

DDS Function Generator

ARBITRARY WAVEFORM, 1uHz~20MHz



TFG3600E SERIES



FEATURES

- Frequency range 1μHz~5MHz/10MHz/15MHz/20MHz
- 2 output channels
- 3.5-inch TFT LCD display
- Direct Digital Synthesis technology (DDS)
- Min. output amplitude 1mV (50Ω) with good stability
- Sampling rate 100MSa/s, vertical resolution 8 bit, waveform length 1024 points
- Arbitrary waveform function
- 32 built-in waveforms and 8 user-defined arbitrary waveforms
- 40 sets save & recall for panel settings
- Modulations: FM, FSK, ASK, PSK
- Frequency sweep, amplitude sweep, burst and TTL output functions
- Over voltage, over current, short circuit and reverse voltage protections
- High speed rotary dial and keypad input
- Standard RS-232 interface for PC remote control
- Standard 200MHz external frequency counter
- Optional power amplifier

DDS Function Generator

ARBITRARY WAVEFORM, 1uHz~20MHz

SPECIFICATIONS

Model		TFG-3605E	TFG-3610E	TFG-3615E	TFG-3620E
Waveform					
Output waveform		32 built-in waveforms, including Sine, Square, Triangle, Ramp, Pulse, etc. 8 user-defined arbitrary waveforms			
Waveform length		1024 points			
Vertical resolution		8 bits			
Sampling rate		100MSa/s			
Sine	Harmonic distortion	≥40dBc (<1MHz); ≥35dBc (1~20MHz)			
	Total distortion	≤1% (20Hz~200kHz)			
Square	Rise/fall time	≤35ns			
	Duty cycle	1%~99%			
Frequency					
Range	Sine	1μHz~5MHz	1μHz~10MHz	1μHz~15MHz	1μHz~20MHz
	Square	1μHz~5MHz			
	Other	1μHz~1MHz			
Resolution		1μHz			
Accuracy		±5x10 ⁻⁵			
Output characteristics					
Amplitude	Range	2mVpp~20Vpp (open circuit)			
	Resolution	20mVpp (amplitude>2V); 2mVpp (amplitude<2V)			
	Accuracy	±(1%+2mVrms) (open circuit, 1kHz, sine)			
	Flatness	±5% (<10MHz); ±10% (>10MHz)			
	Output impedance	50Ω			
Offset	Range	±10V (open circuit, attenuation 0 dB)			
	Resolution	20mVdc			
	Accuracy	±(1%+20mVdc)			
Sweep					
Time		100ms~900s			
Direction		Up, Down, Up-Down			
Mode		Linearity, Logarithmic			
Modulations		FM, FSK, ASK, PSK, Burst, 200MHz frequency counter, Power amplifier			
CHB output characteristics					
Output waveform		32 built-in waveforms, including Sine, Square, Triangle, Ramp, Pulse, etc. 8 user-defined arbitrary waveforms			
Waveform length		1024 points			
Vertical resolution		8 bits			
Sampling rate		12.5MSa/s			
Frequency range		Sine: 1μHz~1MHz; Other: 1μHz~100kHz			
Frequency resolution		1μHz			
Frequency accuracy		±1x10 ⁻⁵			
Amplitude range		50mVpp~20Vpp (open circuit)			
Amplitude resolution		20mVpp			
Output impedance		50Ω			
General					
Interface		RS-232 interface			
Power source		AC110V/220V±10% selectable, 50/60Hz, Max. 45VA			
Accessories		Power cord x1, Operation manual x1, Software CD x1, RS-232 cable x1, BNC-BNC cable x1, Test lead x1			
Dimension (WxHxD)		260x110x385mm			
Weight		3.5kg			