

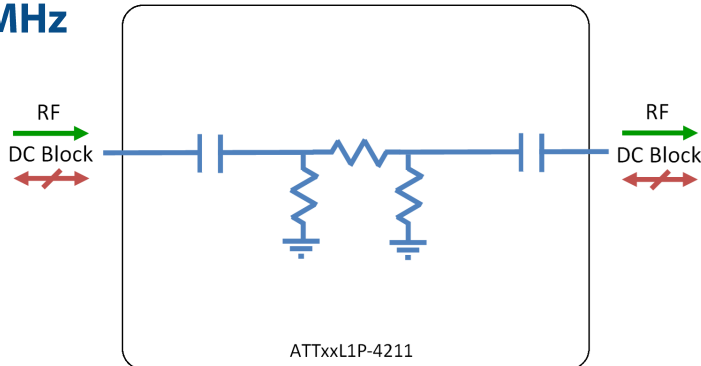


Model Number:  
**ATTxxL1P-4211**

RF Components

# L-Band Attenuator


850 - 2150 MHz



- All ports DC blocked
- 3, 6, 10 or 20dB attenuation

Available with RF connector options:

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

 **850-2150 MHz**  
Operating frequency range. L-Band ready



**Compact**  
Housed in rugged compact enclosure

# Attenuator

RF Parameters						
ATT03L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850 - 2150 MHz					
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Attenuation (dB)	Typ. 3 ± 0.5	3 ± 0.5	3 ± 0.5	3 ± 0.8	3 ± 0.8	
Flatness ± (dB)	0.25	0.25	0.25	0.25	0.25	
Input Return Loss (dB)	Typ. 18	18	16	12	12	
	Min 14	14	12	8	8	
Output Return Loss (dB)	Typ. 18	18	16	12	12	
	Min 14	14	12	8	8	

**Broadcast**



**Marine Oil & Gas**



**SNG & VSAT**



**Satellite Teleport**





RF Components

Model Number:  
**ATTxxL1P-4211**  
*L-Band Attenuator*

RF Parameters					
ATT05L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	5 ± 0.5	5 ± 0.5	5 ± 0.5	5 ± 0.8	5 ± 0.8
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

RF Parameters					
ATT06L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	6 ± 0.5	6 ± 0.5	6 ± 0.5	6 ± 0.8	6 ± 0.8
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

RF Parameters					
ATT10L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	10 ± 0.8	10 ± 0.8	10 ± 0.8	10 ± 1.30	10 ± 1.30
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

**Broadcast**



**Marine Oil & Gas**



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**Satellite Teleport**





RF Components

Model Number:  
**ATTxxL1P-4211**  
L-Band Attenuator

RF Parameters					
ATT15L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	15 ± 0.8	15 ± 0.8	15 ± 0.8	15 ± 1.30	15 ± 1.30
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

RF Parameters					
ATT20L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	20 ± 0.8	20 ± 0.8	20 ± 0.8	20 ± 1.30	20 ± 1.30
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

RF Parameters					
ATT25L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850 - 2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation (dB)	25 ± 0.8	25 ± 0.8	25 ± 0.8	25 ± 1.50	25 ± 1.50
Flatness ± (dB)	Typ. 0.25	0.25	0.25	0.25	0.25
Input Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8
Output Return Loss (dB)	Typ. 18	18	16	12	12
	Min 14	14	12	8	8

**Broadcast**



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**Technical specifications and operating parameters**

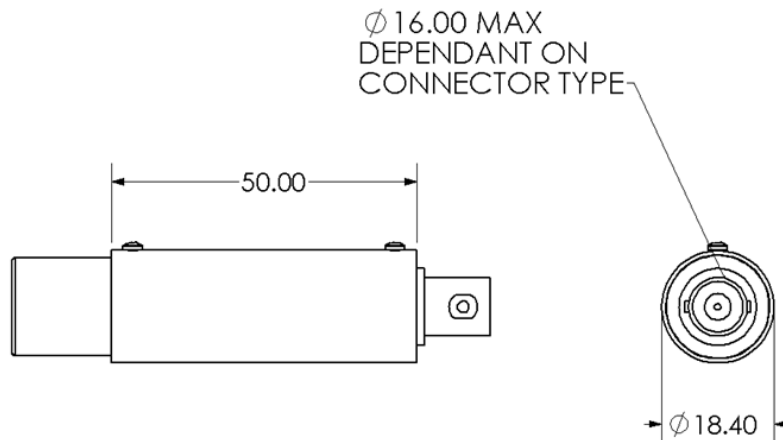
RF Parameters						
ATT30L1P-4211-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850 - 2150 MHz					
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Attenuation (dB)	30 ± 1.2	30 ± 1.2	30 ± 1.2	30 ± 1.8	30 ± 1.8	
Flatness ± (dB)	Typ.					
Input Return Loss (dB)	Typ.	18	18	16	12	12
	Min	14	14	12	8	8
Output Return Loss (dB)	Typ.	18	18	16	12	12
	Min	14	14	12	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	+21 dBm (125mW)
DC Voltage	35V on any RF port

**!** 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.