

Plug-In Low Noise Amplifier

TO-0812LN+

50Ω 800 to 1200 MHz

Features

- very low noise, 1.2 dB max.
- ideal for printed circuit design
- excellent gain flatness
- hermetic, TO-8 can

Applications

- military, hi-rel applications
- communication systems
- UHF
- cellular



CASE STYLE: QQ96
PRICE: \$203.50 ea. Qty. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Low Noise Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)		MAXIMUM POWER (dBm)		INTERCEPT POINT (dBm)	VSWR (:1) Max.		DC POWER	
	f_L	f_U		Max.	Min.	Flatness Max.	Output (1 dB Compr.) Typ.		Input (no damage)	IP3 Typ.	In	Out
TO-0812LN+	800	1200	1.2	20	±1.0	+8	+10	+22.5	2.5	2.5	15	70

Noise Figure specified at room temperature, increases to 1.6dB typical at +85°C
Open load is not recommended, potentially can cause damage.
With no load derate max power input power by 20 dB.

Pin Connections

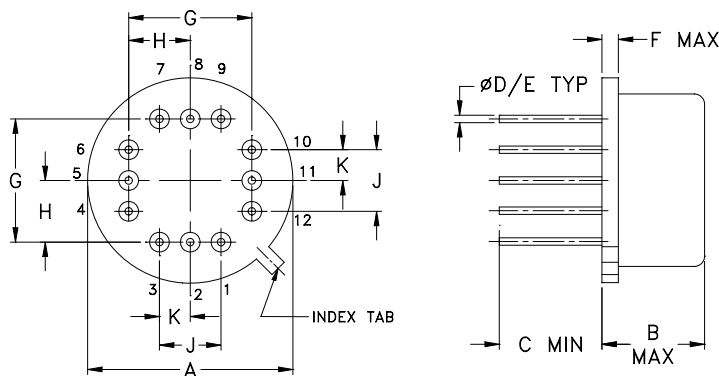
RF IN	5
RF OUT	11
DC	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

Maximum Ratings

Operating Temperature	-54°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	wt
.600	.250	.25	.016	.020	.04	.400	.200	.200	.100	grams
15.24	6.35	6.35	0.41	0.51	1.02	10.16	5.08	5.08	2.54	4.0

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

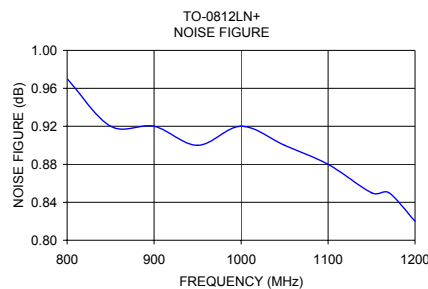
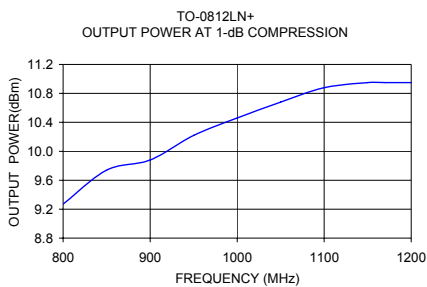
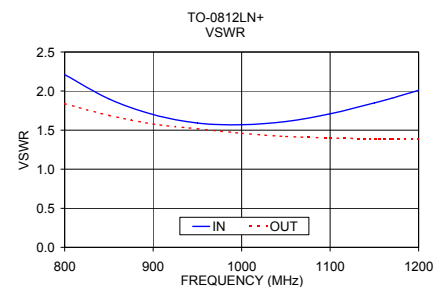
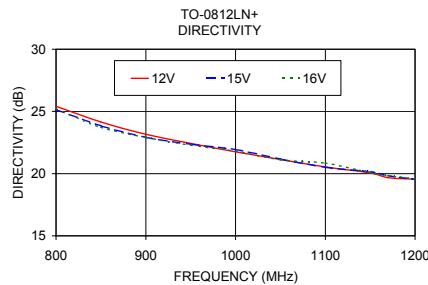
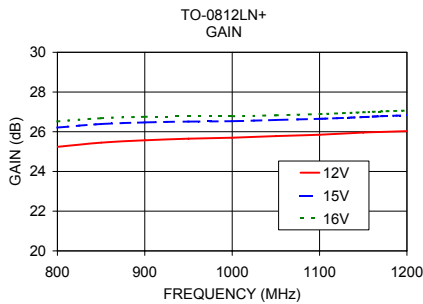
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

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Typical Performance Data/Curves

TO-0812LN+

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
800.00	25.24	26.21	26.52	25.41	25.15	25.23	2.21	1.84	0.97	9.27
850.00	25.45	26.39	26.68	24.15	23.86	23.73	1.90	1.69	0.92	9.74
900.00	25.57	26.47	26.75	23.16	22.93	22.92	1.70	1.58	0.92	9.88
950.00	25.65	26.51	26.77	22.43	22.37	22.30	1.59	1.52	0.90	10.22
1000.00	25.70	26.53	26.78	21.75	21.94	21.80	1.57	1.46	0.92	10.46
1050.00	25.78	26.59	26.83	21.13	21.18	21.12	1.61	1.42	0.90	10.68
1100.00	25.85	26.65	26.89	20.54	20.51	20.85	1.71	1.40	0.88	10.88
1150.00	25.96	26.74	26.98	20.06	20.16	20.07	1.85	1.39	0.85	10.95
1170.00	25.99	26.78	27.02	19.68	19.83	19.85	1.91	1.39	0.85	10.95
1200.00	26.03	26.83	27.07	19.55	19.55	19.59	2.01	1.39	0.82	10.95



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