

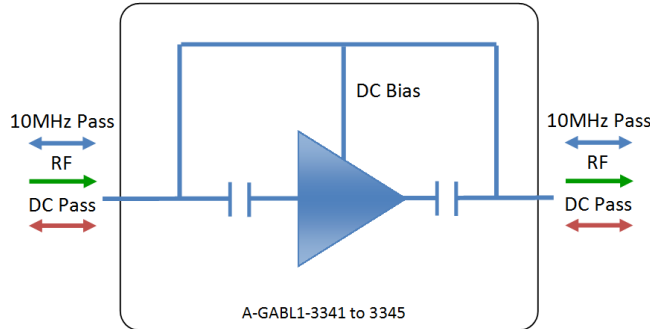


RF Components

L-Band In Line Amplifier

850 to 2150MHz

Model Number:
A-GABL1-3341 to 3345



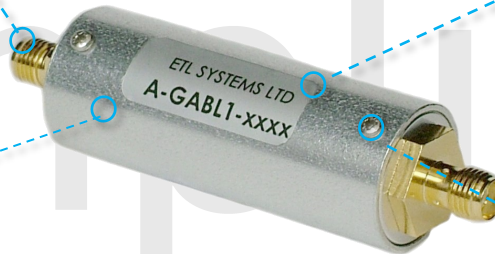
- Tubular with DC & 10MHz Pass
- Gain options of ± 10 , ± 15 and ± 20 , ± 25 and ± 30 dB
- In line biased from either port and require 8 to 24V DC.
- Available with RF connector options:
 - 50 Ω SMA
 - 50 Ω N-type
 - 50 Ω BNC
 - 75 Ω BNC
 - 75 Ω F-type

8-24V
In line DC biased

Compact
Housed in rugged compact enclosure

Flexible Mounting
Tapped screw & through hole mounting options

850-2150 MHz
Operating frequency range.



RF Parameters						
A-GABL1-3341	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 1.0	10 \pm 1.0	10 \pm 1.0	10 \pm 1.5	10 \pm 1.5	
Input Return Loss (dB)	Typ.	22	22	18	15	12
	Min.	16	16	16	8	8
Output Return Loss (dB)	Typ.	20	20	18	15	15
	Min.	16	16	16	8	8
Output P1dB GCP** (dB)	Typ.	12	12	12	12	12
	Min.	8	8	8	8	8
Output IP3 (dBm)	Typ.	22	22	22	22	22
Noise Figure (dB)	Typ.	12	12	12	12	12

**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-GABL1-3341 to 3345
L-Band In Line Amplifier

RF Parameters					
A-GABL1-3342	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 ±1.0	15 ±1.0	15 ±1.0	15 ±1.5	15 ±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.	18	18	18	18
	Min.	14	14	14	14
Output IP3 (dBm)	Typ.	26	26	26	26
Noise Figure (dB)	Typ.	9	9	9	9

RF Parameters					
A-GABL1-3343	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 ±1.0	20 ±1.0	20 ±1.0	20 ±1.5	20 ±1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min.	14	14	14	8
Output Return Loss (dB)	Typ.	20	20	18	15
	Min.	16	16	16	8
Output P1dB GCP** (dB)	Typ.	13	13	13	13
	Min.	10	10	10	10
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-GABL1-3341 to 3345
L-Band In Line Amplifier

RF Parameters					
A-GABL1-3344	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 ±1.0	25 ±1.0	25 ±1.0	25 ±1.5	25 ±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.	10	10	10	10

RF Parameters					
A-GABL1-3345	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 ±1.0	30 ±1.0	30 ±1.0	30 ±1.5	30 ±1.5
Input Return Loss (dB)	Typ.	22	22	18	15
	Min	12	12	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

Broadcast



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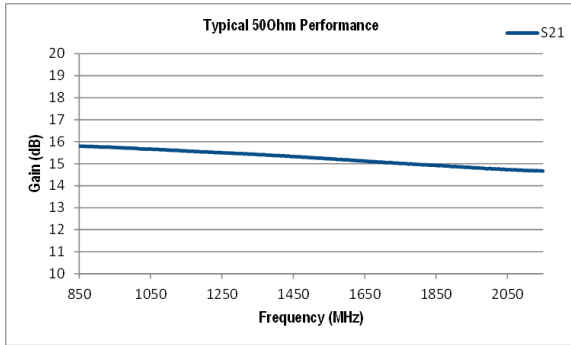
Satellite Teleport



