Low Noise Amplifier

ZRL-700+

50Ω

250 to 700 MHz

Features

- high IP3, +46 dBm typ.
- low noise figure, 2.0 dB typ.
- · broadband flat gain response
- · internal voltage regulated
- · over-voltage and transient protected

Applications

- high dynamic range applications
- mobile radio service
- NMT 450 cellular service
- · aeronautical communications
- UHF television

Model Connectors

\$119.95 ea. (1-9)

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

ZRL-700+

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

Electrical Specifications at T_{AMB}=25°C

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)				NOISE FIGURE (dB)		MAXIMUM POWER OUTPUT (dBm)			POINT (dBm) Note 1	VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain)	DC VOLTAGE @ Pin V+ (V) Nom.	DC OPERATING CURRENT @ Pin V+ (mA)	
					Flati	ness			(1 dB C	compr.)	Saturated at 3dB Compr.	IP3				Note 2		
	f∟	fυ	Тур.	Min.	Тур.	Max.	Тур.	Max.	Тур.	Min.	Тур.	Тур.	In	Out	Тур.		Тур.	Max.
ZRL-700+	250	700	29	27	±0.5	±1.0	2.0	3.5	24.8	23.5	25.2	+46	1.20	1.10	15	12	514	575
ZnL-700+	300	500	29	27.5	±0.3	±0.7	2.0	3.5	24.8	23.5	25.3	+46	1.10	1.05	14.5	12	514	575

^{1. 1}MHz tone spacing

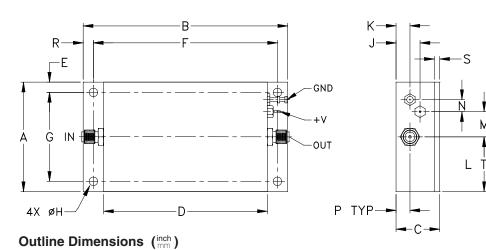
Maximum Ratings

Operating Temperature	-40°C to 80°C case				
	-40°C to 60°C ambient				
Storage Temperature	-55°C to 100°C				
DC Voltage	+17V Max.				
Input Power (no damage	e) +10dBm				
Permanent damage may occur if any of these limits are exceeded.					

3.75 0.80 3.00 0.19 3.374 1.624

50.80 95.25 20.32 76.20 4.83 85.70 41.25 3.96 11.18 6.60 25.40 12.95

Outline Drawing



0.16 0.44

0.26

1.00

0.51 0.22

For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com

grams

0.19 0.10

Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.

