

NON-CATALOG

Plug-In

Low Noise Amplifier

TO-0812LN+

50Ω

800 to 1200 MHz



CASE STYLE: QQ96

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

“Not recommended for new designs. Please, refer to PCN# 16-004 on model’s Dash Board”

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

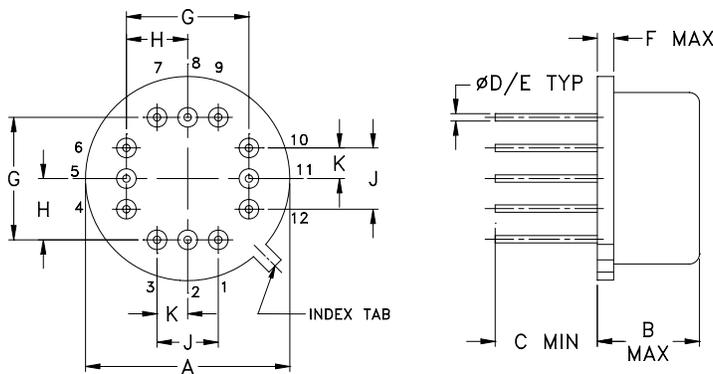
RF IN	5
RF OUT	11
DC	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

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

Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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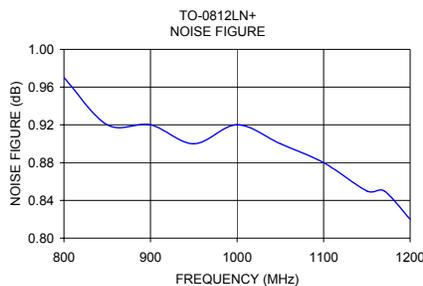
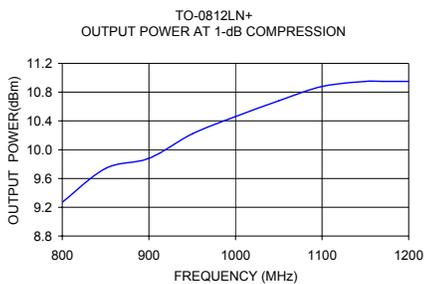
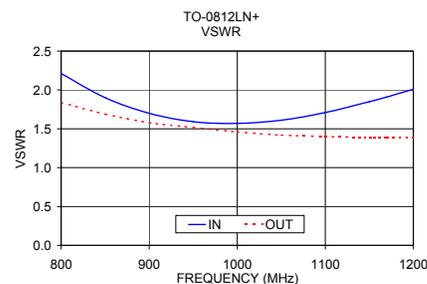
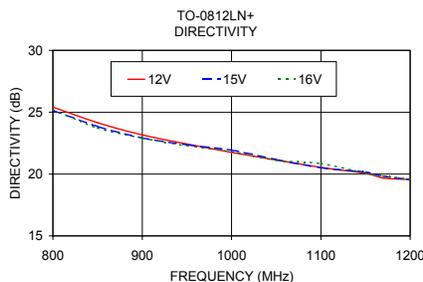
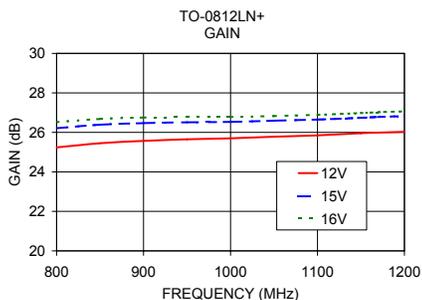
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TO-0812LN+
160202
Page 1 of 2

NON-CATALOG

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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