

LOW NOISE (NF) Power Amplifiers 10W

AMPA-B-40-50.150-LN01



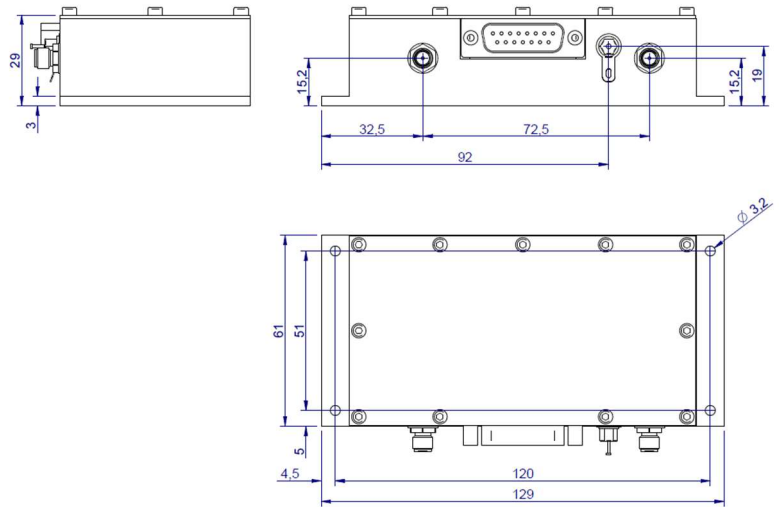
Product Overview

These Power Amplifiers are made for acousto-optic applications for which Noise Figure is a concern. Designed to be low Noise, the frequency range covers 50MHz up to 150 MHz.

In association with a VCO driver or a DDS driver, they will provide the necessary RF power to drive an acousto-optic device up to 10 W. They will be used particularly for quantum computing and low noise applications.

FEATURES

- Large Band
- Suitable for Low Noise AO applications
- RoHS



SPECIFICATIONS (T=25°C)

Parameter	AMPA-B-40-50.150-LN01
Frequency range	50 to 150 MHz
Gain	>55 dB, Nom 56 dB
Gain Flatness	Nom +/-1.5dB
Noise Figure	Nom 5dB
Output RF Power (@1dB compression)	>= 40 dBm (typ 10W)
Input / Output Impedance	50 Ω
Power Supply	24 +/- 0.5 VDC
Max required Current	Typ 2,5 A
Class	A
VSWR	< 1.5/1
Input / Output Connector	SMA / SMA
Size / Weight	129 X 61 X 29 mm ³ / 360 g
Heat Exchange	Conduction through baseplate*
Operating Temperature	-10 to 50 °C (max Tcase 55°C)
Storage Temperature	-40 to +70 °C Non condensing

*Option on request: top heatsink+fan