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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

4 MHz Sweep Function Generators Models 4001A & 4003A



4001A



4003A



Models 4001A and 4003A are 4 MHz sweep function generators. The sweep function offers linear or log sweep with variable sweep rates and widths. The model 4003A has the addition of a 20 MHz 5-digit external frequency counter.

Features

- Generates Sine, Triangle, & Square waveforms from 0.5 Hz to 4 MHz
- 20 Vpp output into open circuit (10 Vpp into 50 Ω)
- TTL output <25 ns
- ±10 V DC offset
- Variable amplitude output plus 20 dB attenuator
- Kensington security slot
- cUL approved

4003A Additional Features

- CMOS variable level output
- 5-digit LED display
- Voltage Controlled Frequency (VCF) input



Kensington security slot helps secure your function generator and prevents theft.



Model	4001A	4003A
Main Output		
Frequency Range	0.5 Hz to 4 MHz in 6 Ranges	
Waveforms	6 Waveforms (Sine, Square, Triangle, Ramp, +Pulse, -Pulse)	
Amplitude	0.2 Vpp - 20 Vpp (no load), 0.1 Vpp - 10 Vpp (50 Ω load)	
Attenuator	-20 db (±2%)	
Output Impedance	50 Ω (±2%)	
DC Offset	±10 V (pull ADJ.)	
Distortion	<2%, 1 Hz to 100 kHz	
Rise/Fall Time	<90 ns	
VCF Input	0 to 10 V control	
SYNC Output		
Rise Time	<60 ns (TTL), <90 ns (CMOS)	
Level	approx. 3 Vpp (TTL), variable 4 Vpp - 15 Vpp [±1 Vpp] (CMOS)	
Waveforms	Square, Pulse	
Sweep		
Mode	Linear/Log Sweep	
Rate	5s to 10 ms Continuously Variable	
Sweep Output	10 Vpp (open)	
Output Impedance	1 kΩ ±2%	
Frequency Counter		
Display	-	5-digit LED display with Autorange
Resolution	-	0.01 Hz
MODE	-	INT Function Generator/EXT Counter
Accuracy	-	< 0.02% ± 1 digit, for ≥ 1 kHz
Frequency Range	-	0.2 Hz~20 MHz
Sensitivity	-	<100 mVrms (1 MHz), <200 mVrms (>1 MHz)
Max Input	-	<150 Vrms
Input Impedance	-	1 MΩ ±2%
AC Input	AC 115V/230 V +10%, 50/60 Hz	
Dimension	11" x 3.6" x 11.9" (279.4 x 91.4 x 302.3 mm)	
Net Weight	5.5 lbs. (2.5 kg)	
One-Year Warranty		
Supplied Accessories	Power cord and user manual	