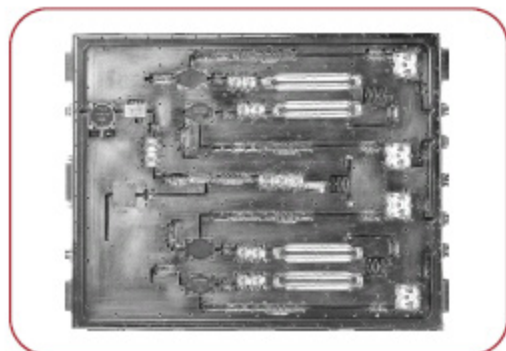


## FOUR-CHANNEL DOWNCONVERTER

MODEL: DC-04-04000800-01600260

### FEATURES

- High reliability spaceborne application
- RF input frequency ..... 4–8 GHz
- IF output frequency ..... 1.6–2.6 GHz
- Nominal gain..... 72 dB
- Gain vs. IF frequency.....  $\pm 1$  dB typical
- Gain vs. temperature  
(-10 to +25°C).....  $\pm 0.6$  dB typical
- Noise figure ..... 1.5 dB typical
- Output power (1 dB  
compression)..... +21 dBm typical
- RF/IF VSWR ..... 1.4:1 typical
- Total system power..... 12.5 W typical
- Size ..... 9.45" [240.03 mm] x 11.42" [290.07 mm] x 1.3" [33.02 mm]
- IF processor for Acousto-Optical Spectrometer
- Integrated 100 MHz reference for AOS Bragg Cell calibration
- Integrated Bragg Cell bandshape equalizer
- Digital attenuators provide 0–22 dB gain adjust, 1 dB step



### 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

### FUNCTIONAL BLOCK DIAGRAM

