

FEATURES

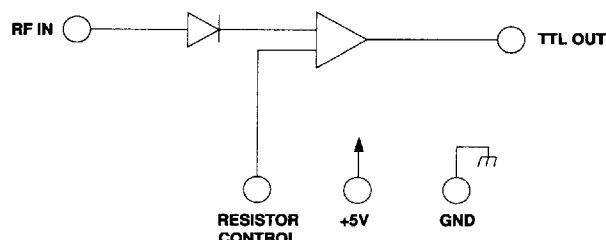
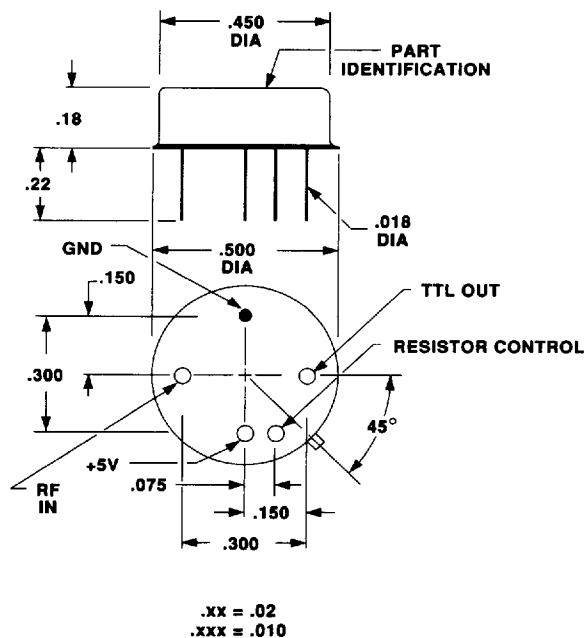
- 10 - 2000 MHz
- -30 to -10 dBm Dynamic Range
- Adjustable Threshold Level
- 1 mA Sink/Source Current
- 5 Pin TO-8 Package



MODEL NO.

DTD01904

**TTL Compatible
Threshold Detector**



GUARANTEED PERFORMANCE

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
OPERATING FREQUENCY	10		2000	MHz	
DYNAMIC RANGE	-30		-10	dBm	
HYSTERESIS		0.8	1.2	dB	
TEMPERATURE STABILITY		±1.4	±1.5	dB	
INPUT FLATNESS		±0.45	±1.0	dB	
RESISTOR CONTROL		35 6500		Ω Ω	P _{IN} = -30 dBm P _{IN} = -10 dBm
RESPONSE TIME (SEE NOTE 1)		275 8.5	350 30	μSEC m SEC	@ -10 dBm @ -30 dBm
INPUT VSWR		1.3/1 1.45/1	2/1 2.2/1		-30 dBm < P _{IN} < -20 dBm -20 dBm < P _{IN} < -10 dBm
OUTPUT CURRENT: SOURCE SINK	-1 1	-5.3 1.13		mA mA	V _{OH} = +2.7V V _{OL} = +0.5V
DC CURRENT		4	5	mA	AT +5 VDC
RF POWER: NO DAMAGE			+13	dBm	
OPERATING TEMPERATURE	-55	+25	+85	°C	TA

NOTE 1: TRANSITION TIME FOR INPUT CHANGE >3 dB ABOVE CW THRESHOLD. OUTPUT LOADING 1 MΩ AND 80 pF.