

SPECIFICATIONS

GENERAL		
Frequency Range Band A Band B	300 MHz to 950 MHz (Option P2) 925 MHz to 18 GHz	
Pulse Characteristics Pulse width Pulse repetition freq. Time between pulses	100 nsec min. (measured at 3 dB points) Minimum-50 Hz normal, 0 Hz rear panel selected, Maximum - 2.5 MHz 300 nsec Minimum	
Accuracy CW or pulses > 100 μ sec Pulse < 100 μ sec	Time base accuracy ± 1 count Time base accuracy \pm averaging error \pm gate error	
Averaging error (kHz rms)	Band A	Band B
100 μ s Gate	$\frac{200}{\sqrt{PW-.03}}$	$\frac{100}{\sqrt{PW-.03}}$
1 ms Gate	$\frac{60}{\sqrt{PW-.03}}$	$\frac{30}{\sqrt{PW-.03}}$
Gate error (max.)	$\pm \frac{100 \text{ kHz}}{PW-.03}$	$\pm \frac{40 \text{ kHz}}{PW-.03}$
	PW = pulse width in μ s.	
Time Base	Standard	Option P1
Oscillator Type	Room Temperature Crystal	Temperature Compensated Crystal (TCXO)
Crystal frequency	10 MHz	
Stability Aging rate	$< 3 \times 10^{-7} $ / mon.	
Temperature (0-50°C)	$< 3 \times 10^{-5} $	$< 2 \times 10^{-6} $
Line voltage	$\pm 10\%$ change produces frequency shift $< 1 \times 10^{-7} $	
Warm up time	None required	
Sensitivity Band A (Opt. P2) Band B	300 to 950 MHz -10 dBm peak 925 MHz to 10 GHz -10 dBm peak 10 GHz to 18 GHz -5 dBm peak	
FM Tolerance Band B (minimum)	CW: 40 MHz p-p deviation for mod. rates DC-10 MHz. PULSE (w/o Input Inhibit): 20 MHz max. freq. shift across pulse. FREQUENCY PROFILE (using Input Inhibit): 20 MHz max. freq. shift during input inhibit pulse.	

GENERAL, continued		
Maximum Input Level (peak) Band A 300 to 950 MHz (Opt. P2) Band B 925 MHz to 18 GHz	Operating +10 dBm +10 dBm	Burnout Level +27 dBm +30 dBm
Input Impedance Connector	Band A (Opt. P2) 50 Ω nom. BNC	Band B 50 Ω nom. Type N precision
Measurement Speed (Band B Only) Acquisition Time PRF > 100 Hz PRF < 100 Hz	100 msec + 50 msec/GHz $100 \text{ msec} + \frac{5}{\text{PRF}} \text{ sec/GHz}$	
Reading Time Band B (sec) 100 μ s Gate 1 ms Gate	Band A $\frac{400}{(PW-.03)(PRF)}$ $\frac{4000}{(PW-.03)(PRF)}$	Band B $\frac{100}{(PW-.03)(PRF)}$ $\frac{1000}{(PW-.03)(PRF)}$
	PW = pulse width (μ sec) PRF = pulse repetition frequency (Hz)	
Display	7 digit LED with fixed decimal point. Leading zero suppression.	
Resolution	10 kHz, 100 kHz, 1 MHz	
Power	100/120/220/240 VAC $\pm 10\%$, 50-60 Hz, 100 watts nominal.	
Operating Temperature	0 to 50°C	
Weight	Net 30 lbs. Shipping 35 lbs.	
Dimensions	3.5" high and 16.75" wide and 19" deep	
Accessories Furnished	8 foot power cord and instruction manual	
Accessories Available	Model 400 Delay Generator. Carrying Case. P/N 5700001 Rack Mtg. Kit. P/N 2010008	

