12	8
Output P1dB GCP** (dB)	Typ.	12	12	12	12
	Min	8	8	8	8
Output IP3 (dBm)	22	22	22	22	22
Noise Figure (dB)	9	9	9	9	9

RF Parameters					
A-GABL1-3367	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)	28 ±2.0	28 ±2.0	28 ±2.0	28 ±2.0	28 ±2.0
Slope	+3 dB	+3 dB	+3 dB	+3 dB	+3 dB
Input Return Loss (dB)	Typ.	15	15	14	12
	Min	10	10	10	8
Output Return Loss (dB)	Typ.	20	20	20	14
	Min	14	14	12	8
Output P1dB GCP** (dB)	Typ.	12	12	12	12
	Min	8	8	8	8
Output IP3 (dBm)	22	22	22	22	22
Noise Figure (dB)	9	9	9	9	9

Broadcast



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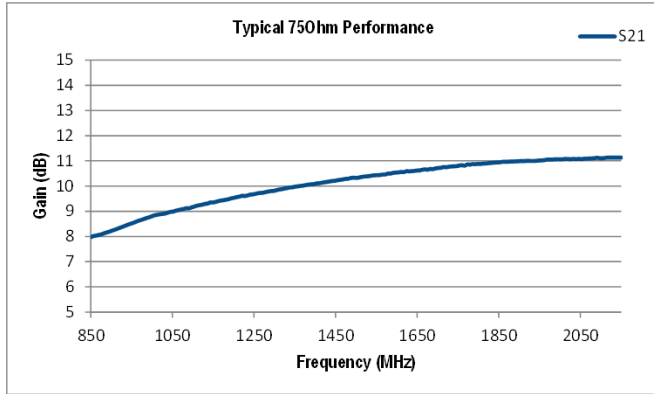
SNG & VSAT



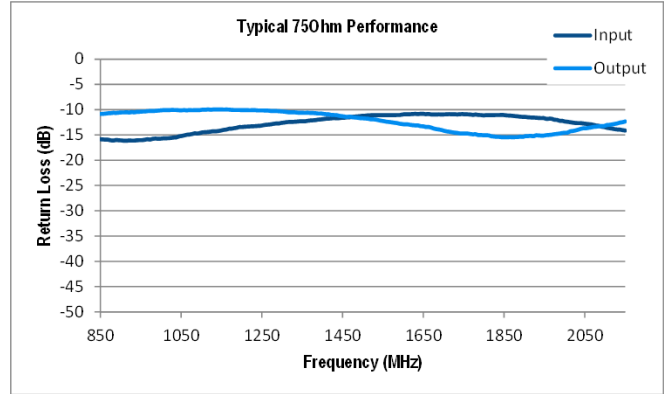
Satellite Teleport



A-GABL1-3330



Gain (dB)



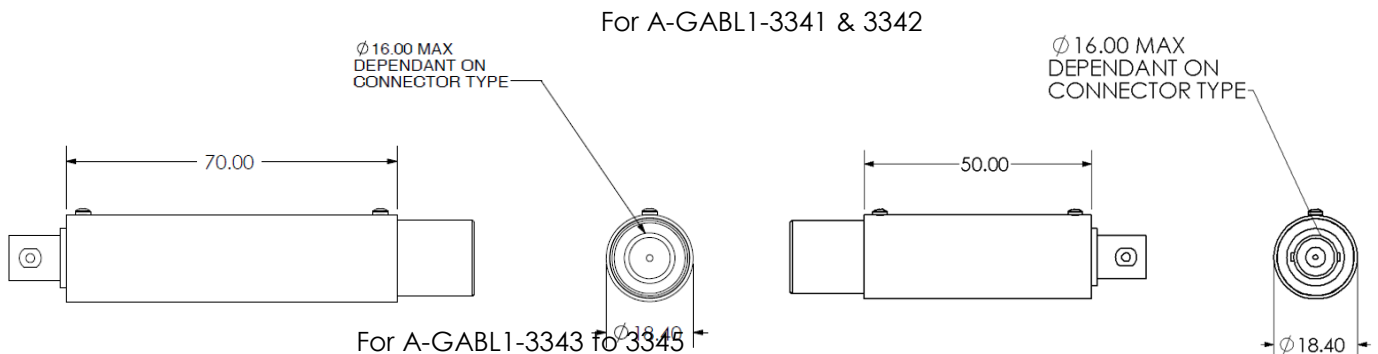
Return Loss (dB)

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		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.