

PI100 Series 10-500 MHz. Amplifier/Down Converter



See Short Form Chart and Mechanical Section for available outline drawings.

Features: (typical values)

- High Conversion Gain 33.0 dB.
- Low Noise Figure 4.0 dB.
- Low Lo Input..... 0 dBm.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency RF, IF & LO		10	500	MHz.
Conversion Gain	33.0	31.0	37.0	dB.
Gain Flatness	±0.5		±0.7	dB.
Pout @ 1dB. comp.	+2.0	+0		dBm.
Noise Figure	4.0		6.0	dB.
LO Input	0	-4.0	+5.0	dBm.
IP ₃ (two-tone)*	11.0	7.0		dBm.
VSWR In/Out	1.6:1		2.0:1	
Supply Req'd	+15/40		+15/60	v/mA.

Min. and max. values are from -55 to +85°C

*IP₃ is in band output intercept point

Maximum Ratings

Storage temperature -62°C to +125°C
 DC voltage +15 volts
 RF input power +15.0 dBm.
 Case Temperature +95°C

Typical Performance Curves

◆ +25°C

