



FEATURES

- 1 nsec Typical Rise Time Response (into 50 Ohm load through 50 Ohm cable)
- Built-in 1 Watt CW Protection Circuit
- Flat Frequency Response (± 0.5 dB typical)
- Matched Input for Low VSWR (2:1 max for power up to +10dBm)
- Stable Output Over Temperature Range (± 0.5 dB typical, -15°C to $+85^{\circ}\text{C}$)
- Miniature Size Available
- Hermetically Sealed Module for Ruggedness



APPLICATIONS

- Direct Measurement of Pulse Rise Time, Pulse Width and Pulse Power
- CW Power Measurements
- Fast Feedback Leveling Circuit

ENVIRONMENTAL RATINGS

Max Input Power..... 1 Watt CW or pulse
(built-in protection circuit)
Operating Temperature Range..... -55°C to $+100^{\circ}\text{C}$
Storage Temperature Range..... -55°C to $+100^{\circ}\text{C}$
Shock..... 50G, 11 msec
Vibration..... 20G, 100 to 2000 Hz

Specifications: (@ $+25^{\circ}\text{C}$)

MODEL ¹	FREQUENCY RANGE ² (GHz)	OUTPUT		MAXIMUM INPUT POWER ³ (WATTS)	MAXIMUM VSWR ⁴	CONNECTOR		SIZE (INCHES)	
		TYPICAL SENSITIVITY K (mV / mW)	RISE TIME (nsec)			INPUT	OUTPUT	LENGTH	DIA.
DTM180AA	1.0 – 18.0	300 (open load) 90 (50 ohm load)	2 (max) 1 (typical; 50 ohm, 10 pF max load)	1	2:1	SMA (M)	SMA (F)	1.15	0.32
DTM180AB				1	2:1	SMA (M)	BNC (F)	2.46	0.56
DTM180NB				1	2:1	Type N (M)	BNC (F)	2.46	0.75
DTM1807B				1	2:1	APC-7	BNC (F)	2.60	0.75

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.

Note 2: Usable over 0.5 to 20 GHz.

Note 3: CW or pulse.

Note 4: VSWR listed for up to +10dBm input.

