

THRESHOLD DETECTOR *TMJ9904*

PACKAGE: 4 Pin TO-8, Surface Mount and Connectorized Housing

Features

- External Threshold Control ; Voltage or Resistance
- -22 dBm to + 10 dBm Input Operating Range
- **Wide 10 MHz to 2000 MHz Bandwidth**

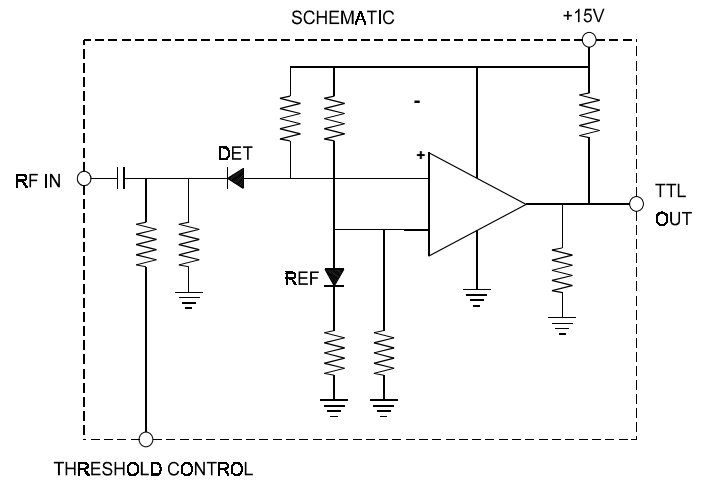
Specifications

CHARACTERISTIC	TYPICAL Ta = 0 to 60 °C	MIN/MAX Ta = -55 °C to +85 °C
Input Flatness (dB) P = -22 to + 10dBm	+/- 1.0	+/- 1.5 Max.
Input VSWR (Max)	<1.75:1	2.0:1 Max.
Threshold Control Level (V/Ohms)		
@ P _{IN} = -22 dBm	.023/180	-
@ P _{IN} = -20 dBm	.026/200	-
@ P _{IN} = 0 dBm	.265/2.0K	-
@ P _{IN} = +10 dBm	.870/6.5K	-
Threshold Temp. Stability (dB)		
@ P _{IN} = -22 dBm	-	+/- 2.5 Max.
@ P _{IN} = -20 dBm	-	+/- 1.5 Max.
@ P _{IN} = 0 dBm	-	+/- 1.0 Max.
@ P _{IN} = +10 dBm	-	+/- 0.5 Max.
Threshold Hysteresis		
Voltage Control (dB)	<0.1	-
Resistance Control (dB)	>1.0	-
Output @ P _{IN} = Threshold (V)	3.2	2.7 Min
Output Short Circuit Current (mA)	8	3.0 Min.
Rise Time/Fall Time (ns)	100	125
Power		
Vdc	+15	+15
m A	3	5 Max.

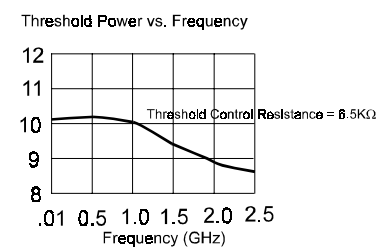
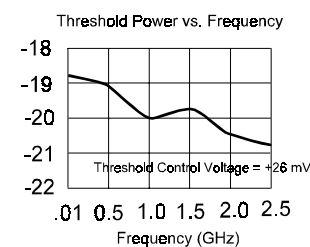
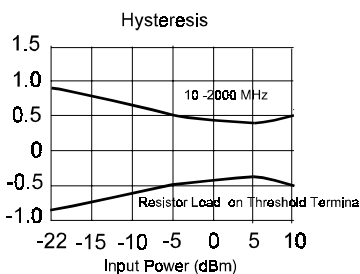
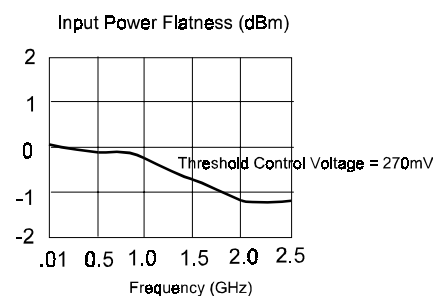
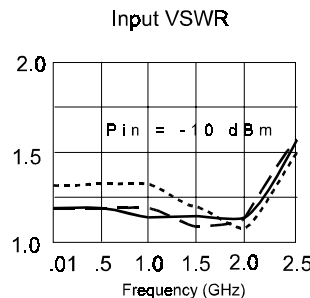
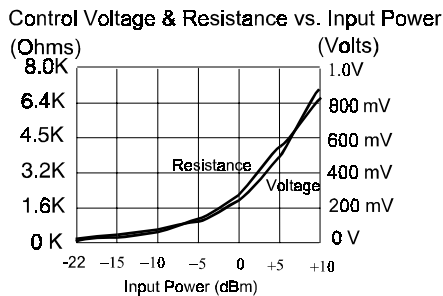
Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

Operating Case Temperature..... - 55 °C to + 125 °C
 Storage Temperature..... -62 °C to + 150 °C
 Continuous RF Input Power.....+ 15 dBm
 DC Voltage.....+ 17 Volts



Typical Performance Data



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