Universal Frequency
Counter/Timer/Analyzer

multicomp PRO

MP700641	MP7400642	MP7400643

Features

- Minimum measuring resolution 11 digits/s
- Maximum frequency's measurement can reach to 6.5GHz
- Measures Frequency, Period, Duty Cycle, Frequency Ratio, Totalize, Phase Difference, Pulse Width, Time Interval and DCV.
- Utility statistics functions of multi-average, maximum, minimum, PPM, Standard deviation and Allan Variance for frequency measurement
- Stores 15 group status

Specification Table

Characteristics	Part Number		
	MP700641	MP7400642	MP7400643
Measuring Functions			
Frequency Range CH1 CH2 CH3	0.001Hz ~ 200MHz 0.001Hz ~ 200MHz 6.5GHz		
Display Resolution	8 digits/s	10 digits/s	11 digits/s
Period	5ns ~ 1000s		
Time Interval Range	10ns ~ 10000s	1ns ~ 10000s	
Time Resolution	2.5ns	500ps	150ps
Pulse Width	30ns ~ 5000s	1ns ~ 10000s	
Duty Cycle	1% ~ 99%		
Totalize	$0 \sim 1 \times 10^{13}$		
Phase Difference	1° ~ 359°		
Input All Models			
Dynamic Range	50mVrms ~ 1.0Vrms (Sine), 150mVpp ~ 4.5Vpp (Pulse)		
Input Impedance	1MΩ//35pF or 50Ω		
Input Attenuation	x1 or x1O		
Trigger Level	-5.000V ~ +5.000V		
Other Functions all Models			
Frequency Ratio	-		
Up/Low Limit	"Limit" light on shows the result out of range "Limit" light off shows within range		
Statistics Calculation	Multi-average, Max, Min, PPM, SD, Allan Variance		

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Characteristics	Part Number		
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Standard Time Base all Models			
Accuracy	5×10^{-8}		
Daily Aging	1×10^{-8}/day		
Yearly Aging	5×10^{-7}/year		
Channel Options all Models			
	Frequency Range	**Dynamic Range**	
6.5GHz	200MHz ~ 6.5GHz	-15dBm ~ +13dBm	
General Characteristics			
Interface	USB, RS232, GPIB		
Power	AC220V(10%) or AC110V(10% 50Hz(5%) or 60Hz(5%)		
Dimensions	375mm × 105mm × 235mm		
Weight	3.7kg		4.2kg

Standard Accessories

Power Cord

BNC Testing Cable

CD
(Software & User Guide)

Part Number Table

Description	Part Number
Frequency Counter, 3 Channels, 6.5Ghz, 8 Digits	MP700641
Frequency Counter, 3 Channels, 6.5Ghz, 10 Digits	MP700642
Frequency Counter, 3 Channels, 6.5Ghz, 11 Digits	MP700643

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