

USLN10180 Low Noise Broadband Amplifier

100 MHz - 18 GHz

- **MULTIPLE APPLICATIONS**

Electromagnetic Compatibility (EMC) testing
Instrumentation
Antenna field measurements
Communication systems

- **BROADBAND PERFORMANCE**

100 MHz to 18 GHz, 25 dB of very flat gain

- **VERY LOW NOISE**

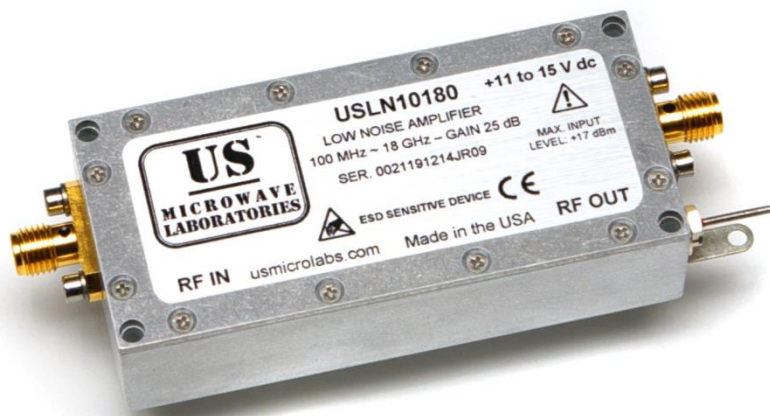
3 dB typical

- **WELL PROTECTED**

Reverse polarity, non-destructive protection. ESD and transient protection

- **READY FOR THE TOUGHEST ENVIRONMENT**

Operates from -40 to 85 °C.



The USLN10180 low noise broadband amplifier by US Microwave Laboratories offers exceptional performance at a very competitive price. Covering the bandwidth between 100 MHz and 18 GHz, it provides 25 dB of very flat gain and a typical noise figure of 3 dB. The amplifier operates from -40°C through 85°C. Typical applications include Electromagnetic Compatibility (EMC) testing and certification, building blocks in communication systems, instrumentation, antenna ranges and general laboratory use. Designed and manufactured in the U.S.A., the USLN10180 conforms to the European RoHS requirements, and is ECCN EAR99.



**RF & microwave
components
and equipment**

**All our products are
designed and manufactured
in the U.S.A.**



www.usmicrolabs.com info@usmicrolabs.com

7412 Summerfield Rd. #303, Summerfield, NC 27358, USA

Phone: (+1) 336-582-0603

Specifications subject to change without notice

Electrical specifications (valid -40 °C to 85 °C)

	USLN10180			UNIT
	Min	Typ	Max	
Frequency range	100		18000	MHz
Gain	24	25	26	dB
Gain flatness		±1.5		dB
Input & output impedance		50		ohm
Input VSWR			2:1	
Output VSWR			2:1	
P1dB	12	14	16	dBm
Noise figure > 1 GHz	2.5	3	4.5	dB
Operating supply voltage	11		15	V dc
Current consumption		180		mA
Maximum input/ reverse output power			17	dBm



RF & microwave components and equipment

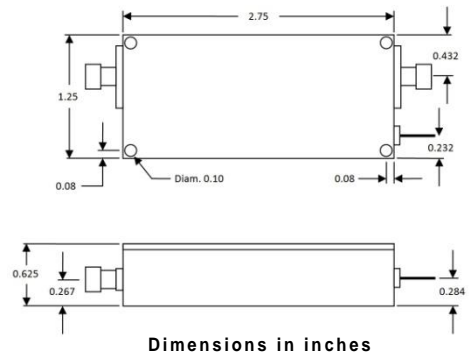
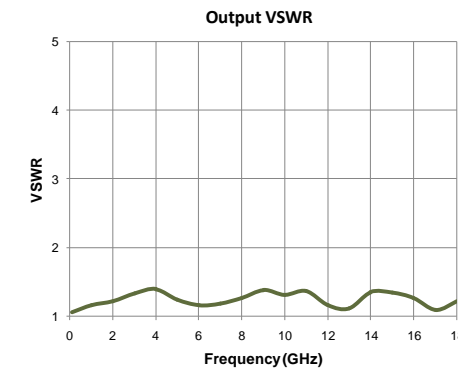
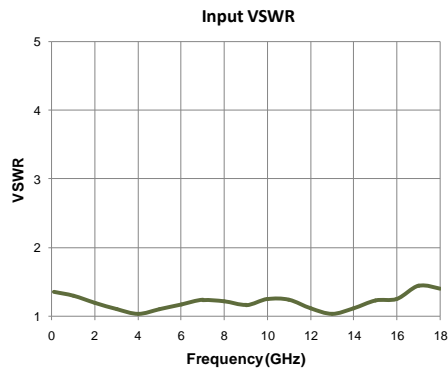
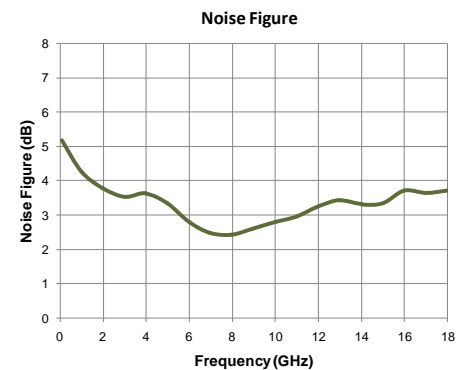
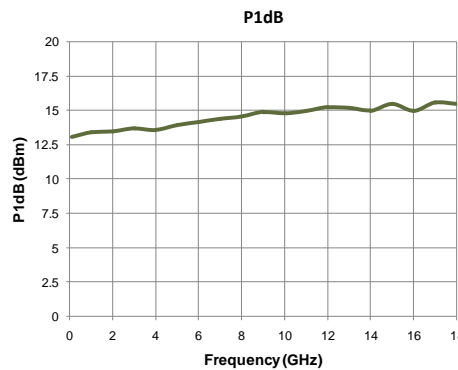
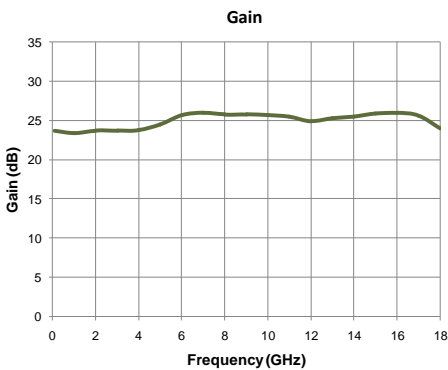
All our products are designed and manufactured in the U.S.A.



Mechanical and environmental specifications

	USLN10180	UNIT
Operating temperature	-40 to 85	°C
DC supply connector	Feedthrough capacitor, solder post	
Dimensions (excluding connectors)	W: 1.25 (31.75), H: 0.625 (15.875), L: 2.75 (69.85)	inch (mm)
Weight	2.7 (75)	oz (g)

Typical measured performance and dimensions



www.usmicrolabs.com info@usmicrolabs.com

7412 Summerfield Rd. #303, Summerfield, NC 27358, USA

Phone: (+1) 336-582-0603

Specifications subject to change without notice