

SS7406/7406C/7406R Universal Frequency Counter/Timer/Analyzer



Features

- Minimum measuring resolution 11 digits/s
- Time resolution 25ps (Typ.)
- 4.3' TFT-LCD display to show abundant information also trendgram and histogram of statistical calculation visually
- Firm and sophisticated standard 2U design
- Standard interface of RS-232, GPIB and LAN

Specification

SS7406		SS7406C		SS7406R	
Measuring Functions					
Frequency Range	Channel 1: 1mHz ~ 200MHz				
	Channel 2: 1mHz ~ 200MHz				
	Channel 3: 3GHz/6.5GHz/12.4GHz/16GHz/20GHz/26.5GHz/40GHz (option)				
Measurement Resolution	11 digits/s				
Period	5ns ~ 1000s				
Time Interval Range	1ns ~ 10000s				
Time Resolution	25 ps				
Pulse Width	1ns ~ 10000s				
Duty Cycle	1% ~ 99%				
Totalize	0 ~ 1×10 ¹³				
Phase Difference	1° ~ 359°				
Input					
Dynamic Range	50mVrms ~ 1.0Vrms (Sine), 150mVPP ~ 4.5VPP(Pulse)				
Input Impedance	1MΩ//35pF or 50Ω				
Coupling Mode	AC or DC				
Input Attenuation	×1 or ×10				
Trigger Level	-5.000V ~ +5.000V, min. step 1mV or auto trigger level				
Other Functions					
Frequency Ratio	ratio value range : 0.00001~999999				
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				
Standard Time Base					
Daily Aging	1×10 ⁻⁸ /day				
Yearly Aging	5×10 ⁻⁷ /year				
Optional Time Base					
Daily Aging	5×10 ⁻¹⁰ /day				
Yearly Aging	5×10 ⁻⁸ /year				
Receiving System			GPS, BDS		
Holdover Accuracy			≤5×10 ⁻¹² @24 hours		
GPS Discipling					
Accuracy			1×10 ⁻⁸		<5×10 ⁻¹¹
Daily Aging			<5×10 ⁻¹⁰ /day		<5×10 ⁻¹² /day (after 3 days)
Channel Options					
	Frequency Range	Dynamic Range			
3.0GHz	100MHz ~ 3GHz	-27dBm~+19dBm (100MHz~2.6GHz) -15dBm~+19dBm (2.6GHz~3.0GHz)			
6.5GHz	200MHz ~ 6.5GHz	-15dBm ~ +13dBm			
12.4GHz	6.5GHz ~ 12.4GHz	-15dBm ~ +10dBm			
16.0GHz	6.5GHz ~ 16GHz	-15dBm ~ +10dBm			
20.0GHz	200MHz~20GHz	-10dBm ~ +10dBm (200MHz~350MHz) -15dBm ~ +10dBm (350MHz~18GHz) -10dBm ~ +10dBm (18GHz~20GHz) -20dBm ~ +10dBm (10GHz~20GHz)			
26.5GHz	10GHz~26.5GHz	-15dBm ~ +10dBm (20GHz~24GHz) -10dBm ~ +10dBm (24GHz~26.5GHz) -29dBm~+15dBm (18GHz~20GHz)			
40GHz	18GHz~40GHz	-20dBm~+15dBm (20GHz~28GHz) -29dBm~+10dBm (28GHz~37GHz) -20dBm~+13dBm (37GHz~40GHz)			
General Characteristics					
Interface	RS-232, GPIB, LAN, USB Host				
Power	Standard: AC220V (10%), 50Hz (5%), <70VA Optional: AC110V (10%), 60Hz (5%), <70VA				
Dimension & Weight	454×98×486mm, 7.3Kg				

Standard Accessories

Power Cord	1
BNC Testing Cable	1
CD(Software+ User's Guide)	1