



Delivery Detail: 1 week
Payment Terms: T/T, Western Union



7W(8Ω) power amplifier

MFG-3000CH Series - Features and Benefits

- 3.5 inch TFT LCD display, English/Chinese menu
- Dual independent output channels
- 32 kinds of built-in pre-stored waveforms
- 1μHz Frequency resolution
- 1mV(50Ω) Minimum stable output waveform
- FM, FSK, ASK, PSK modulation functions
- Frequency sweep, amplitude sweep and burst functions
- Over voltage, over current, output short-circuit and reverse voltage protections
- Optional parts: RS232 interface, 200MHz frequency counter,

Output Characteristics of Channel A	Model	MFG-3005CH	MFG-3010CH	MFG-3015CH	MFG-3020CH			
	Frequency range(sine)	1μHz~5MHz	1μHz~10MHz	1μHz~15MHz	1μHz~20MHz			
	Waveform Characteristics							
	Waveform type	32 waveforms including: Sine, Square, Triangle, Ramp, Pulse etc.						
	Waveform length	1024 points						
	Sample rate	100MSa/s						
	Waveform amplitude resolution	8bits						
	Sinusoidal harmonic rejection	≥40dBc (<1MHz), ≥35dBc (1MHz~20MHz)						
	Sine wave total distortion	≤1% (20Hz~200kHz)						
	Square rise/fall edge time	≤35ns						
	Square overshoot	≤10%						
	Square wave duty cycle	1%~99%						
Frequency Characteristics								
Frequency range	Sine: 1μHz~Max.frequency (MHz);		Square: 1μHz~5MHz;					
	Other waveforms: 1μHz~1MHz							
Frequency resolution	1μHz							
Frequency accuracy	±(5×10 ⁻⁵)							
Frequency stability	±5×10 ⁻⁶ /3 hours							
Amplitude Characteristics								
Amplitude range	2mVpp~20Vpp 1μHz~10MHz (high impedance)		2mVpp~15Vpp 10MHz~15MHz (high impedance)					
	2mVpp~8Vpp 15MHz~20MHz (high impedance)							
Amplitude resolution	20mVpp (amplitude>2Vpp), 2mVpp (amplitude<2Vpp)							
Amplitude accuracy	±(1%+2mVrms) (high impedance, true RMS, frequency at 1kHz)							
Amplitude stability	±0.5%/3 hours							
Amplitude flatness	±5% (frequency<10MHz), ±10% (frequency >10MHz)							
Output impedance	50Ω							
DC Offset Characteristics								
Offset range	±10V (high impedance, attenuation 0dB)							
Resolution	20mVdc							
Offset accuracy	±(1%+20mVdc)							



Output Characteristics of Channel A	Sweep Characteristics	
	Sweep type	frequency sweep, amplitude sweep
	Sweep range	free to set the start and stop points
	Sweep time	100ms~900s
	Sweep direction	Up, Down, Up-Down
	Sweep mode	linear, logarithmic
Output Characteristics of Channel B	Control mode	auto sweep or manual sweep
	Frequency Modulation Characteristics	
	Carrier signal	channel A signal
	Modulation signal	internal signal of channel B or external signal
	FM deviation	0%~20%
	Shift Keying Characteristics	
TTL Output	FSK	free to set carrier frequency and hop frequency
	ASK	free to set carrier amplitude and hop amplitude
	PSK	hop phase 0~360°, max. resolution 1°
	Alternative rate	10ms~60s
	Burst Characteristics	
	Carrier signal	channel A signal
General and Optional	Trigger signal	TTL_A signal
	Burst count	1~65000 cycles
	Burst mode	Internal TTL, External, Single
	Waveform Characteristics	
	Waveform type	32 waveforms including: Sine, Square, Triangle, Ramp, Pulse etc.
	Waveform length	1024 points
General and Optional	Sample rate	12.5MSa/s
	Waveform amplitude resolution	8bits
	Square duty cycle	1%~99%
	Frequency Characteristics	
	Frequency range	Sine: 1μHz~1MHz Other waveforms: 1μHz~100kHz
	Frequency resolution	1μHz
General and Optional	Frequency accuracy	±(1×10 ⁻⁵)
	Amplitude Characteristics	
	Amplitude range	50mVpp~20Vpp (high impedance)
	Amplitude resolution	20mVpp
	Output impedance	50Ω
	Burst Characteristics	
General and Optional	Carrier single	channel B signal
	Trigger signal	TTL_B signal
	Burst count	1~65000 cycles
	Burst mode	Internal TTL, External, Single
	Waveform characteristics	Square, rise/fall time≤20ns
	Frequency characteristics	10mHz~1MHz
General and Optional	Amplitude characteristics	TTL, CMOS compatible, low level<0.3V, high level>4V
	Display	3.5 inch TFT LCD display, 320*240, English, Chinese (simplified), Chinese (traditional)
	Dimension (D×W×H)	415mm×295mm×195mm
	Weight	3.5kg
	Remote interface (optional)	RS232 serial interface
	Frequency counter (optional)	Testing frequency range: 1Hz~200MHz; Input signal amplitude: 100mVpp~20Vpp
General and Optional	Power amplifier (optional)	Max. output power: 7W (8Ω), 1W (50Ω); Max. output voltage: 22Vpp; Frequency bandwidth: 1Hz~200kHz