

WLA2026A

2.0 – 2.6 GHz, Low Noise Amplifier

August 2016, REV C



Key Features

- 2.0 ~ 2.6 GHz, 50 Ohm impedance
- 0.65 dB noise figure
- 26 dB gain
- 1.3:1 VSWR
- 12 dBm P_{1dB}
- Precision machined housing
- RoHS compliant

Applications

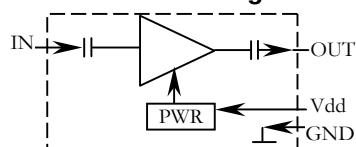
- PCS, 3G
- WiMAX
- Fixed wireless
- Measurement
- Mobile Infrastructures



Absolute Maximum Ratings

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

Functional Block Diagram



Ordering Information

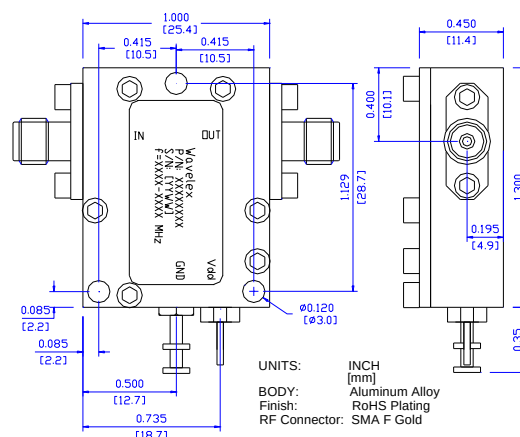
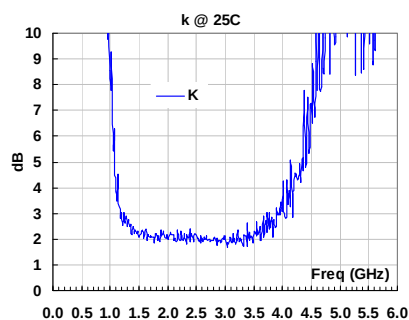
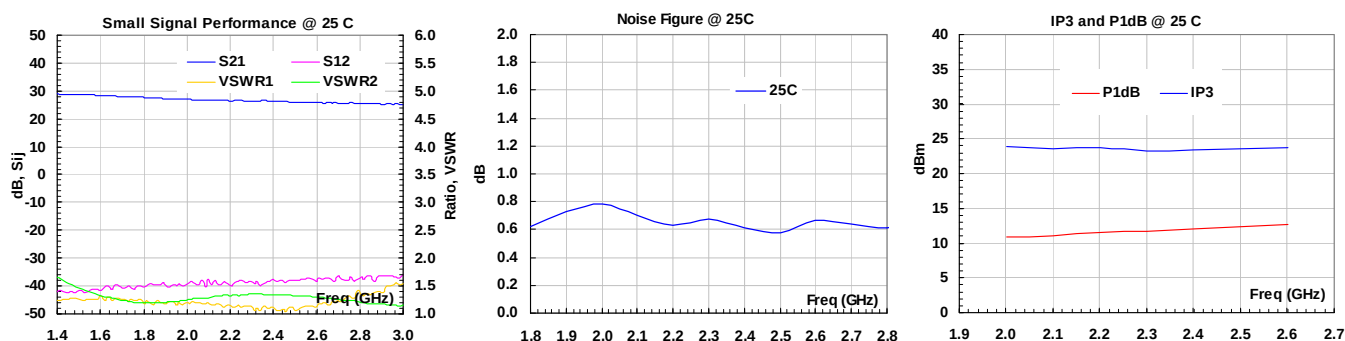
Model	Connectors
WLA2026A	SMA Female

Marking: WLA2026A

Specifications (Tested at +25°C)

tem	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW	50 Ohm Impedance	2.0		2.6	GHz
Gain	S ₂₁	2.0 – 2.6 GHz	24	26	28	dB
Noise Figure	NF	2.0 – 2.6 GHz		0.65	0.9	dB
VSWR	SWR _i	2.0 – 2.6 GHz, all RF ports		1.3:1	1.5:1	Ratio
Gain Flatness	ΔG	2.0 – 2.6 GHz		+/- 0.8		dB
Reverse Isolation	S ₁₂	2.0 – 2.6 GHz		37		dB
Output Power 1dB Compression Point	P _{1dB}	2.0 – 2.6 GHz	8.0	12		dBm
Output-Third-Order Interception point	IP ₃	Two-Tone, P _{out} = 0 dBm each, 1 MHz separation	20	23		dBm
Current Consumption	I _{dd}	V _{dd} = +12.0 V		55		mA
Power Supply Operating Voltage	V _{dd}		+7	+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

Specifications and information are subject to change without notice.