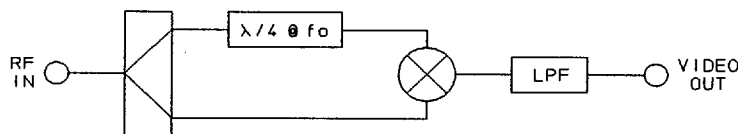
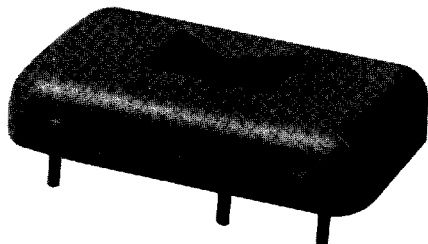




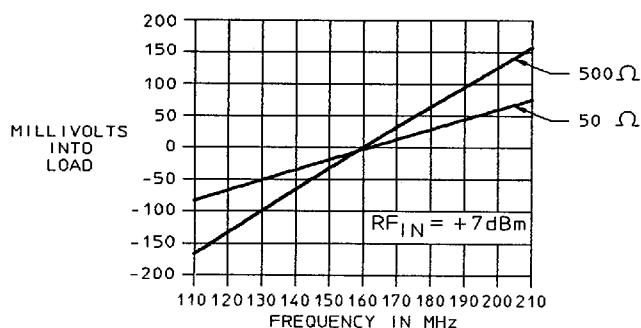
WDS-2 series

FREQUENCY DISCRIMINATOR
Wideband, PC Plug In

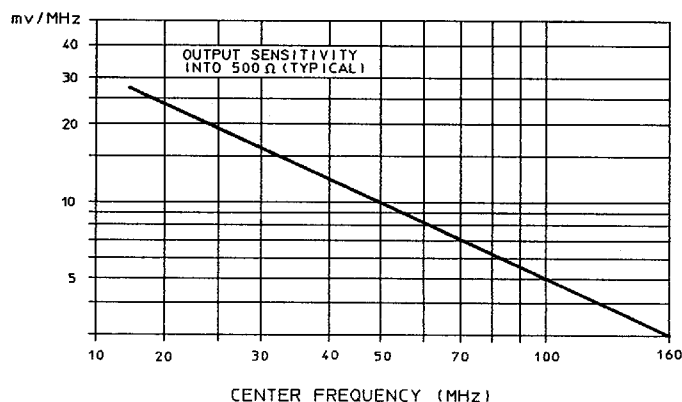


- 30 to 160 MHz RF Frequency Range
- Octave Bandwidth Standard

Nominal Transfer Characteristic



Nominal Available Sensitivity



Model Number	RF Center Frequency, f_0	Video Bandwidth	Rise Time
WDS-2-***B	30 to 70 MHz	10 MHz	50 ns nom
	70 to 160 MHz	25 MHz	20 ns nom

For complete Model Number replace *** with desired RF Center Frequency, f_0 in MHz.

COMMON SPECIFICATIONS

Linearity (over octave):	$\pm 5\%$
Instantaneous Operating Bandwidth:	up to one octave
Input Impedance:	50 Ω nom.
VSWR:	1.5:1 max.
RF Input Level:	+7 to +10 dBm
Output Sensitivity:	1.5 mV/MHz into 50 Ω
(For 160 MHz Model)	3 mV/MHz into 500 Ω load
Output Slope:	positive (negative optional)
Zero Crossing Accuracy:	< 1% of f_0 nominal
Weight, nominal:	1 oz (28 g)
Operating Temperature:	-55° to +85°C

* Sensitivity varies with f_0 - See typical plot.

AVAILABLE SPECIFICATIONS

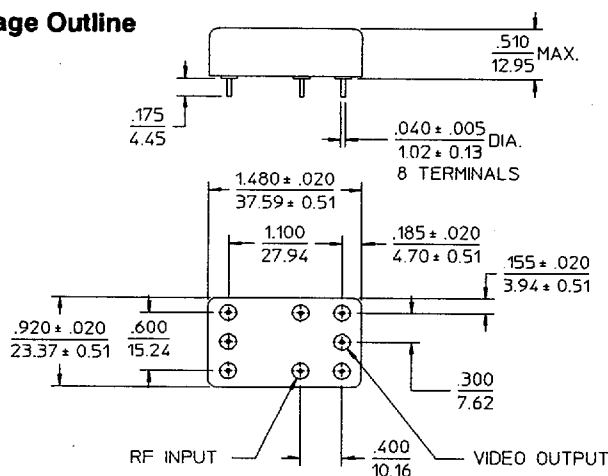
Higher Frequencies:	see WDP-2R series
Higher Sensitivity:	custom design

Contact MERRIMAC for further details. (1/92)

MERRIMAC custom and catalog Frequency Discriminators are integrated networks which provide a linear output voltage proportional to the deviation from the center frequency control systems requiring a broad pull-in range.

These devices are designed to meet MIL requirements and can be supplied screened for military and space applications.

Package Outline



- NOTES:
1. Tolerance on 3 place decimals $\pm .010(.25)$ except as noted.
 2. Dimensions in inches over millimeters.
 3. Unmarked pins are ground.

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