## Plug-In

# **Low Noise Amplifier**

# TO-1724LN+ TO-1724LN

### $50\Omega$

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)

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

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

#### **Low Noise Amplifier Electrical Specifications**

MODEL NO.			NOISE FIGURE (dB)	GAIN (dB)		MAXIN POW (dBr	ER	INTERCEPT POINT (dBm)	VSWR (:1) Max.		DC POWER	
	fL	f <sub>u</sub>	Max.	Min.	Flatness Max.	Output (1 dB Compr.) Typ.	Input (no damage)	IP3 Typ.	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  $+85^{\circ}\text{C}$ 

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

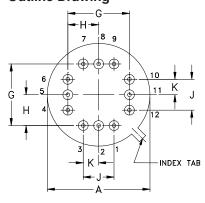
#### **Pin Connections**

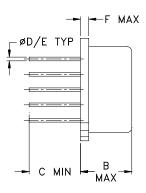
RF IN	5
RF OUT	11
DC	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

#### **Maximum Ratings**

Operating Temperature	-54°C to 85°C			
Storage Temperature	-55°C to 100°C			
DC Voltage	+17V Max.			
Permanent damage may occur if any of	these limits are exceeded.			

#### **Outline Drawing**





#### Outline Dimensions (inch )

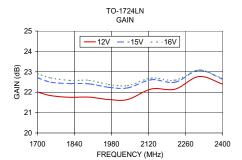
wt	K	J	Н	G	F	Е	D	С	В	Α
grams	.100	.200	.200	.400	.04	.020	.016	.25	.250	.600
4.0	0.54	F 00	F 00	40 40	4 00	0.54	0.44	0.05	0.05	4504

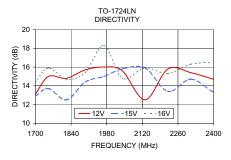
For detailed performance specs

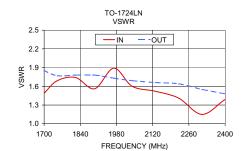


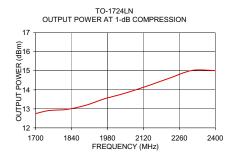


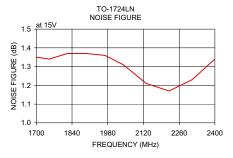
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V
1700.00	22.01	22.71	22.91	13.10	12.90	14.40	1.49	1.85	1.35	12.75
1751.20	21.83	22.49	22.70	15.00	13.70	15.90	1.69	1.77	1.34	12.91
1821.90	21.75	22.42	22.58	14.80	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











For detailed performance specs