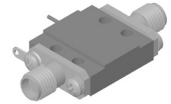




# 6882-700



## 2.0 TO 8.0 GHz QSL MICROWAVE AMPLIFIER

- SMALL SIGNAL GAIN: 23.0 dB (TYP.)
- POWER OUTPUT: +21.5 dBm (TYP.)
- NOISE FIGURE: 7.0 dB (TYP.)
- INTERNAL VOLTAGE REGULATION
- FIELD REPLACEABLE RF CONNECTORS

### Specifications (Rev. Date: 3/02)\*

Characteristics	Typical	Guaranteed	
		+25°C	-40° to +70°C
Frequency	1.5-8.5 GHz	2.0-8.0 GHz	2.0-8.0 GHz
Small Signal Gain (min.)	23.0 dB	20.0 dB	19.0 dB
Gain Flatness (max.)	±1.0 dB	±1.0 dB	±1.2 dB
Reverse Isolation	50 dB		
Noise Figure (max.)	7.0 dB	8.0 dB	9.0 dB
Power Output @ 1 dB comp. (min.)	+20.5 dBm	+19.0 dBm	+18.0 dBm
IP3	+32 dBm		
IP2	+42 dBm		
Second Order Harmonic IP	+48 dBm		
VSWR Input / Output (max.)	1.6:1 / 1.9:1	2.0:1 / 2.3:1	2.2:1 / 2.5:1
DC Current @ 15 Volts (max.)	175 mA	200 mA	225 mA

\*Measured in a 50-ohm system at +15 Vdc Nominal.

### Absolute Maximum Ratings

Storage Temperature	-62° to +125°C
Max. Case Temperature	125°C
Max. DC Voltage	+18 Volts
Max. Continuous RF Input Power	+13 dBm
Max. Short Term RF Input Power (1 minute max.)	50 mW
Max. Peak Power (3 µsec max.)	0.5 W

### Outline Drawings

Package	QSL
Figure	QA
Model	6882-700

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