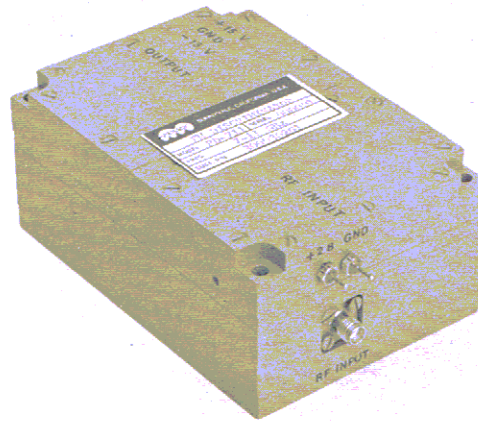




# 7 TO 11 GHz FREQUENCY DISCRIMINATOR



## FEATURES:

- Highly Linear
- MIC
- Small Size
- Pulsed or CW Signals
- Very Fast Response Time (25 Nanosecs.)

## DESCRIPTION:

This microwave integrated circuit line discriminator is highly linear and is suitable for both pulsed and CW inputs. It utilizes conventional techniques including two 3 dB quad. hybrids, a delay line, and two harmonic suppression detectors. The microwave portion is fabricated using ceramic substrate microstrip for repeatability and low cost.

## APPLICATIONS:

These discriminators have a wide variety of applications in ECM Systems. They provide a basic building block for set-on receivers and ELINT Systems. They can also be utilized anywhere a coarse frequency measurement is required. Output voltage format is flexible with respect to polarity and magnitude. Fast response time (25 nanosecs.) allows operating on an incoming 100 nanosecond pulse on a pulse by pulse basis.

## PERFORMANCE:

Frequency Range:	7.0 GHz to 11.0 GHz
Linearity (-6 dBm $\pm$ 0.15 dB input power):	$\pm$ 75 MHz max.
Sensitivity (can be varied):	10 MHz/mV
Response Time (50% RF to Video Output Settling):	< 25 nS
Temperature Range:	-25° to +60° C
Size (Excluding Connectors):	4.25" x 3" x 2"

**PLAMIC MEANS MIC**

For further information please contact:

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