

LOW NOISE (NF) Power Amplifiers 5-6W

AMPA-B-38-50.350-LN01



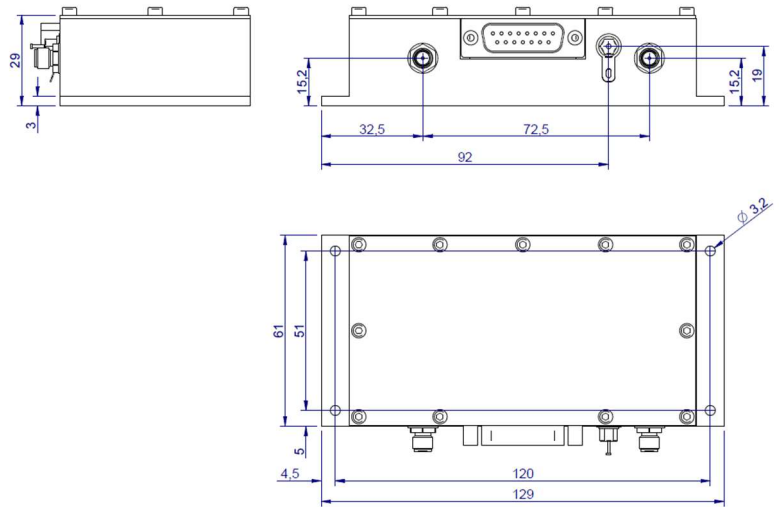
Product Overview

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 350 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 5 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-38-50.350-LN01
Frequency range	50 to 350 MHz
Gain	>50 dB, Nom 52 dB
Gain Flatness	Nom +/-0.5dB
Noise Figure	Nom 3dB
Output RF Power (@1dB compression)	> 37 dBm (Typ 6W)
Input / Output Impedance	50 Ω
Power Supply	24 +/- 0.5 VDC
Max required Current	Typ 900 mA
Class	AB
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