

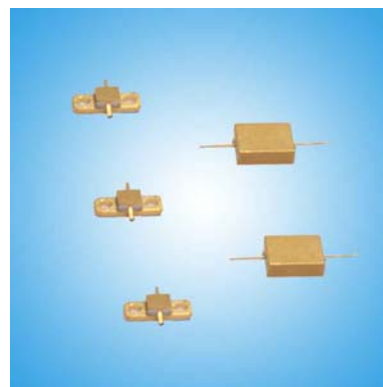


TUNNEL (BACK) DIODE DETECTORS FOR STRIPLINE/MICROSTRIP ASSEMBLIES

0.1 - 18 GHz

FEATURES

- Drop-In Miniature Construction
- Very Low Output Resistance
- Fast Pulse Detecting Capability (less than 5nsec Typical Rise Time)
- Broadband, Flat Frequency Response
- Excellent Temperature Stability
- Very Low 1/f Noise



APPLICATIONS

- Radar Equipment
- Transmitter Monitoring
- Power and Signal Monitoring
- Missile Guidance Systems

ENVIRONMENTAL RATINGS

Max Input Power.....+17dBm or 50 mW
 Operating Temperature Range.....-54°C to +100°C
 Storage Temperature Range.....-54°C to +100°C
 Soldering Temperate..... 230°C, 5 sec

Specifications: (@ +25°C, Up to -20 dBm Power Input)

MODEL ^{1,3}	FREQ. RANGE (GHz)	MINIMUM SENSITIVITY K (mV / mW)	TYPICAL ² TSS (dBm)	MAXIMUM FLATNESS (+/-dB)	TYPICAL VSWR	NOMINAL OUTPUT		PACKAGE ³ STYLE
						CAP. (pF)	RES. (OHM)	
DDT002 DDT004	0.1 - 2.0 0.1 - 4.0	1000 900	-51 -50	0.3 0.5	1.5:1 2:1	150 150	250 250	K, Z1 K, Z1
DT0105 DT0110	0.1 - 0.5 0.1 - 1.0	1000 800	-51 -50	0.75 0.75	2:1 2:1	150 150	150 130	K K
DT0520 DT2060	0.5 - 2.0 2.0 - 6.0	800 800	-50 -50	0.7 0.7	3:1 4:1	50 10	130 130	K K, Z1
DT2080 DT2012	2.0 - 8.0 2.0 - 12.0	750 700	-50 -50	1.0 1.2	4:1 4:1	10 10	130 130	K, Z1 K, Z1
DT6018 DT2018 DT1018	6.0 - 18.0 2.0 - 18.0 1.0 - 18.0	600 600 550	-49 -49 -48	1.0 1.5 1.5	3:1 4:1 4:1	10 10 20	130 130 130	K, Z1 K, Z1 K, Z1

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.
 Note 2: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.
 Note 3: Add "K" or "Z1" to the end model number for package style desired.

For Package Outlines see Outline Drawings Page