

Plug-In

Low Noise Amplifier

TO-1724LN

50Ω

1700 to 2400 MHz

Features

- very low noise, 1.6 dB max.
- wideband, 1700 to 2400 MHz
- hermetic, TO-8 can

Applications

- military hi-rel applications
- PCS/DCS
- UMTS



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		Min.	Flatness Max.	Output (1 dB Compr.) Typ.	Input (no damage)		In	Out	Volt (V) Nom.	Current (mA) Max.
TO-1724LN	1700	2400	1.6	20	±1.0	+10	+13	+22	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

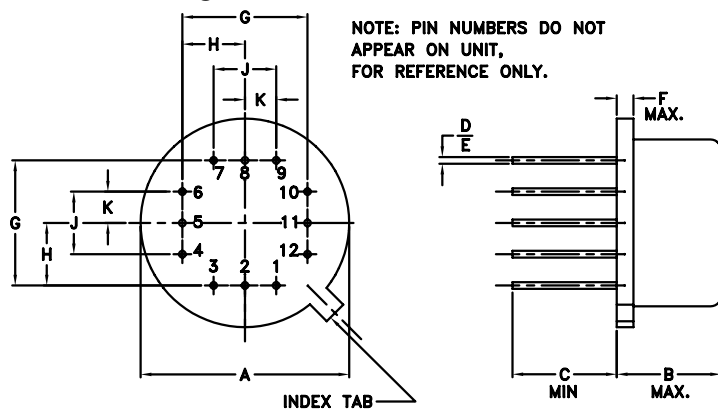
Pin Connections

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-1724LN
060710
Page 1 of 2



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Typical Performance Data/Curves

TO-1724LN

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		
1700.00	22.01	22.71	22.91	13.10	12.90	14.40	1.49	1.85	1.35	12.75
1751.20	21.83	22.49	22.70	15.00	13.70	15.90	1.69	1.77	1.34	12.91
1821.90	21.75	22.42	22.58	14.80	12.50	14.70	1.74	1.78	1.37	12.97
1895.50	21.76	22.41	22.58	15.70	14.40	15.40	1.56	1.78	1.37	13.19
1969.20	21.64	22.24	22.38	16.00	15.00	18.30	1.89	1.73	1.36	13.53
2041.00	21.64	22.21	22.33	15.60	15.80	14.80	1.60	1.69	1.31	13.79
2130.80	22.16	22.61	22.69	12.50	15.90	15.90	1.52	1.66	1.21	14.18
2220.50	22.15	22.49	22.59	15.80	13.40	15.30	1.41	1.64	1.17	14.61
2310.30	22.77	23.08	23.07	15.40	14.70	16.30	1.15	1.55	1.23	15.02
2400.00	22.40	22.64	22.67	14.70	13.30	16.50	1.39	1.48	1.34	15.01

