



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

Function Generators Models 4010A & 4011A



4010A 2 MHz Function Generator

- 0.2 Hz to 2 MHz
- Sine, Square, Triangle, Pulse & Ramp output
- Variable duty cycle
- Variable DC offset
- Variable amplitude output plus 20dB attenuator
- 20Vpp output into open circuit (10Vpp into 50 Ωs)
- cUL certified



4011A 5 MHz Function Generator

- 0.5 Hz to 5 MHz
- Sine, Square, Triangle, Pulse, & Ramp output
- Coarse and Fine tuning
- 4 digit LED display
- Variable duty cycle
- Variable DC offset
- Variable amplitude output plus 20dB attenuator
- 20Vpp output into open circuit (10Vpp into 50 Ωs)
- cUL certified



Specifications	4010A	4011A
Frequency Characteristics		
Waveforms	Sine, Square, Triangle, ±Pulse, ±Ramp	
Range	0.2 Hz to 2 MHz in 7 ranges	0.5 Hz to 5 MHz in 7 ranges
Resolution	NA	4 digits
Dial Accuracy	±5% typical	NA
Tuning Range	10:1 Does not apply	Coarse, 10:1 Fine ±5% of coarse setting
Variable Duty Cycle	15:85:15 cont variable	15:85:15 Cont variable
Operating Modes	Normal, VCG	
Output Characteristics		
Impedance	50Ω ±10%	
Level	20 V p-p Open circuit, 10V p-p into 50Ω	
Amplitude	Variable, 20 dB range typical	
Attenuation	-20 dB ±1dB	
DC Offset	Preset ±0.1 V typ Variable: ±10V open-circuit ±5 into 50Ω	
Distortion	≤ 4% @ 1 kHz	≤ 3% @ 1 kHz
Flatness	≤ 5% (.45 dB)	
Symmetry	0.5 Hz to 100 KHz ≤ 2%	
Risetime (Into 50Ω)	≤ 120 nS	≤ 20 nS
Linearity	≥ 98% to 100 KHz, ≥ 95% to 2 MHz	
TTL Output		
Level	0.8V to 2.4V	
Rise time (0.8V to 2.9V)	≤ 50 nS	≤ 20 nS
Duty Cycle	50% typical	
CMOS Output		
Max. Frequency	2 MHz	
Level	4V to 14V ±0.5 p-p cont. variable	
Rise Time	≤ 120 nS	
Input VCG		
Input Voltage	0-10V ±1V causes a 100:1 frequency change	
Impedance	10KΩ ±5%	
Frequency Counter INT		
Accuracy	NA	Time Base Acy ±1 count
Time Base Accuracy	NA	±10 PPM (23°C ±5°C)
General		
Display	NA	4 digit LED
AC Input	120/230 VAC ± 10%, 50/60 Hz, internal jumper selectable	
Dimensions (H x W x D)	4.5 x 11.75 x 10.375", (114 x 298 x 264 mm)	
Weight	4 lbs. (1.8 kg)	
Two-Year Warranty		
Standard Accessories	Output cable with BNC to alligator clips, Instruction Manual, Line Cord	
Optional Accessories	Carrying Case (not included): LC-40, TLFG kit	