

## RSR 2.5 GHz FREQUENCY COUNTER

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### General Specifications

Display	13mm (0.5") LCD (Liquid Crystal Display), 8 digits.		
Measurement	Frequency, Data hold, Relative, Memory(max., min., average), Period.		
Range	2500 MHz	50 MHz to 2500 MHz (typical max. 2600 MHz)	
	100 MHz	5 MHz to 120 MHz.	
	10 MHz	10 Hz to 10 MHz	
	Period	10 Hz to 10 MHz	
Resolution, Sample Time	Ref. the following "Table for Resolution & Sample Time".		
Sensitivity (rms)	2500 MHz range	50 MHz – 75 MHz	≤ 100 mV
		76 MHz – 2500 MHz	≤ 50 mV
	100 MHz range	5 MHz – 100 MHz	≤ 50 mV
		> 100MHz to 120MHz	≤ 100 mV
	10 MHz	≤ 50 mV	
	Period	≤ 50 mV	
Frequency Accuracy	± (4 PPM +1 d), (23 ± 5 °C, after calibration).		
Time Base circuit	4.194 MHz quartz crystal.		
Time Base Temp. Coefficient	0.1 PPM/per °C (typical, 23 ± 5 °C).		
Over-input	2500 MHz & 100 MHz range : Max. 5V peak to peak. 10 MHz & Period range : Max. 250 V peak to peak		
Input Connector	BNC, female.		
Case	Durable & strong ABS-plastic housing.		
Operating Temp.	0°C to 50°C ( 32°F to 122°F ).		
Operating Humidity	Less than 80% RH.		
Power Supply	4 x 1.5 V AA(UM-3) battery.		

Power Consumption	2500 MHz & 100 MHz range : Approx. DC 105 mA.	
	10 MHz & Period range Approx. DC 45 mA.	
AC Adapter Power Input	Optional, 9V DC , 300 to 500 mA rating, central positive for socket.	
Power Off	Automatic power off & manual power off.	
Dimension	173 x 80 x 35mm (6.8 x 3.1 x 1.4 inch).	
Weight	340 g/0.75 LB (including battery).	
Standard Accessories	Instruction Manual ..... 1 PC.	
Optional Accessories	AT-20	Telescoping RF pick-up antenna with BNC connector.
	PB-21	Direct probe with BNC connector & alligator clip pair. (Be used only for the measuring frequency < 500 MHz)
	CA-03	Soft carrying case.

### Table for Resolution & Sample Time

Range	Gate Time Select	Resolution	Sampling Time
2500 MHz	FAST	1000 Hz	0.5 SEC
	SLOW	100 Hz	2.75 SEC
	SLOW(select 1)	200 Hz	1.5 SEC
	SLOW(select 2)	500 Hz	0.75 SEC
100 MHz	FAST	100 Hz	0.75 SEC
	SLOW	10 Hz	6 SEC
	SLOW(select 1)	20 Hz	5 SEC
	SLOW(select 2)	50 Hz	1.5 SEC
10 MHz	FAST	10 Hz	0.5 SEC
	SLOW	1 Hz	1.25 SEC
	SLOW(select 1)	0.2 Hz	6 SEC
	SLOW(select 2)	0.1 Hz	11 SEC