



**FEATURES**

- Coarse Frequency Measurement
- Fast Throughput Time
- Operation at Low S/N
- Programmable Threshold
- Selectable Video Bandwidth
- Low Power Dissipation

**FREQUENCY ACTIVITY DETECTOR**

**ELECTRICAL SPECIFICATIONS**

Frequency Range(GHz)	2.0 to 6.0
Number of Channels	16
Nominal Channel Bandwidth	250 MHz
Threshold	Programmable via serial interface
Video Bandwidth	5MHz or 20 MHz
VSWR, max	1.9: 1
Input Power Level	+6 to +16 dBm
Signal to Noise Ratio	-6 dB minimum
Response Time	40 ns (with 20 MHz Video Bandwidth) 80 ns (with 5 MHz Video Bandwidth)
Pulse Width	50 ns to CW (with 20 MHz Video Bandwidth) 200 ns to CW (with 5 MHz Video Bandwidth)
Probability of Detection	0.99
False Alarm Rate	1/second
Output Format	Differential TTL
Power	2W maximum

**MECHANICAL SPECIFICATIONS**

Size	7.5" x 2.6" x 0.98"
Weight	2 pounds maximum
Connectors	Field replaceable SMA input 37 pin MDM for DC power, digital I/O
Temperature Range	-20 °C to +80 °C

**APPLICATIONS:**

- Pulse detection subsequent to a noise limited amplifier
- LO selection for digital conversion
- Frequency identification for pulse de-interleaving



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