

Low Noise Amplifier



Description

ALN series low noise amplifiers are constructed with discrete or MMIC PHEMT devices that operate at the frequency range of 18 to 100 GHz. These amplifiers are especially designed for low noise applications. The amplifiers are offered in two categories, namely, standard and custom built. The custom built amplifiers are offered in various RF interfaces, including standard waveguide or coax connectors, for convenient system integration. Optional input and output integrated isolators are available to further improve the port return loss.

Features

- Low noise figure
- Up to full waveguide bandwidth
- Single power and light weight
- Wide operational temperature range

Applications

- Communication receivers
- Radar front
- Wideband radiometry
- Transceiver subassemblies

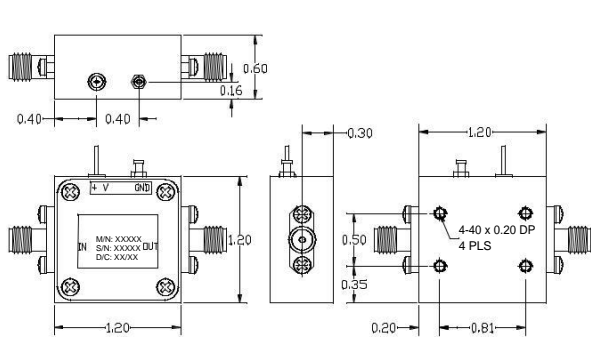
Specifications

Model Number	Frequency (GHz)	BW (GHz)	Noise Figure (dBm/Min)	Gain, (dB)	Current(mA) (max @ 12V)	-40°C to +50°C VSWR (Typ)	Outline
ALN-22093515 -01 -02	18.0 - 26.5	8.5	3.5	15	100	2:1	WT-A-1 WT-A-3
ALN-22093530 -01 -02	18.0 - 26.5	8.5	3.5	30	200	2:1	WT-A-1 WT-A-3
ALN-33144020 -01 -02	26.5 - 40.0	13.5	4.5	20	100	2:1	WT-A-1 WT-A-3
ALN-33144030 -01 -02	26.5 - 40.0	13.5	4.5	30	200	2:1	WT-A-1 WT-A-3
ALN-61086015 -01	57.0 - 65.0	8.0	6.0	15	100	2:1	WT-A-5
ALN- 61086030 -01	57.0 - 65.0	8.0	6.0	30	150	2:1	WT-A-5
ALN-94046015 -01	92.0 - 96.0	4.0	6.0	15	50	2:1	WT-A-5
ALN-94046030 -01	92.0 - 96.0	4.0	6.0	30	100	2:1	WT-A-5

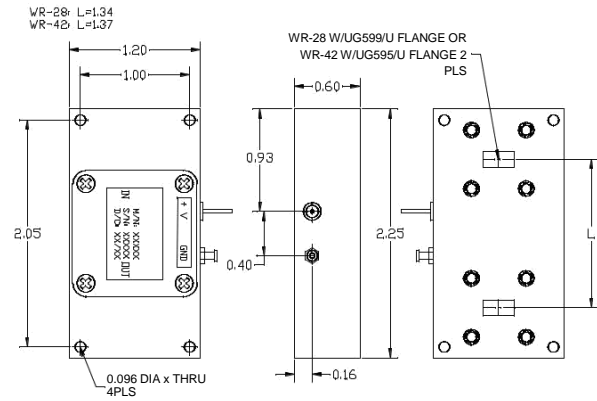
All specifications are subject to change without notice.

For more information, contact our sales team

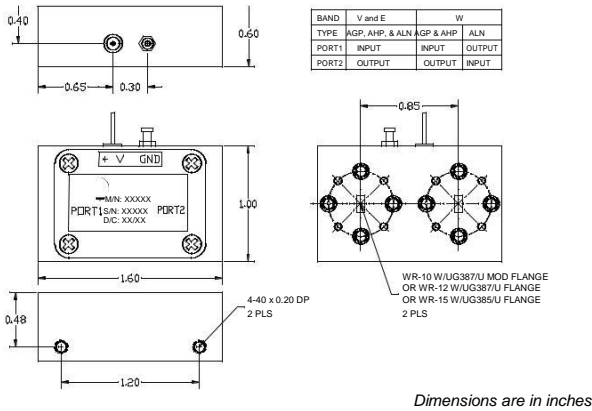
Outline Drawings



WT-A-1



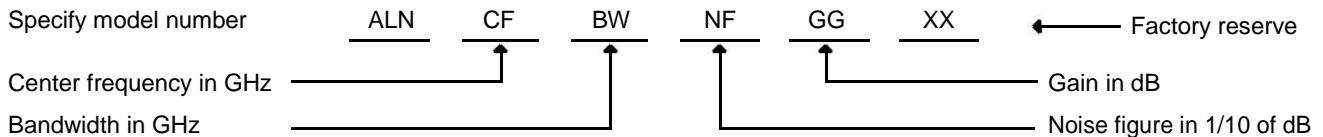
WT-A-3



WT-A-5

Custom Built Amplifiers

The amplifiers with the performance other than listed above are available per customer's request. You may submit your specifications along with the model number per the following instructions.



Ordering Example: Low noise amplifier with center frequency 42 GHz, 2 GHz bandwidth, 5.5 dB noise figure and 24 dB gain, specify ALN-42025524-XX

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