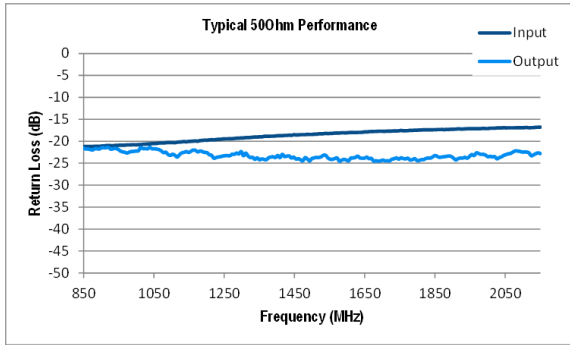


RF Components

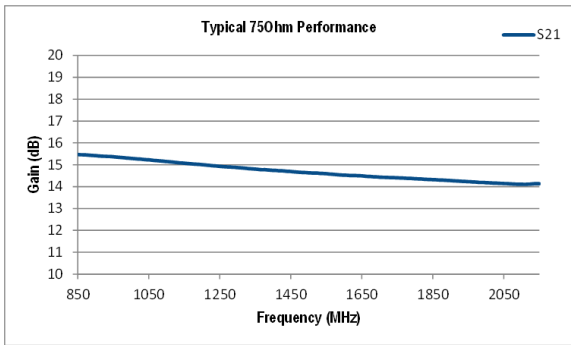
A-GABL1-3342



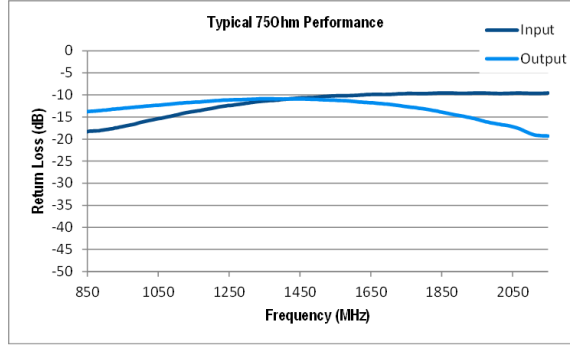
Gain (dB)



Return Loss (dB)

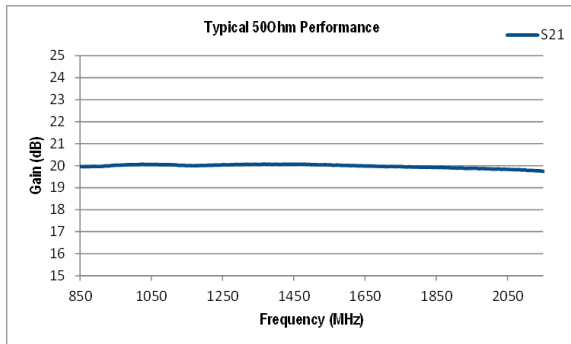


Gain (dB)

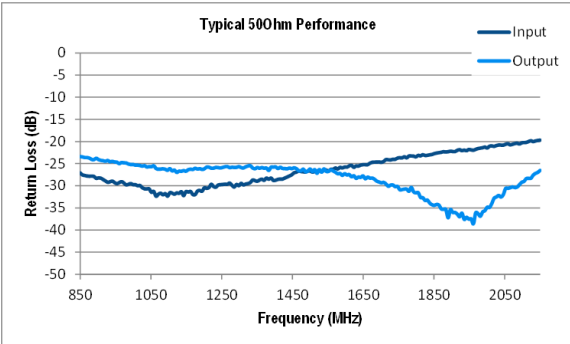


Return Loss (dB)

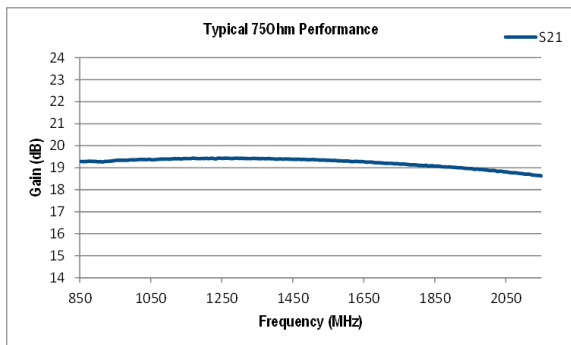
A-GABL1-3343



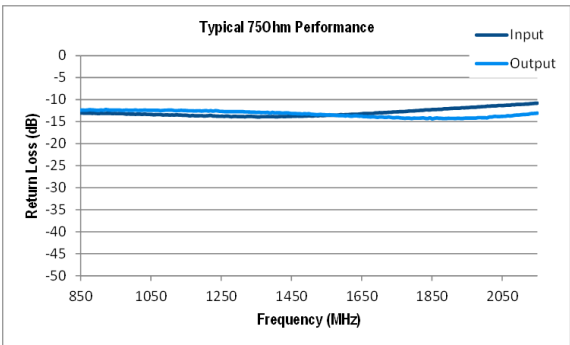
Gain (dB)



Return Loss (dB)



