KUSAM-MECO®
An ISO 9001:2015 Company

FUNCTION / ARBITRARY WAVEFORM GENERATOR
MODEL - TFG6803

THINK SAFETY
THINK KUSAM-MECO®

Features

- 250MSa/s sample rate, 16bit vertical resolution and 16Mpts waveform length
- Rise/fall time of Square: ≤4.2ns
- Removable PA (option)
- Optional IOT interface
- High precision frequency counter
- 7"touch screen display

NEW





* without option PA

Specification

Preliminary Data

Frequency		
Sine/Square		1μHz~35MHz
Pulse		1μHz-25MHz
Ramp		1μHz-3MHz
PRBS		1kbps~60Mbps
Noise (-3dB)		100MHz bandwidth
Other		1μHz~20MHz
Resolution		1μHz or 12 digits
Accuracy		±(20ppm + 14pHz)
Waveform		
Type		165 kinds include: Sine, Square, Ramp, Pulse, Noise, DC, PRBS, user-defined Arbitrary waveform, user-defined harmonic, etc
Smaple Rate		250MSa/s
Vertical Resolution		16 bits
Arbitrary	Sample Rate	1μSa/s~125MSa/s
	Length	2-16Mpts
	Resolution	16 bits
Square	Rise/Fall Time	≤4.2ns
	Duty Cycle	0.0001%~99.9999%
Pulse	Rise/Fall Time	≥8ns
	Width	13ns ~ (period - 13ns)
DC Offset (High-Z)		
Range		±10Vpk(ac+dc)
Resolution		1mVdc
Accuracy		±(|setting value|×1%+amplitude value ×0.5%+2mV)
Sweep		
Range		1μHz ~ upper frequency limit
Type		Linear, logarithmic
Time		1ms to 500s
Burst		
Mode		Triggered, Gated
Period		1μs to 600s
Count		1 to 100000000 cycles
Counter		
Frequency Range		1mHz to 350MHz (DC Couple) 10Hz to 350MHz (AC Couple)
Resolution		8 digits/s
Period and Pulse Width Measurement		100ns to 20s
Duty Cycle Measurement		0.1% to 99.9%

All Specifications are subject to change without prior notice.

Amplitude (High-Z)		
Range		2mVpp~20Vpp, frequency≤10MHz 2mVpp~10Vpp, frequency>10MHz
Resolution		1mVpp or 4digits
Accuracy		±(of settings value×1%+1mV), Sine 1kHz, ≥10mVpp, offset 0V
Modulation		
FM,AM,PM, PWM,Sum	Carrier Waveform	Sine, Square, Ramp (only pulse for PWM), etc.
	Modulating Waveform	Sine, Square, Ramp, etc.
	Modulating Frequency	1mHz to 100kHz
FSK,4FSK,NFSK, PSK,4PSK,NPSK, ASK,OSK	Carrier Waveform	Sine, Square, Ramp, ect
	Hop Frequency	1μHz -upper limits
	Hop Rate	1mHz to 1MHz
General Characteristic		
Power		AC 100~240V, 50/60Hz ±10% , AC 100~120V, 400Hz ±10%
Dimension & Weight		226×200×125mm, Approx. 2.9kg 226×200×166mm, Approx. 3.3kg (if amplifier power is selected)

Standard Accessories

Power Cord	1
BNC cable	1
CD(software+manual)	1

Options

TCXO	±1ppm accuracy, ±1ppm/year aging rate
Power Amplifier	2 times power amplifier, Max output power 8W (8Ω)
IOT interface	Based on LoRa

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