



ATTxxL1P-4216

RF Engineering & Custom Build

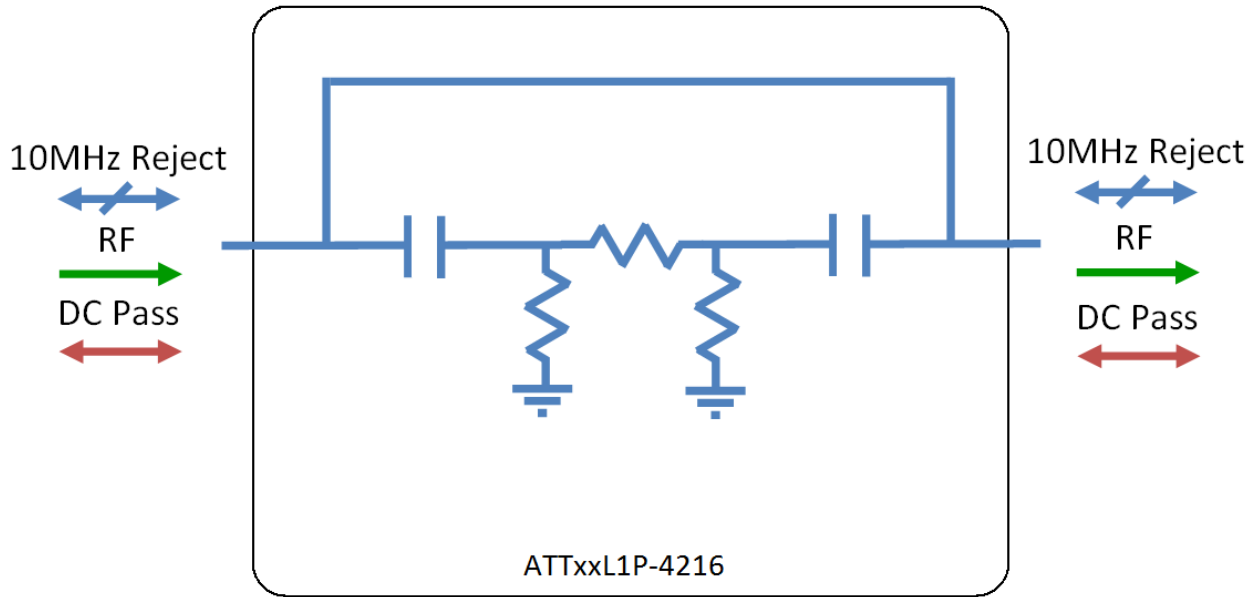
L Band Attenuator

ATTxx-L1P-4216 are a range of tubular attenuators with 3,6,10 or 20dB Attenuation with DC pass and 10MHz block.



This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.

Vector diagram



RF Parameters

ATT03L1P-4216-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation	3 ±0.5 dB	3 ±0.5 dB	3 ±0.5 dB	3 ±0.8 dB	3 ±0.8 dB
Input Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min

10MHz Insertion loss is approximately 30dB

BROADCAST



MARINE OIL & GAS



SNG & VSAT



SATELLITE TELEPORT





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RF Parameters

ATT06L1P-4216-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation	6 ±0.5 dB	6 ±0.5 dB	6 ±0.5 dB	6 ±0.8 dB	6 ±0.8 dB
Input Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min

10MHz Insertion loss is approximately 30dB

RF Parameters

ATT10L1P-4216-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation	10 ±0.8 dB	10 ±0.8 dB	10 ±0.8 dB	10 ±1.3 dB	10 ±1.3 dB
Input Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min

10MHz Insertion loss is approximately 30dB

RF Parameters

ATT20L1P-4216-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Attenuation	20 ±0.8 dB	20 ±0.8 dB	20 ±0.8 dB	20 ±1.3 dB	20 ±1.3 dB
Input Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	18 dB typ	18 dB typ	16 dB typ	12 dB typ	12 dB typ
	14 dB min	14 dB min	12 dB min	8 dB min	8 dB min

10MHz Insertion loss is approximately 30dB

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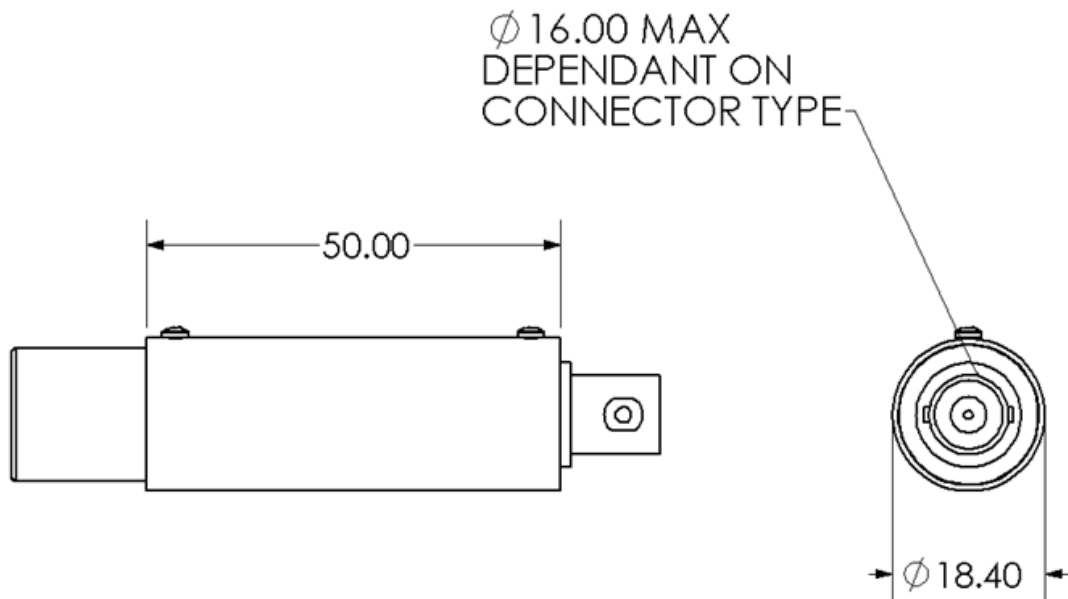
L Band Attenuator

Environmental	
Operating Temperature	0°C to 45°C
Storage Temperature	-20°C to +75°C
Location	Indoor use Only
Humidity	85% non-condensing
Altitude	10,000 feet

Max Operating Parameters	
Input RF Power	+21 dBm (125mW)
DC Voltage	35V on any RF port
DC Current	1A Max

! Operation beyond these limits may cause instantaneous and permanent damage.

Physical dimensions



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Feature set for alternative L-Band Attenuators

Model Number	Attenuation Range (dB)	Frequency (MHz)	Other Features	Comments
ATTxxL1P-4211	3, 6, 10, 20	850-2150	All RF ports DC blocked	Can be available with male connectors
ATTxxL1P-4212	3, 6, 10, 20	850-2150	All RF ports DC pass	Can be available with male connectors
ATTxxL1P-4213	3, 6, 10, 20	850-2150	All RF ports are DC blocked and 10 MHz pass	Can be available with male connectors
ATTxxL1P-4214	3, 6, 10, 20	850-2150	All RF ports are DC Pass and 10 MHz pass.	Can be available with male connectors
ATTxxL1P-4215	3, 6, 10, 20	850-2150	All RF ports are DC blocked and 10 MHz reject.	Can be available with male connectors
ATTxxL1P-4216	3, 6, 10, 20	850-2150	All RF ports are DC pass and 10 MHz reject.	Can be available with male connectors

* Custom designs available on request

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