

USLN Series Low Noise Broadband Amplifiers



- **BROADBAND PERFORMANCE**

1 MHz to 2.5 GHz or 50 MHz to 3 GHz

- **VERY LOW NOISE**

0.5 to 3.7 dB, depending on model and frequency

- **WELL PROTECTED**

Reverse polarity, non-destructive protection. RF input, RF output and supply voltage ESD protection

- **READY FOR THE TOUGHEST ENVIRONMENT**

All models meet all specifications from -40 to 85 °C. Outdoor housing option is IP65 compliant

The USLN low noise broadband amplifier series by US Microwave Laboratories provide exceptional performance at a very competitive price. Covering bandwidths of more than 11 octaves, they provide outstanding flatness, sub-dB noise figure, non-destructive reverse polarity and comprehensive ESD and transient protection.

All models meet all specifications from -40°C through 85°C, and the outdoor option is IP65 compliant.

Designed and manufactured in the U.S.A., they conform to the European RoHS requirements, and are 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

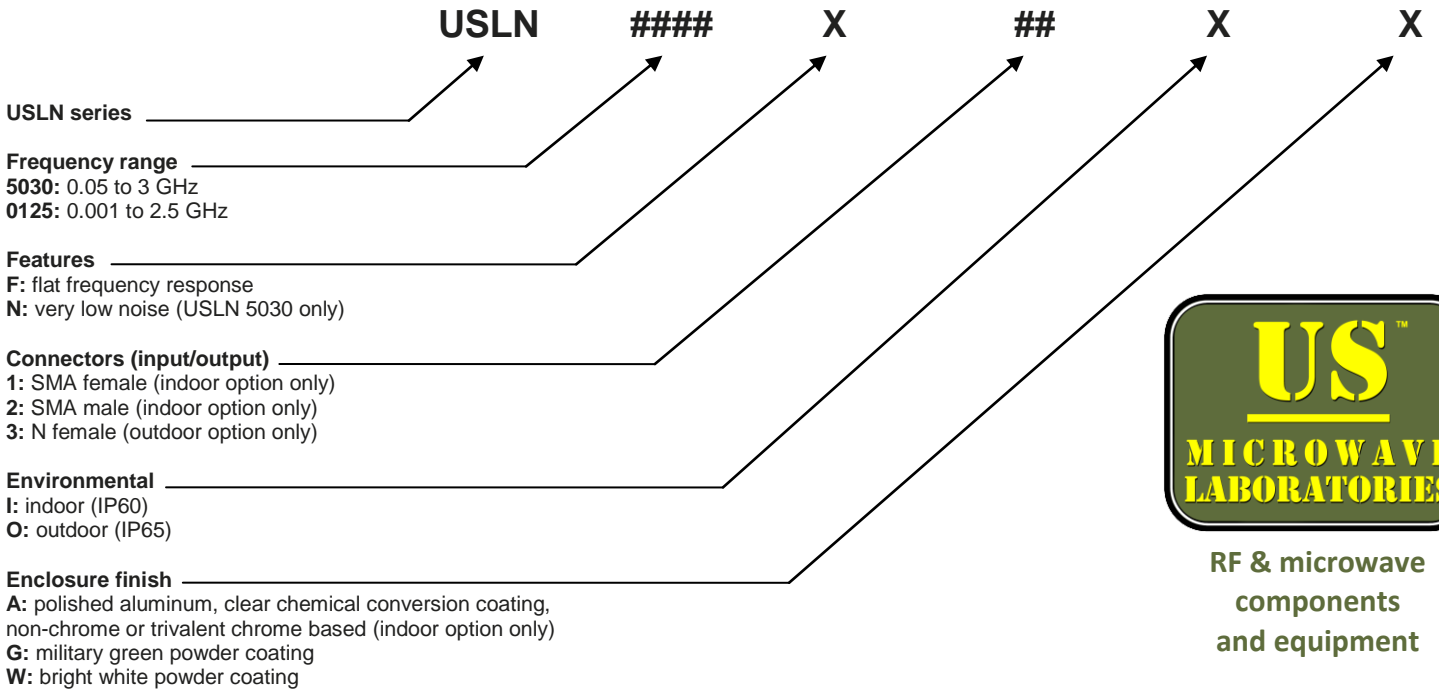
Electrical specifications (valid -40 °C to 85 °C)

	USLN 5030F (flat freq. response)			USLN 5030 N (very low noise)			USLN 0125 (low freq. operation)			UNIT
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
Frequency range	50		3000	50		3000	1		2500	MHz
Gain	30	31.5	33	22	30	43	30	31.5	33	dB
Input & output impedance	50			50			50			ohm
Input VSWR	2:1			4:1			2:1			
Output VSWR	2:1			2:1			2:1			
P1dB	15	20	21	15	20	21	19	20	20.5	dBm
Noise figure	1.5	2.2	3.5	0.5	1.1	1.9	0.9	1.9	3.7	dB
Operating supply voltage	8			8			8			V dc
Absolute maximum supply voltage	15			15			15			V dc
Current consumption	135			160			135			mA
ESD & transient protection	Yes, RF input, RF output and dc									
Reverse polarity protection	Yes, non destructive									
Maximum input/reverse output power	17			17			17			dBm

Mechanical and environmental specifications

	Indoor version	Outdoor version	UNIT
Operating temperature	-40 to 85		°C
DC supply connector	Feedthrough capacitor, solder post	Military style, 3 pin circular connector	
Dimensions (excluding connectors)	W: 1.5 (38.1), H: 0.95 (24.1), D: 3.5 (88.9)	W: 3.0 (76.2), H: 1.3 (33.0), D: 3.75 (95.3)	inch (mm)
Weight	0.353 (160)	0.904 (410)	lb (g)
IP rating	IP60	IP65	

Part number



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