

Key Features

- 20 ~ 1000 MHz, 50 Ohm impedance
- 1.0 dB noise figure
- 20 dB gain
- 1.35:1 VSWR
- 10 dBm P_{1dB}
- Precision machined housing
- RoHS compliant

Applications

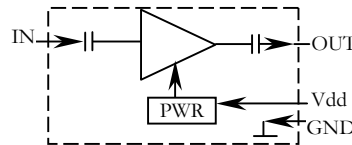
- VHF and UHF
- Receiver amplifiers
- RF bench tests
- Mobile base station applications



Absolute Maximum Ratings

Input CW RF Power	10 dBm
DC Voltage, V _{dd}	-0.5, +32V
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Functional Block Diagram



Ordering Information

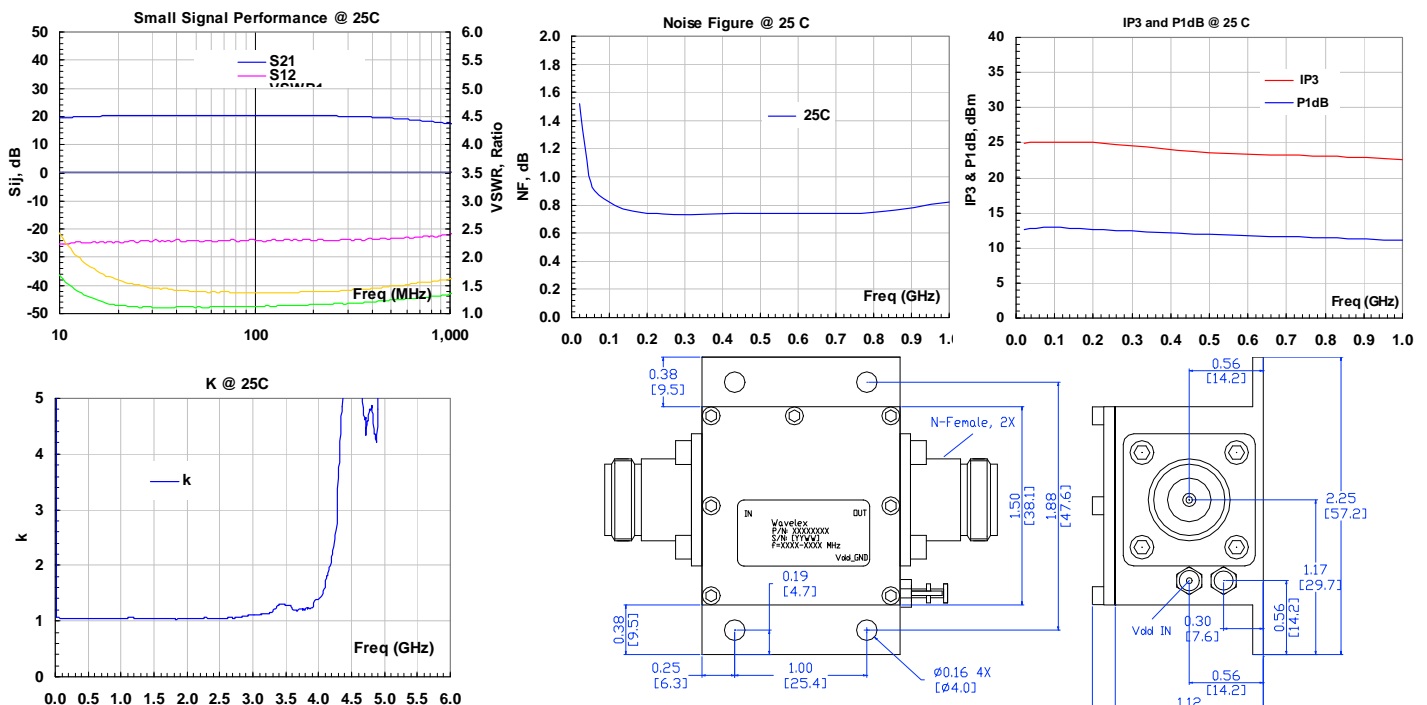
Model	Connectors
WLA0010N	N Female

Marking: WLA0010N

Specifications (Tested at +25°C)

tem	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW	50 Ohm Impedance	20		1000	MHz
Gain	S ₂₁	20 – 1000 MHz	16	20	22	dB
Noise Figure	NF	20 – 1000 MHz		1.0	1.6	dB
VSWR	SWR _i	20 – 1000 MHz, all RF ports		1.35:1	1.8:1	Ratio
Gain Flatness	ΔG	20 – 1000 MHz		+/- 1.0		dB
Reverse Isolation	S ₁₂	20 – 1000 MHz		25		dB
Output Power 1dB Compression Point	P _{1dB}	20 – 1000 MHz	8	10		dBm
Output-Third-Order Interception point	IP ₃	Two-Tone, P _{out} = 0 dBm each, 1 MHz separation	22	25		dBm
Current Consumption	I _{dd}	V _{dd} = +12.0 V		25		mA
Power Supply Operating Voltage	V _{dd}		+8	+12	+16	V
Operating Temperature	T _o		-40		+85	°C
Thermal Resistance	R _{th,c}	Junction to case			215	°C/W

Typical Performance



Outline, IP-2

UNITS: INCH [mm]
 BODY: Aluminum Alloy
 Finish: RoHS Plating
 RF Connector: N Female