

Key Features

- 1.5 ~ 3.2 GHz, 50 Ohm impedance
- 1.2 dB noise figure
- 28 dB gain
- 1.35:1 VSWR
- 12 dBm P_{1dB}
- Precision machined housing
- RoHS compliant

Applications

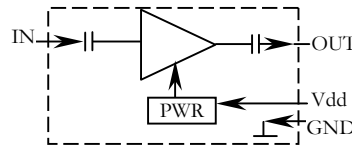
- L and S bands
- Receiver amplifiers
- RF bench tests
- Fixed wireless applications



Absolute Maximum Ratings

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

Functional Block Diagram



Ordering Information

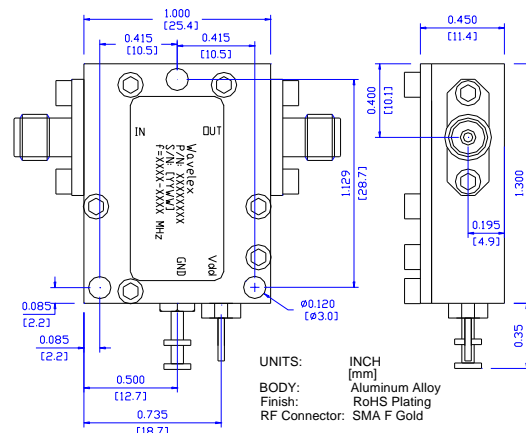
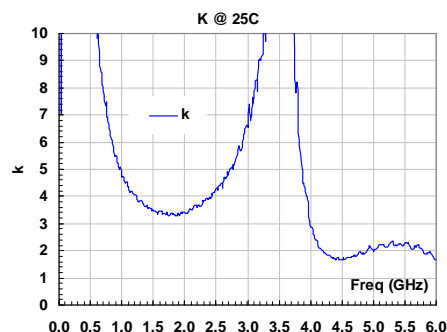
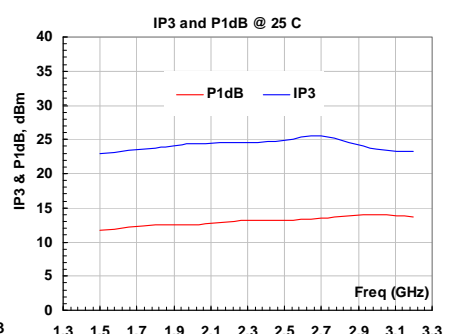
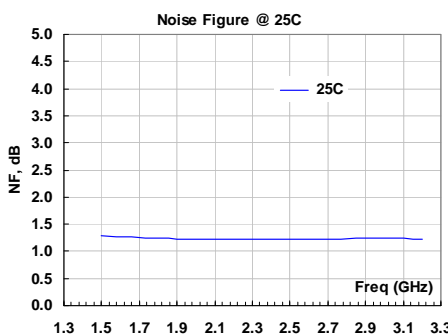
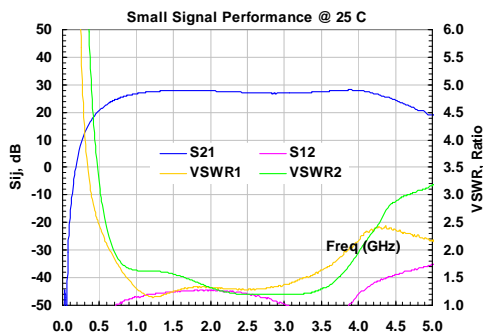
Model	Connectors
WLA1535A	SMA Female

Marking: WLA1535A

Specifications (Tested at +25°C)

tem	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW	50 Ohm Impedance	1.5		3.2	GHz
Gain	S ₂₁	1.5 – 3.2 GHz	26	28	30	dB
Noise Figure	NF	1.5 – 3.2 GHz		1.2	1.5	dB
VSWR	SWR _i	1.5 – 3.2 GHz, all RF ports		1.35:1	1.5:1	Ratio
Gain Flatness	ΔG	1.5 – 3.2 GHz		+/- 1.0		dB
Reverse Isolation	S ₁₂	1.5 – 3.2 GHz	15	20		dB
Output Power 1dB Compression Point	P _{1dB}	1.5 – 3.2 GHz	10	12		dBm
Output-Third-Order Interception point	IP ₃	Two-Tone, P _{out} = 0 dBm each, 1 MHz separation	23	25		dBm
Current Consumption	I _{dd}	V _{dd} = +12.0 V		55		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-3