

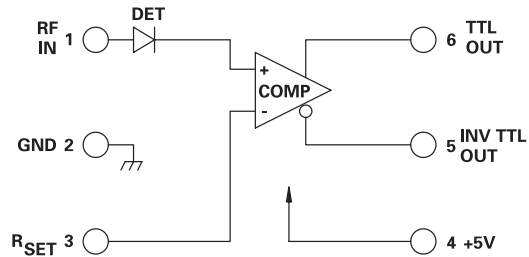
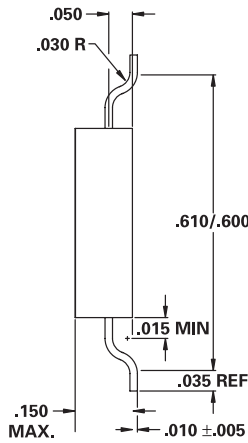
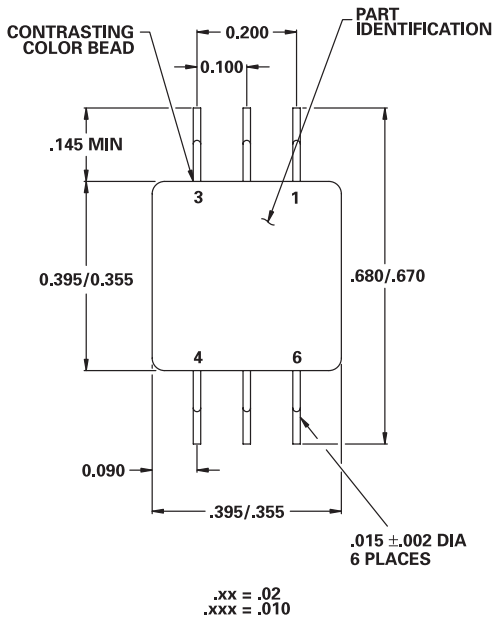
# MODEL NUMBER DTD05097

# Threshold Detector

## FEATURES

- 200-2100 MHz
- Surface Mount Package
- 1 dB Hysteresis
- 15 dB Dynamic Range

TD



## GUARANTEED PERFORMANCE

| Parameter             | Min | Typ    | Max   | Units | Conditions             |
|-----------------------|-----|--------|-------|-------|------------------------|
| Operating Frequency   | 200 |        | 2100  | MHz   |                        |
| Dynamic Range         | -12 |        | +3.0  | dBm   |                        |
| Hysteresis            |     | 1.0    | 1.2   | dB    |                        |
| Temperature Stability |     | ±0.50  | ±1.5  | dB    |                        |
| Input Flatness        |     | ±0.45  | ±1.5  | dB    |                        |
| Response Time         |     | 0.30   | 5     | µSec  | 0 dBm                  |
| Input VSWR            |     | 1.09/1 | 2.0/1 |       |                        |
| RF Input Power        |     |        | +13   | dBm   | No Damage              |
| Output Current        |     | 2.80   |       | mA    | Source<br>VOH = +2.7 V |
|                       |     | 16.9   |       | mA    | Sink<br>VOL = +0.5 V   |
| DC Current            |     | 2.30   | 5     | mA    | At +5 VDC              |
| Operating Temperature | -40 | +25    | +85   | °C    | TA                     |
| Storage Temperature   | -55 | +25    | +85   | °C    | TA                     |