

DDS 雙輸出信號產生器

TFG-3200E DDS 雙輸出信號產生器



TFG-3200E系列

- 最大頻率輸出 5MHz/10MHz
- 單色 LCD 顯示 / 雙通道輸出
- 採用先進 DDS 技術
- 最小輸出 1mV (50Ω) 穩定波形
- 32 種內建波形
- 40 組面板設定存儲及呼叫
- FM, FSK, ASK, PSK 多種調製功能
- 頻率掃描、觸發、TTL 輸出
- 過電壓、過電流、短路保護、反灌電壓保護功能



TFG-3210E

產品規格

型號	TFG-3205E	TFG-3210E
Frequency range	1 μ Hz~5MHz	1 μ Hz~10MHz
Waveform (CHA)		
Type	32 built-in waveforms, including Sine, Square, Triangle, Ramp, Pulse, etc.	
Length	1024 points	
Vertical resolution	8 bits	
Sampling rate	100MSa/s	
Harmonic distortion of sine	≥ 40 dBc (<1MHz); ≥ 35 dBc (1MHz~20MHz)	
Total distortion of sine	$\leq 1\%$ (20Hz~200kHz)	
Rise/fall time of square	≤ 35 ns	
Overshoot of square	$\leq 10\%$	
Duty cycle of square	1%~99%	
Frequency (CHA)		
Range	Sine	1 μ Hz~5MHz
	Square	1 μ Hz~5MHz
	Other	1 μ Hz~1MHz
Resolution	1 μ Hz	
Accuracy	$\pm 5 \times 10^{-5}$	
Stability	$\pm 5 \times 10^{-6}$ /3hours	
Amplitude (CHA)		
Range	2mVpp~20Vpp, 1 μ Hz~10MHz (high impedance)	
	2mVpp~15Vpp, 10MHz~15MHz (high impedance)	
	2mVpp~8Vpp, 15MHz~20MHz (high impedance)	
Resolution	20mVpp (amplitude>2Vpp); 2mVpp (amplitude<2Vpp)	
Accuracy	$\pm (1\%+2mVrms)$ (high impedance, RMS, frequency 1kHz)	
Stability	$\pm 0.5\%$ /3hours	
Flatness	$\pm 5\%$ (frequency 10MHz)	
Output impedance	50 Ω	
DC Offset (CHA)		
Range	± 10 V (high impedance, attenuation 0 dB)	
Resolution	20mVdc	
Accuracy	$\pm (1\%+20mVdc)$	
Sweep (CHA)		
Parameter	Frequency, Amplitude	
Range	Free to set starting point and end point	
Time	100ms~900s	
Direction	Up, Down, Up-Down	
Mode	Linearity, Logarithmic	
Control	Auto sweep or manual sweep	

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型號	TFG-3205E	TFG-3210E
Frequency Modulation (FM) (CHA)		
Carrier signal	CHA signal	
Modulating signal	CHB or external signal	
FM deviation	0%~20%	
Burst (CHA)		
Carrier signal	CHA signal	
Trigger signal	TTL_A signal	
Burst counts	1~65000 cycles	
Trigger mode	Internal TTL, External, Single	
Shift Keying (CHA)		
FSK	Free to set the hop frequency and the carrier frequency	
ASK	Free to set the hop amplitude and the carrier amplitude	
PSK	Hop phase: 0~360° , resolution: 1°	
Alternative rate	10ms~60s	
Waveform (CHB)		
Type	32 built-in waveforms, including Sine, Square, Triangle, Ramp, Pulse, etc.	
Length	1024 points	
Vertical resolution	8 bits	
Sampling rate	12.5MSa/s	
Duty cycle of square	1%~99%	
Frequency (CHB)		
Range	Sine: 1 μ Hz~1MHz; Other: 1 μ Hz~100kHz	
Resolution	1 μ Hz	
Accuracy	±1×10 ⁻⁵	
Amplitude (CHB)		
Range	50mVpp~20Vpp (high impedance)	
Resolution	20mVpp	
Output impedance	50Ω	
Burst (CHB)		
Carrier signal	CHB signal	
Trigger signal	TTL_B signal	
Burst counts	1~65000 cycles	
Trigger mode	Internal TTL, External, Single	
TTL output		
Waveform	Square, rise/fall time ≤ 20ns	
Frequency	10mHz~1MHz	
Amplitude	TTL, CMOS compatible, low4V	
Common characteristics		
Operation characteristics	Key operation for all functions, Menu display, Rotary dial adjustment	
Display	Mono LCD	
Language	English, Chinese (simplified), Chinese (traditional)	
Power source	AC110V/220V ± 10% selectable, 50/60Hz, Max. 45VA	
Environmental condition	0~40°C , <80%RH	
Standard accessories	Power cord × 1, Operation manual × 1, BNC-BNC cable × 1, Test lead × 1	
Dimension	385×260×110mm	
Weight	3.5kg	

訂購資訊

型號	TFG-3205E	TFG-3210E
Frequency range	1 μ Hz~5MHz	1 μ Hz~10MHz
Standard accessories	Power cord × 1, Operation manual × 1, TL-101 × 1, TL-102 × 1	