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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Data Sheet

5 MHz Sweep Function Generator Model 4012A



Model 4012A is a popular 5 MHz generator for general bench and lab use with an ideal mixture of features and sweep function at a compelling price.

Features & Benefits

- 0.5 Hz to 5 MHz
- Sine, Square, Triangle, Pulse, and Ramp output
- Coarse and fine tuning knobs
- 4-digit LED display
- Linear and log sweep
- Variable duty cycle
- Variable DC offset
- Variable 20 Vpp output into open circuit (10 Vpp into 50 Ω)

Specifications	4012A
Frequency Characteristics	
Waveforms	Sine, Square, Triangle, ±Pulse, ±Ramp
Range	0.5 Hz to 5 MHz in 7 ranges
Resolution	4 digits
Tuning Range	10:1
Fine	\pm 5% of coarse setting
Variable Duty Cycle	15:85:15 cont variable
Operating Modes	Normal, Sweep, VCG
Output Characteristics	
Impedance	$50 \Omega \pm 10\%$
Level	20 V p-p Open circuit, 10 V p-p into 50 Ω
Amplitude	Variable, 20 dB range typical
Attenuation	$-20 \text{ dB} \pm 1 \text{dB}$
7 atendation	
DC Offset	Preset: ± 0.1 V typical Variable: ± 10 V open-circuit ± 5 into 50 Ω
Sine Wave	
Distortion	<3% typical at 1 kHz
Flatness (Into 50 Ω)	±5% ±(.45 dB) 0.5 Hz to 5 MHz
Square Wave	
Symmetry	0.1 Hz to 100 kHz <2%
Rise time (Into 50 Ω)	≤ 120 nS
Triangle Wave	
Linearity	≥ 98% to 100 kHz
TTL Output	
Level	0.8 V to 2.4 V
Rise time	≤ 20 nS
Duty Cycle	50% typical
CMOS Output	
Max. Frequency	2 MHz
Level	4 V to 14 V \pm 0.5 V p-p continuously variable
Rise Time	\leq 120 nS (Open circuit)
VCG (Voltage controlled ge	enerator)
Input Voltage	$0-10 \text{ V} \pm 1 \text{ V}$ causes a 100:1 frequency change
Impedance	10 kΩ ±5%
Sweep Operation	
Mode	LIN/LOG
Width	100:1 continuously variable
Rate	0.5 s to 30 s continuously variable
Frequency Counter	
Accuracy	Time base accuracy ± 1 count
Time Base Accuracy	±10 ppm (23 °C ± 5 °C)
Display	4 digit LED
General	
AC Input	120/230 VAC \pm 10%, 50/60 Hz, internal jumper selectable
Dimensions (W x H x D)	10.5" x 4.5" x 12.25" (266.7 x 114.3 x 311.15 mm)
Weight	4 lbs (1.8 kg)
	Two-Year Warranty
Included Accessories	Instruction manual, output cable (BNC to alligator clips)
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