Inline Amplifiers

LA series of Inline Amplifiers

StarLink

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. The inline amplifiers eliminate this problem by amplifying the GNSS signal. This includes GPS, GLONASS, GALILEO, BEIDOU, SBAS and L-BAND. With the proper amplifier, you can extend your antenna cable runs to hundreds of feet.

GNSS receivers also suffer from the effects of EMI. Electromagnetic interference can originate from an external source or even from within the receiver itself. Our inline amplifiers filter and reject unwanted interference and pass GNSS signals 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 improve performance on receivers with cable lengths of over 50 ft. They're available with SMA, TNC, BNC, or N connectors and no special wiring is required, making installation a breeze.

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.

Forsberg Services Ltd
Richmond House, White Cross, Lancaster, LA1 4XF, UK
Phone: +44 (0) 1524 383320
Fax: +44 (0) 1524 382939
Web: http://www.forsbergservices.co.uk

Forsberg Services Ltd (Deutschland)
Hülshagen 68, 31714 Lauenhagen, Germany
Phone: +49 9367 987 8080
Fax: +49 9367 987 8084
Web: http://www.forsbergservices.de

Inline Amplifiers

LA series of Inline Amplifiers

GENERAL INFORMATION

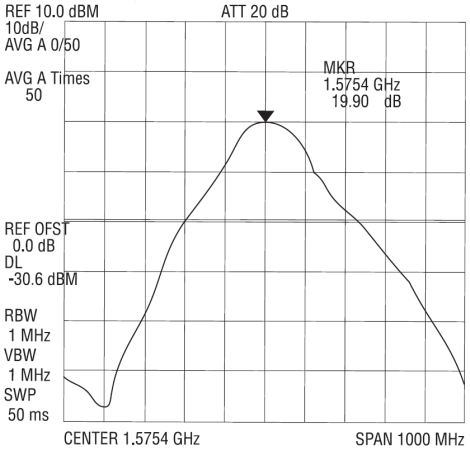
Inline Amplifiers with TNC connectors are 3.770” in length. Length will vary slightly with “N” and “SMA” connectors installed. Power consumption 8mA.

- 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

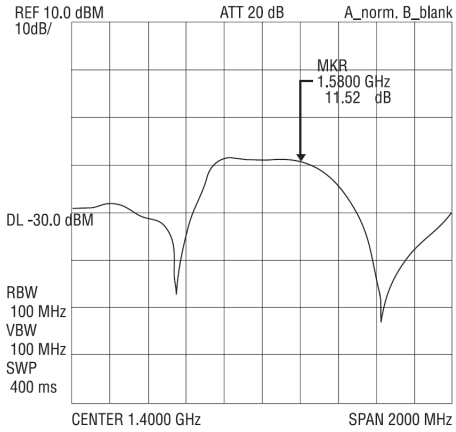
MODEL	CONNECTORS
GPS L1/L2, GLONASS, GALILEO, BEIDOU, SBAS, L-BAND	
12db Gain	
LA-12-L1L2N	N type, female
LA-12-L1L2S	SMA type, female
LA-12-L1L2B	BNC type, female
LA-12-L1L2T	TNC type, female
21db Gain	
LA-21-L1L2N	N type, female
LA-21-L1L2S	SMA type, female
LA-21-L1L2B	BNC type, female
LA-21-L1L2T	TNC type, female

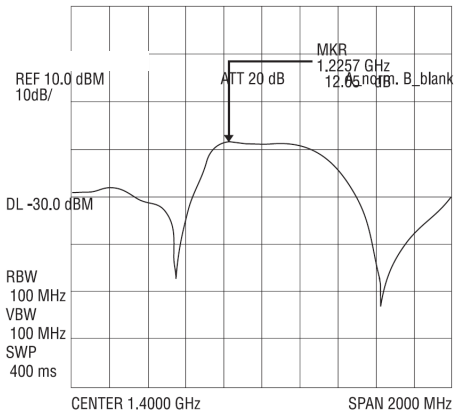
MODEL (L1 FREQ.)	CONNECTORS
12db Gain	
LA-12-1575-100N	N type female both ends
LA-12-1575-100S	SMA type female both ends
LA-12-1575-100T	TNC type female both ends
LA-12-1575-100NS	N one side, SMA the other
LA-12-1575-100NT	N one side, TNC the other
LA-12-1575-100ST	SMA one side, TNC the other
LA-21-1575-100N	N type female both ends
21db Gain	
LA-21-1575-100S	SMA type female both ends
LA-21-1575-100T	TNC type female both ends
LA-21-1575-100NS	N one side, SMA the other
LA-21-1575-100NT	N one side, TNC the other
LA-21-1575-100ST	SMA one side, TNC the other

LA-12db 1575Mhz



Typical Filtered Line Amp
Freq vs. Gain Plot





Note: LA-12-L1/L2 12dB shown.
LA-21-L1/L2 is the same except for gain.

STARLINK

Forsberg Services Ltd
Richmond House, White Cross, Lancaster, LA1 4XF, UK
Phone: +44 (0) 1524 383320
Fax: +44 (0) 1524 382939
Web: http://www.forsbergservices.co.uk

Forsberg Services Ltd (Deutschland)
Hülshagen 68, 31714 Lauenhagen, Germany
Phone: +49 9367 987 8080
Fax: +49 9367 987 8084
Web: http://www.forsbergservices.de