

**FEATURES**

- Broadband frequency coverage
- High resolution
- Low power consumption

**14 BIT DIGITAL FREQUENCY
DISCRIMINATOR**

ELECTRICAL SPECIFICATIONS

Frequency Range	6.0 to 18.0 GHz
Number of Bits	14 straight binary count, all zeros = 0 GHz, all ones = 20.48 GHz
RMS Frequency Accuracy	4 MHz
Frequency Resolution	1.25 MHz
Dynamic Range	0 to +10 dBm
VSWR, max	2.5 : 1
Pulse Width	50 nanoseconds to CW
Signal to Noise Ratio	0 dB minimum (valid rate 99% min)
Data Format	TTL
Optimum Trigger Delay	20 to 35 nanoseconds (50 nS pulse)
Digital Throughput Time	220 nanoseconds (trigger to data ready)
Bad Data Flag	85% Probability of Detection 2% Probability of False Alarm
Triggering	External, TTL, falling edge
DC Power	+ 15.0 Volts at 700 mA max + 5.0 Volts at 700 mA max - 5.2 Volts at 600 mA max

MECHANICAL SPECIFICATIONS

Size	6" x 8" x 1.57" (152.4mm x 203.2 mm x 40mm)
Weight	5 pounds maximum
Connectors	Field replaceable SMA input 37 pin MDM for DC power, digital I/O
Temperature Range	0 to +60 °C

SAGE

LABORATORIES