

### Data Sheet

Models 4001A and 4003A are 4MHz 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 60MHz five digit external frequency counter.

#### Common Features

- Generates Sine, Triangle & Square waveforms from 0.5Hz to 4MHz
- 20Vpp output into open circuit (10Vpp into 50 Ohms)
- TTL Output <25nS
- 100% DC offset
- Variable amplitude output plus 20dB attenuator

#### 4003A Additional Features

- CMOS adjustable level output
- 5 digit LED display
- Voltage Control Generator (VCG) input

#### MAIN OUTPUT

Frequency Range	.0.5Hz to 4MHz in 6 Ranges
Waveforms	.6 Waveforms (Sine, Square, Triangle, Ramp, +Pulse, -Pulse)
Amplitude	.20Vp-p in to a Open (10Vp-p in to 50Ω)
Attenuator	.0dB, -20db (+2%)
Output Impedance	.50Ω (+2%)
DC Offset	.+10V (pull ADJ.)
Frequency Adjust	.Counter Accuracy
Distortion	.<1%, 1Hz to 100KHz
Rise/Fall Time	.<60nS
V.C.F. Input	.0 to +10V control

#### SYNC OUTPUT

Rise Time	.<40nS
Level	.>3Vp-p (open)
Waveforms	.Square, Pulse
SWEEP	
Mode	.Linear/Log Sweep
Width	.>100:1 Continuously Variable
Rate	.From 10mS to 5S Continuously Variable
Sweep Output	.10Vp-p (open)
Output Impedance	.1KΩ +2%



**Model 4001A**



**Model 4003A**

COUNTER	Model 4001A	Model 4003A
Display	-	6 digit 0.36 Red LED display with Autorange
Gate Time	-	Auto Select (0.25S~10S)
Resolution	-	0.001Hz
MODE	-	INT Function Generator/EXT Counter
Attenuator	-	0dB, -26dB (+2%)
Accuracy	-	< 0.02% ± 1digit
Time Base	-	20MHz (+ 10PPM)
Frequency Range	-	0.2Hz~60MHz
Sensitivity	-	25mVrms at 1MHz
Max Input	-	250Vrms
Input Impedance	-	1MΩ +2%
Power Source	AC 115V/230V +10%, 50/60Hz, 25watt	
Dimension	10.83" x 3.6" x 11.8" (275 x 90 x 300mm)	
Net Weight	4.9lbs. (2.2kg)	5.5lbs. (2.5kg)

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Specifications subject to change without notice