

Function Generators



4011A



4010A

Model 4011A 5 MHz Function Generator with Digital Display

- 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

Model 4010A 2 MHz Function Generator

- 0.2 Hz to 2 MHz
- Sine, Square, Triangle, Pulse, & Ramp output
- Variable duty cycle
- Variable DC offset

Specifications

models
4011A 4010A

	4011A	4010A
Frequency Characteristics		
Waveforms	Sine, Square, Triangle, \pm Pulse, \pm Ramp	
Range	0.5 Hz to 5 MHz	0.2 Hz to 2 MHz
	in 7 ranges	
Resolution	4 digits	
Dial Accuracy	NA	
Tuning Range	Coarse, 10:1	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	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 \pm 0.1 V typ Variable: \pm 10V open-circuit \pm 5 into 50 Ω	
SINE Wave	Distortion: \leq 3% @ 1 kHz Flatness: \leq 5% (.35 dB)	Distortion: \leq 4% @ 1 kHz Flatness: \leq 5% (.35 dB)
Square Wave	Symmetry: 0.5 Hz to 100 KHz \leq 2% Risettime: \leq 20 nS 4010A square wave Risettime \leq 120 nS	
Triangle Wave	Linearity: \geq 98% to 100 KHz, \geq 95% to 2 MHz	
TTL Output		
Level	0.8V to 2.4V	
Rise time	\leq 20 nS (4011A), \leq 50 nS (4010A)	
Duty Cycle	50% typical	
CMOS Output		
Max. Frequency	2 MHz	
Level	4V to 14V \pm 0.5 p-p cont. variable	
Rise Time	\leq 120 nS	
Input		
Input Voltage	0-10V \pm 1V causes a 100:1 frequency change	
Impedance	10K Ω \pm 5%	
Frequency Counter		
Accuracy	Time Base Accy \pm 1 count	NA
Time Base Accuracy	\pm 10 PPM (23 $^{\circ}$ C \pm 5 $^{\circ}$ C)	NA
Display	4 digit LED	
Power Source	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)	

Accessories

Two Year Warranty

SUPPLIED: Output cable with BNC to alligator clips, Instruction Manual
 Carrying Case (not included): LC-40