

Inline Amplifiers

LA series of 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. 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>

V1.02

Forsberg Services Ltd (Deutschland)

Hülshagen 68, 31714 Lauenhagen, Germany

Phone: +49 9367 987 8080

Fax: +49 9367 987 8084

Web: <http://www.forsbergservices.de>

PIONEERING SOLUTIONS IN NAVIGATION TECHNOLOGY

www.forsbergservices.co.uk

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

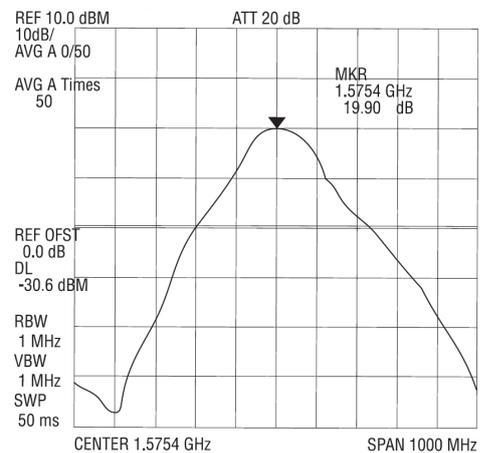
12db Gain

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

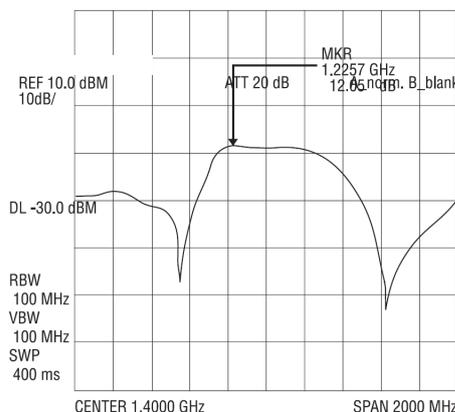
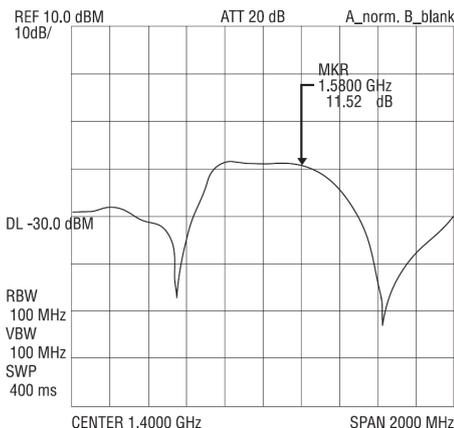
21db Gain

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.



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>

V1.02

Forsberg Services Ltd (Deutschland)

Hülshagen 68, 31714 Lauenhagen, Germany
Phone: +49 9367 987 8080

Fax: +49 9367 987 8084

Web: <http://www.forsbergservices.de>

PIONEERING SOLUTIONS IN NAVIGATION TECHNOLOGY

www.forsbergservices.co.uk