

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, $\pm$ Pulse, $\pm$ 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	$\pm 5\%$ typical	NA
Tuning Range	10:1 Does not apply	Coarse, 10:1 Fine $\pm 5\%$ of coarse setting
Variable Duty Cycle	15:85:15 cont variable	15:85:15 Cont variable
Operating Modes	Normal, VCG	
Output Characteristics		
Impedance	50 Ω $\pm 10\%$	
Level	20 V p-p Open circuit, 10V p-p into 50 Ω	
Amplitude	Variable, 20 dB range typical	
Attenuation	-20 dB $\pm$ 1dB	
DC Offset	Preset ± 0.1 V typ Variable: ± 10 V open-circuit ± 5 into 50 Ω	
Distortion	$\leq 4\%$ @ 1 kHz	$\leq 3\%$ @ 1 kHz
Flatness	$\leq 5\%$ (.45 dB)	
Symmetry	0.5 Hz to 100 KHz $\leq 2\%$	
Risetime (Into 50 Ω)	≤ 120 nS	≤ 20 nS
Linearity	$\geq 98\%$ to 100 KHz, $\geq 95\%$ 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 ± 1 V causes a 100:1 frequency change	
Impedance	10K Ω $\pm 5\%$	
Frequency Counter INT		
Accuracy	NA	Time Base Accy ± 1 count
Time Base Accuracy	NA	± 10 PPM (23°C $\pm 5^\circ$ C)
General		
Display	NA	4 digit LED
AC Input	120/230 VAC $\pm 10\%$, 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	

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