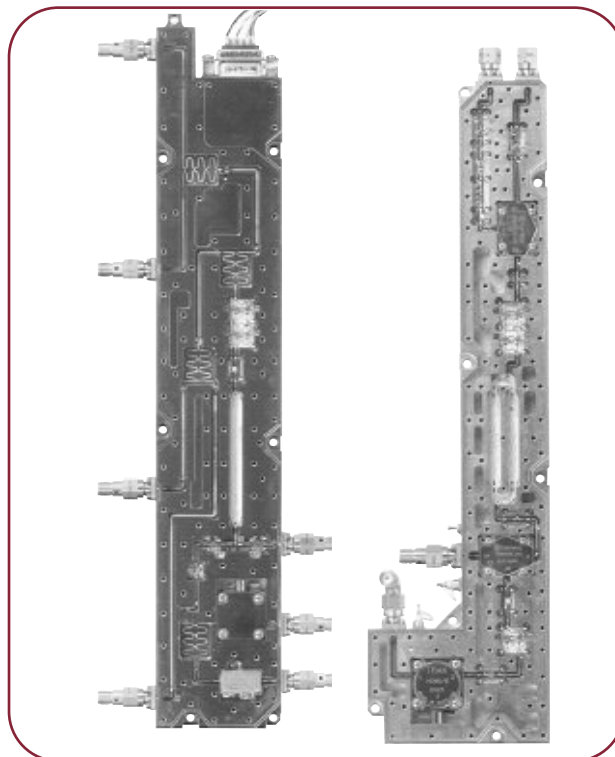


FOUR-CHANNEL DOWNCONVERTER

MODEL: DC-04000800-01000150

FEATURES

- High reliability spaceborne application
- IF processor for high resolution Autocorrelator Spectrometer
- Two-stage frequency conversion
- SP2T switch in RF for redundant operation
- RF input frequency 4–8 GHz
- IF output frequency 1–1.5 GHz
- 1st LO frequency 13–17 GHz
- 2nd LO frequency 10.5 GHz
- Nominal system gain 50 dB
- Gain vs. IF frequency ± 0.4 dB
- Gain vs. temperature
(10 to 60°C) ± 0.4 dB typical
- Noise figure 1.5 dB typical
- Output power
(1 dB compression) +12 dBm typical
- Total system power 6 W maximum



ENVIRONMENTAL CONDITIONS

Operating temperature.....	-45 to +85°C
Storage temperature.....	-55 to +95°C
Vibration.....	18 g's rms, 20-2000 Hz per MIL-STD-810B
Humidity.....	Non-hermetic

RF LAYOUT, CONVERTER MODULE

