

Key Features

- 175 ~ 1400 MHz, 50 Ohm impedance
- 29 dBm P_{1dB}
- 14 dB gain
- 1.8:1 VSWR
- 43 dBm IP₃
- Precision machined housing
- RoHS compliant

Applications

- VHF, UHF, Avionics, and GPS
- PA driver amplifiers
- RF bench tests
- Fixed wireless communication

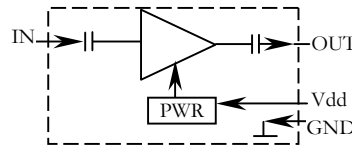
Additional heat sink is required for continuous operation!



Absolute Maximum Ratings

Input CW RF Power	24 dBm
DC Voltage, V _{dd}	-0.5, +16V
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Functional Block Diagram



Ordering Information

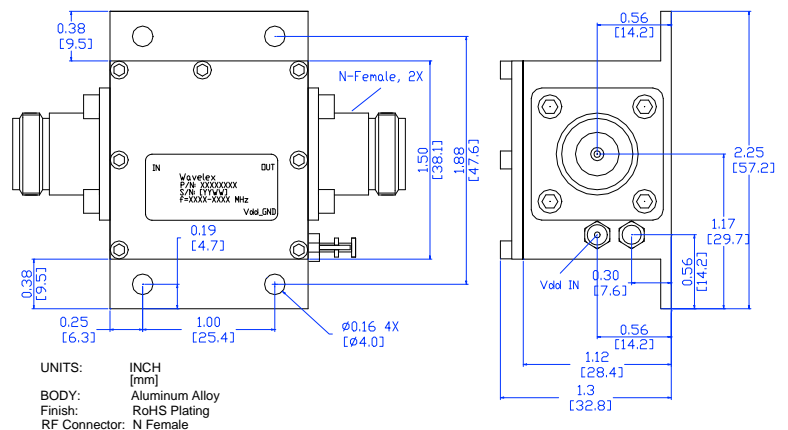
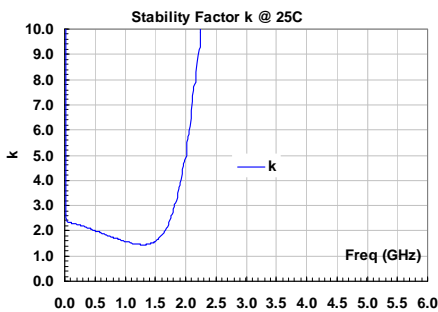
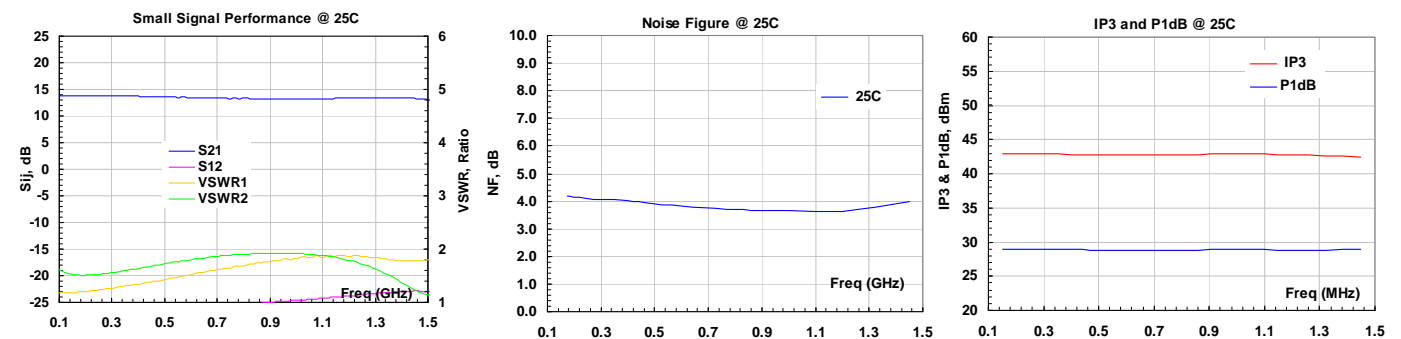
Model	Connectors
WPA0214N	N Female

Marking: WPA0214N

Specifications (Tested at +25°C)

tem	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW	50 Ohm Impedance	175		1400	MHz
Gain	S ₂₁	175 – 1400 MHz	12	13.5	15	dB
Noise Figure	NF	175 – 1400 MHz		3.7		dB
VSWR	SWR _i	175 – 1400 MHz		1.8:1	2:1	Ratio
Gain Flatness	ΔG	175 – 1400 MHz		+/- 0.5		dB
Reverse Isolation	S ₁₂	175 – 1400 MHz		25		dB
Output Power 1dB Compression Point	P _{1dB}	175 – 1400 MHz	27	29		dBm
Output-Third-Order Interception point	IP ₃	Two-Tone, P _{out} = 10 dBm each, 1 MHz separation	40	43		dBm
Current Consumption	I _{dd}	V _{dd} = +12.0 V		220		mA
Power Supply Operating Voltage	V _{dd}		+12		+16	V
Operating Temperature	T _o		-40		+85	°C
Thermal Resistance	R _{th,c}	Junction to case			32	°C/W

Typical Performance



Outline, IP-2

Specifications and information are subject to change without notice.