Gain



Return Loss

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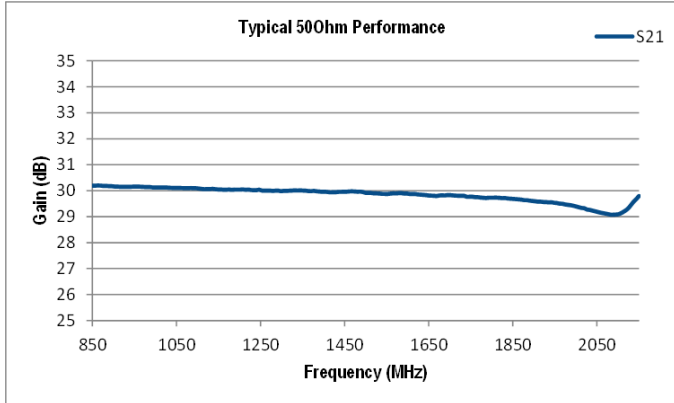
Satellite Teleport



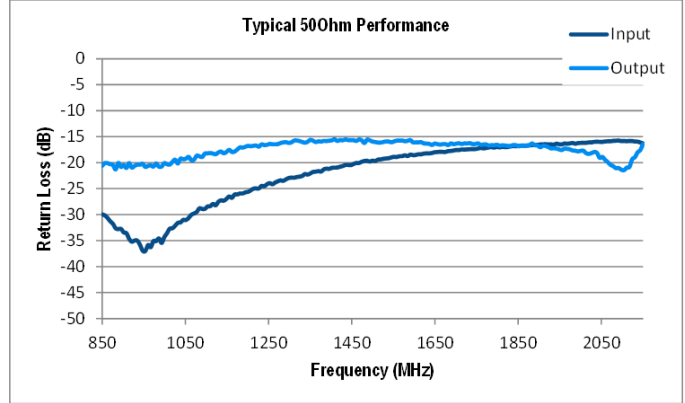


RF Components

A-GABL1-3345



Gain (dB)



Return Loss (dB)

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RF Components

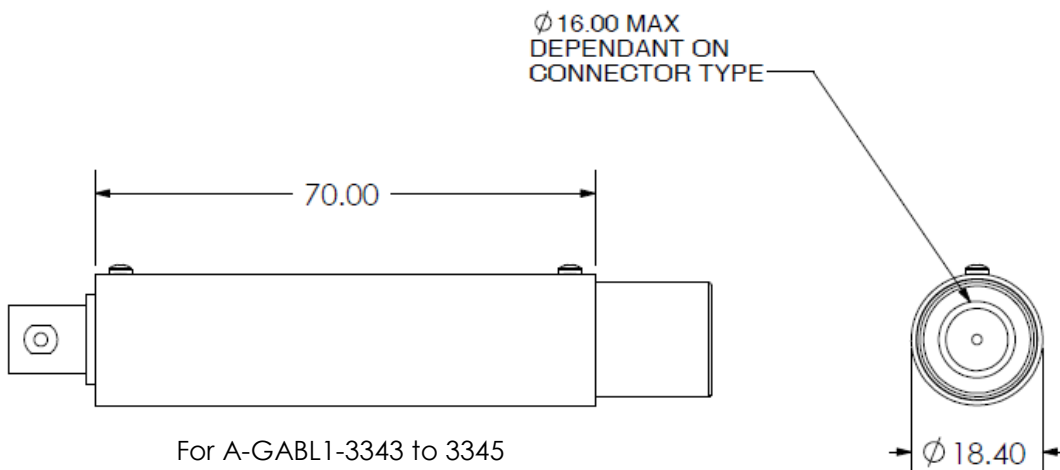
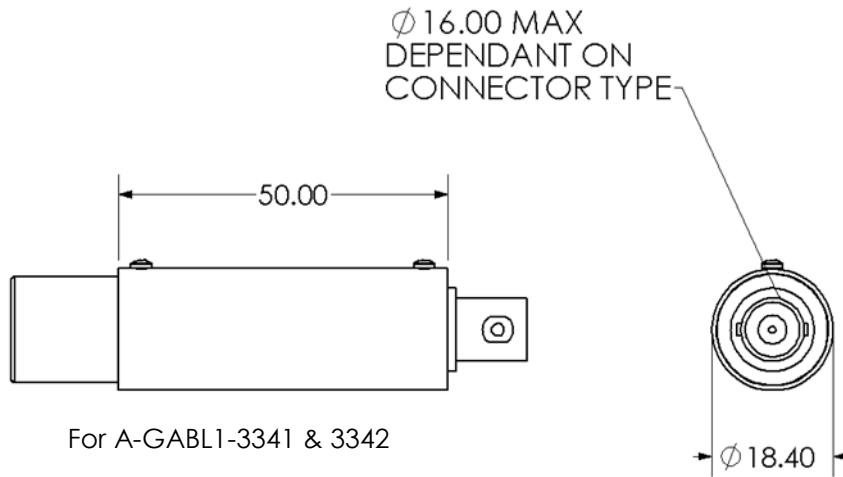
Model Number:
A-GABL1-3341 to 3345
L-Band In Line Amplifier

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-GABL1-3341 & 3342		100mA Max typ 80mA
A-GABL1-3343 to 3345		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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