

Plug-In

Low Noise Amplifier

TO-1217LN

50Ω

1200 to 1700 MHz

Features

- very low noise, 1.6 dB max.
- wideband, 1200 to 1700 MHz
- hermetic, TO-8 can

Applications

- military, hi-rel applications
- GPS
- mar sat
- communication systems



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

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-1217LN	1200	1700	1.6	20	±1.0	+10	+13	+25	2.5	2.5	15	70

Noise Figure specified at room temperature, increases to 2 dB typical at +85°C
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

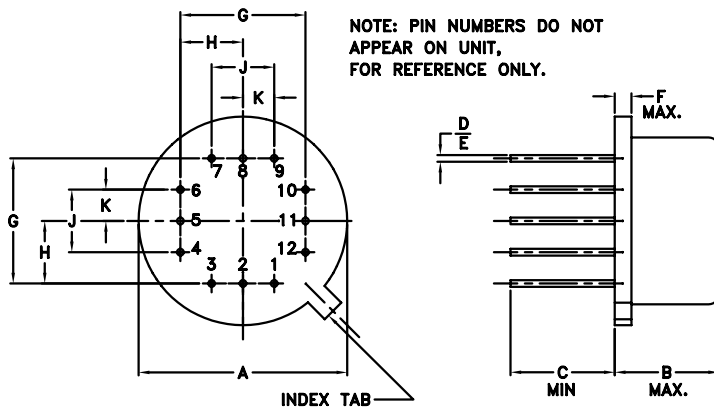
Pin Connections

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.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.600	.250	.25	.016	.020	.04
15.24	6.35	6.35	0.41	0.51	1.02
G	H	J	K	wt	
.400	.200	.200	.100	grams	
10.16	5.08	5.08	2.54	4.00	

REV. OR
M98086
TO-1217LN
060710
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Mini-Circuits ISO 9001 & ISO 14001 Certified

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		
1200.00	26.83	27.68	27.91	9.90	10.00	9.80	1.76	1.30	1.18	13.08
1236.00	26.64	27.45	27.67	10.40	10.10	10.10	1.80	1.30	1.11	13.30
1287.00	26.38	27.13	27.34	10.60	10.60	10.50	1.90	1.29	1.07	13.41
1339.60	26.14	26.88	27.07	11.10	10.90	10.90	2.01	1.29	1.11	13.55
1392.30	26.15	26.84	27.04	11.50	11.20	11.30	2.09	1.28	1.22	13.64
1443.60	26.18	26.83	27.00	11.00	11.30	11.50	2.11	1.30	1.32	13.79
1507.70	26.23	26.84	27.00	10.80	11.10	11.30	2.06	1.33	1.41	13.94
1571.80	26.59	27.13	27.27	10.10	10.50	10.80	1.90	1.42	1.46	14.19
1635.90	27.13	27.57	27.68	9.10	9.60	10.10	1.61	1.58	1.43	14.50
1700.00	27.66	28.02	28.10	7.90	9.10	9.40	1.25	1.97	1.40	14.65

