Features:

- Combines: MMIC Amplifiers and Transistor Multipliers
- Dual IF Outputs: 70 MHz and 970 MHz
- L.O. Frequency Generation: Five Tones
- Over 40 dB AGC Control
- Built-In-Test Functions
- Field Programmable
- VME Bus Interface
- Low Noise Design

Electrical Specifications

- **Reference Input**
  - Frequency: 5 MHz
  - Power Level: + 2.5 dBm ± 2 dB

- **Diplexed Inputs**
  - Frequency: RF 6.1 - 6.5 GHz
  - LO 5.1 GHz
  - Power Level: (RF) - 40 dBm ± 25 dB

- **Calibration Mode Input**
  - Frequency: 6.4 - 7.4 GHz
  - Power Level: + 8.5 dBm ± 2.5 dB

- **First IF Output**
  - Frequency: 70 ± 2 MHz
  - Power Level: + 20 dBm, minimum
  - IF Gain: 22 dB ± 1.5 dB
  - Harmonics: - 20 dBc, maximum
  - Spurious: - 50 dBc (in-band)

- **Second IF Output**
  - Frequency: (WB) 970 ± 200 MHz
  - (NB) 970 ± 3.5 MHz
  - Power Level: + 20 dBm, minimum
  - IF Gain: 42 ± 2 dB
  - IF Gain Control: 0 to - 62 dB
  - Harmonics: - 20 dBc, maximum
  - Spurious: - 50 dBc (in-band)

- **Fixed LO Outputs**
  - Frequencies: 5 MHz 900 MHz
  - Power Level: + 10 dBm ± 2 dB
  - Harmonics: - 35 dBc - 60 dBc
  - Spurious: - 80 dBc - 60 dBc

- **ECL Outputs**
  - Frequency: 40 MHz 100 MHz

General

- Impedance: 50 ohms
- Load VSWR: 1.5:1
- Tuning Control: VME Bus Interface
- BITE Scheme: Fault Status ("1" = Fault)
- DC Power (nominal): + 12 V ± 5 % @ 1550 A
  - + 5 V ± 5 % @ 250 mA
  - - 12 V ± 5 % @ 235 mA
- Power Consumption: 22.7 W, nominal

Environmental Specifications

- Operating Temperature: 0 to + 65 °C, baseplate

Mechanical Specifications

- Size: Single 9U x 160 mm VME card
- Weight: 5 lbs (2.3 kg), nominal

Specifications subject to change without notice.

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