

INLINE AMPLIFIERS



As with any electromagnetic radio wave, GNSS signals become attenuated as they are passed through electrical cable. The amount of signal loss depends on the type and length of the cable used. Typically, when antenna cable runs exceed 50 feet, signal loss can become excessive. Our StarLink™ inline amplifiers eliminate this problem by amplifying the GNSS signal. This includes GPS, GLONASS, GALILEO, BEIDOU, SBAS and L-BAND. With the correct amplifier, you can extend your antenna cable runs to hundreds of feet.



GNSS receivers also suffer from the effects of Electromagnetic interference (EMI). EMI, which can originate from an external source or even from within the receiver itself. Our inline amplifiers filter and reject unwanted interference and allow GNSS signals to pass through. By amplifying and filtering the GNSS signal before it gets to the receiver, the effect of internally generated electrical noise is reduced.

The inline amplifiers are capable of amplifying all GNSS frequencies and will vastly improve performance on receivers with cable lengths of over 50 ft. StarLink amplifiers are available with SMA, TNC, BNC, or N connectors and no special wiring is required, making installation convenient.

The amplifiers are made with gold plated brass with rugged and watertight packaging. Just plug the amplifier directly in line with your antenna cable. Power to the inline amplifier is already available from your GPS receiver, the inline amplifier uses the same power as the antenna so no extra wiring is required. As with all our products, our inline amplifiers come with a full one year parts and labour warranty.

INLINE AMPLIFIERS SPECIFICATIONS



GENERAL INFORMATION

Inline Amplifiers with TNC connectors are 3.770" in length.
Length will vary slightly with "N" and "SMA" connectors installed.

Power consumption 8mA.

- Typical Noise figure for L1 Inline Amplifiers is < 3 dB.
- Typical Noise figure for L1L2 Inline Amplifiers is < 4 dB.
- Input voltage for all models is from 3 to 28 VDC. Current draw is < 10 ma .
- Operating temperature is -55°C (-67°F) to +70°C (158°F)
- Storage temperature is -55°C (-67°F) to +85°C (185°F)
- Relative humidity 0 - 100% condensing.
- IP Rating: IP67

MODEL CONNECTORS
(GPS L1/L2, GLONASS, GALILEO, BEIDOU, SBAS, L-BAND)

12db Gain

LA-12-L1L2-N	N type, female
LA-12-L1L2-S	SMA type, female
LA-12-L1L2-B	BNC type, female
LA-12-L1L2-T	TNC type, female
LA-12-L1L2-TMF	TNC type, male to female
LA-12-L1L2-BT	BNC type to TNC type female
LA-12-L1L2-TS	TNC type to SMA type female

21db Gain

LA-21-L1L2N	N type, female
LA-21-L1L2S	SMA type, female
LA-21-L1L2B	BNC type, female
LA-21-L1L2T	TNC type, female
LA-21-L1L2-TMF	TNC type, male to female
LA-21-L1L2-BT	BNC type to TNC type female
LA-21-L1L2-TS	TNC type to SMA type female

MODEL CONNECTORS
(GPS L1, GALILEO E1)

12db Gain

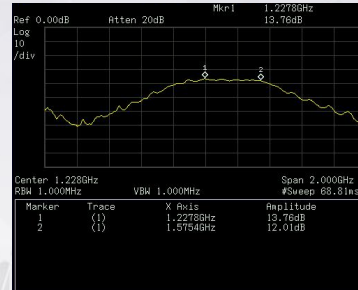
LA-12-1575-100-N	N type female both ends
LA-12-1575-100-S	SMA type female both ends
LA-12-1575-100-T	TNC type female both ends
LA-12-1575-100-B	BNC type, female
LA-12-1575-100-TMF	TNC type, male to female
LA-12-1575-100-BT	BNC type to TNC type female
LA-12-1575-100-TS	TNC type to SMA type female

21db Gain

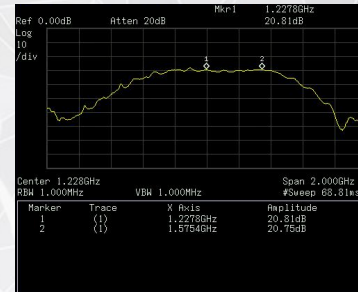
LA-21-1575-100-N	N type female both ends
LA-21-1575-100-S	SMA type female both ends
LA-21-1575-100-T	TNC type female both ends
LA-21-1575-100-B	BNC type, female
LA-21-1575-100-TMF	TNC type, male to female
LA-21-1575-100-BT	BNC type to TNC type female
LA-21-1575-100-TS	TNC type to SMA type female

GAIN PLOTS

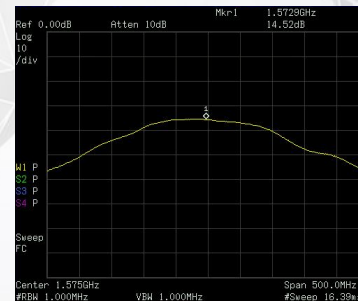
L1L2-12db



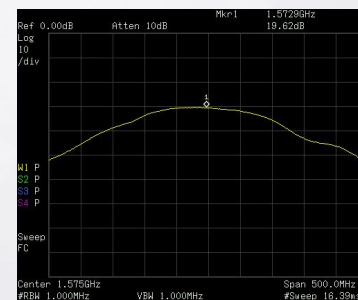
L1L2-21db



L1-12db



L1-21db



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