



A11XL-F1 Low Noise Amplifier

Description:

Ideal for GPS distribution networks where a high gain is required, the A11XL-F1 is a Low Noise Amplifier with a powerful 40 dB gain.

Designed specifically for GPS applications, the A11XL-F1 has provisions for supplying the DC Voltage for the active antenna when using the external AC Input Option.

The included L1 or optional L1 / L2 Filtering protects your GPS network against unwanted interferences. The product may be powered externally with an AC input voltage option, or it may be powered by a GPS receiver's antenna output voltage.

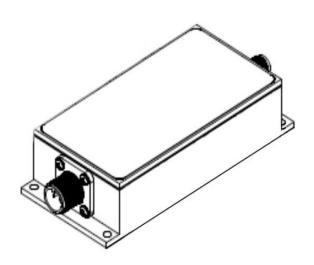
The A11XL-F1 comes with many available options to meet your specific needs. Please call, fax or mail us (vertrieb@aucon.de) for further information on product options and specifications.

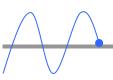
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A11XL-F1

Features:

- High Gain = 40 dB
- Low Noise Figure = F < 2.2 dB
- L1 Filtering for interference rejection
- Responses to GPS L1 or L1 / L2
- Optional L1 / L2 Filtering available
- Power Supply Options available
- Can Supply antenna Source Voltage







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RF PORTS

ELECTRICAL SPECIFICATION

> Input/Output Impedance

> Bandwith
L1 Filtering
1.565 -1.585 GHz
L1 / L2 Filtering
1.565 -1.585 GHz

50 Ω

1.217 -1.237 GHz > Gain

 Standard
 40 dB

 Custom
 0 – 37 dB

Custom 0 – 37
> SWR Input / Output 2.0 : 1
> Rejection

> Noise Figure

@ -40°C
 @ +25°C
 @ +85°C
 OP3
 IIP3
 1.6 dB min.
 2.1 dB typ.
 2.2 dB max.
 5 dB
 35.5 dB

> DC Input Level

External Supply 5-28 V DCOptional DC Input on IN Port 3-16 V DC

>Current

Amplifier Device Current 26 mA max.
Thru Current (nonpowered) 250 mA max.

Thru Current (external powered) =

 $(V_{DCIN} - V_{DCOUT} - 1.2) * (I_{OUT} + I_{internal}) 1W =< @25 C$ For powered option with a wall transformer,

 $V_{DC\ IN}$ is 9V.

PHYSICAL SPECIFICATION

> RF connectors

N (m, f) SMA (m, f) TNC (m, f) BNC (m, f)

> Operating Temperature -40 to 85°C > Size (W x H x D) 140 x 32 x 64mm

AVAILABE OPTIONS

> Power Supply

-Source Voltage

P110 – Transformator P220 – Transformator

P240 – UK Transformator

PD C – DC w/leads

Tinned Leads (5 – 28 V max.) PM, MS – Military Connector (5 - 28 V max.)

-Output Voltage

3.3, 5, 7.5, 9, 12, variable (3-12 V),

XX (custom output voltage)

- > Standard or Custom Gain (0-37 dB, in 1dB steps)
- > RF Connectors
- > Housing

EMI Shielding

EMI Shielding with Hermetically Sealed

Hermetically Sealed

Waterproof

> Power Switch (On / Off Switch)

> 1275B Specification Rated Available

(Spike and Surge Protection, Specification defines the condition of 28VDC power in military vehicles)

