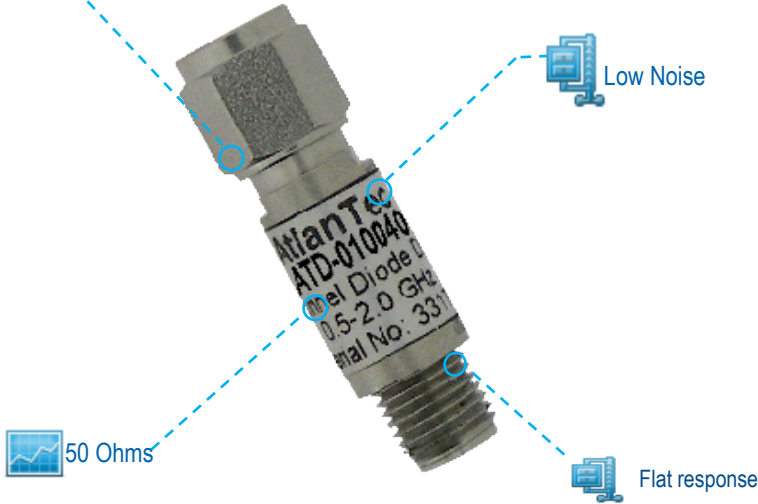


## Tunnel Diode Detectors

- 1 - 26.5 GHz
- Flat Response
- Low Rise Time
- High Temperature Stability
- Low Noise
- Low Output Resistance
- No Bias



Operating frequency range 1-26.5GHz



General Specifications	
Impedance	50 ohms
Max. Input Power	50mW CW
Output Resistance	125 ohm typ.
Rise Time	< 5nsec typ.
Temp. Stability	+/-0.5dB typ.
Operating Temp.	-55+100C
Shock	50g, 11msec
Vibration	20g, 100-2000 Hz
Standard Output Polarity	Negative
Optional Output Polarity	Positive (suffix "P")
TSS Video Bandwidth	2MHz
TSS Amplifier NF	2dB
Specification Conditions	+25C, < -20dBm input power

Model No.	Freq. Range (GHz)	Sensitivity K (mV/mW Min.)	TSS (dBm Min.)	Flatness (+/-dB Max.)	VSWR (Typ.)	Output Capacitance (pF)	Input Conn.	Output Conn.	Overall Length ins (mm)
ATD-010040	1.0-4.0	800	-50	0.7	2.5:1	20	SMA(M)	SMA(F)	1.16 (29.5)
ATD-080120	8.0-12.0	800	-50	0.5	2.5:1	10	SMA(M)	SMA(F)	1.16 (29.5)
ATD-120180	12.0-18.0	750	-50	0.7	2.5:1	10	SMA(M)	SMA(F)	1.16 (29.5)
ATD-180265	18.0-26.5	400	-47	1.0	3.0:1	10	SMA(M)	SMA(F)	1.16 (29.5)

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

