

# UTG9000 SERIES

DDS Function Generators

UTG9005B ■ UTG9010B ■ UTG9020B



## SPECIFICATION

Features	UTG9005B	UTG9010B	UTG9020B
<b>Waveforms</b>	Sine, Square, Triangle, Ramp up, Ramp down, Random Noise, SIN(X)/X, Exponential Rise, Exponential Fall, Pulse.		
<b>Standard Waveforms</b>			
<b>Amplitude Characteristics</b>			
Range (no load)	from 1mVp-p to 20Vp-p		
Accuracy	±5% (Sine at 1kHz)		
Resolution	0.01mV		
<b>Frequency Characteristics</b>			
Range of Sine	from 1μHz to 5MHz	from 1μHz to 10MHz	from 1μHz to 20MHz
Range of Square		from 1μHz to 5MHz	
Range of Other Waveforms		from 1μHz to 1MHz	
Stability		50ppm (from -10°C to 40°C)	
Resolution		0.1μHz or 8 digit	
Accuracy		0.1μHz (<100Hz), 0.4Hz (>100Hz)	
<b>Signal Characteristics</b>			
Harmonic Distortion of Sine	<20kHz: -60dBc, 20kHz to 1MHz: -50dBc, 1MHz to 10MHz: -40dBc, 10MHz to 20MHz: -30dBc		
Square, Pulse			
Rise/Fall Time	<20ns		
Overshoot	<5%		
Asymmetry	1% + 20ns		
Duty Cycle of Pulse	0.1% to 99.9%		
Linearity of Triangle, Ramp	<1%		
<b>Modulation Characteristics</b>			
Modulation Mode	Linear sweep (LIN SWP), logarithmic sweep (LOG SWP), FSK, PSK, ASK, BURST, INT FM, INT PM, INT AM, and external AM (EXT AM)		
<b>Output Characteristics</b>			
Output A (Main Output)	50Ω		
Output Impedance	from -100% to 100% Vpeak		
DC Offset			
Output B			
Waveform	All internal waveform		
Amplitude	200mVp-p to 20Vp-p (no load)		
Output Impedance	600Ω		
Frequency Range	0.1Hz to 20kHz		
Frequency Counter	Frequency Range: 1Hz to 100MHz, Amplitude Range: 100mV to 5V		
RS-232 Interface	9600Baud, N, 8, 1		

## GENERAL CHARACTERISTICS

Power	AC 220V/50Hz
Product Colour	Red and Grey
Product Net Weight	3kgs
Product Size	320mm x 240mm x 100mm
Standard Accessories	BNC to BNC Cable, Power Cord, English Manual
Standard Individual Packing	Gift Box
Standard Quantity Per Carton	6 pcs
Standard Carton Measurement	660 x 410 x 600mm (0.16 CBM Per Export Carton)
Standard Carton Gross Weight	21kg