

SS7301 - Features and Benefits



Delivery Detail: 1 week
Payment Terms: T/T, Western Union

- High accuracy, the resolution is 10 digits /s.
- Single resolution can reach 500ps.
- The frequency measurement of CH1 can reach to 200MHz.
- The maximum frequency's measurement can reach to 16 GHz (optional)
- 16-bit Microchip microcontroller is used and the speed of data processing is fast.
- Large scale integrated circuit and CPLD and high reliability.
- With the functions of limit and mathematics for frequency measurement
- With the statistics functions of average, maximum value, minimum value, PPM, standard deviation and Allan Variance for frequency measurement
- Interface: USB, RS232 and GPIB (optional).
- High-stability crystal oscillator is optional.

Specifications	Measurement Resolution	10 digits /s	
	Frequency	CH1	0.001Hz ~ 200 MHz
		CH2	optional: 3GHz, 6.5GHz
		CH3	optional: 3GHz, 6.5GHz, 12.4GHz, 16GHz
	Measurement Resolution	5ns ~1000s	
	Input	Dynamic Range	50mVrms~1.0Vrms (Sine); 150mV _{p-p} ~4.5V _{p-p} (Pulse)
		Input Impedance	1MΩ/35pF or 50Ω
		Coupling Mode	AC or DC
		Input Trigger Mode	Rising edge or falling edge
		Input Attenuation	x1 or x10
		Low-pass filter	Ending frequency is around 100 kHz
		Trigger level	-5.000V~+5.000V (Step 5mV)
	Frequency Ratio	Support	
	Frequency Self-test	Support	
	Up/Low Limit	"Limit" light on shows the result out of range, off shows within range	
Statistics Calculation	Multi-average, Max., Min., PPM, SD, Allan Variance		
Time Base	Nominal frequency	10MHz	
	Time base input	Frequency :5MHz or 10MHz Amplitude: ≥1V _{p-p}	
	Time base output	Frequency :10MHz Sine Amplitude: ≥2.5V _{p-p}	
	Standard Time Base	Accuracy: 5×10 ⁻⁸ Daily Aging: 1×10 ⁻⁹ /day	
	Optional Time Base	Accuracy: 5×10 ⁻⁸ Daily Aging: 5×10 ⁻¹⁰ /day	
Remote programmable interface	USB, RS232 are standard and GPIB is optional.		
Dimensions	375×105×235 mm		
Weight	3.7kg		

Channel Options	Options	Frequency Range	Dynamic Range
	3GHz	100MHz~3GHz	-27dBm~+19dBm (100MHz~2.6GHz) -15dBm~+19dBm (2.6GHz~3GHz)
	6.5GHz	200MHz~6.5GHz	200MHz~400MHz (-15dBm~+13dBm) 400MHz~6.5GHz(-20dBm ~+13dBm)
	12.4GHz	6.5GHz~12.4GHz	-18dBm ~ +10dBm
	16GHz	6.5GHz~16GHz	6.5GHz~12.4GHz(-18dBm ~ +10dBm); 12.4GHz~16GHz(-15dBm ~ +10dBm)