Function Generators

Specifi		models
	4040A	4017A
Frequency		
Characteristics	C' C T' L D.	D
Waveforms	Sine, Square, Triangle, ± Pulse,	
Range	0.2 Hz to 20 MHz	0.1 Hz to 10 MHz
Resolution	in 8 ranges	in 8 ranges
Tuning Range	5 digits 10:1	5 digits 10:1
Fine	±5% of coarse setting	±5% of coarse setting
Variable Duty Cycle	15:85:15 cont variable	15:85:15 cont variable
Operating Modes	Normal, sweep, VCG,	Normal, sweep, VCG
Operating Modes	AM,FM,burst	Normal, sweep, vee
Output Characteristics	7 tivi, i vi, bui st	l
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: ±10	OV open-circuit +5 into 50Ω
SINE Wave	Treset = err t typ tanasier = re	or opon should be mite com
Distortion	< 3% typical at 1 kHz	
Flatness	±5%±(.45 dB) 0.1 Hz to 8 MHz	
1 lutiloss	±20%±(2.0 dB) 8 MHz to 20 MHz (10MHz 4017A) @3Vp-	
Square wave	= E = N = (E C C N E C E C	(10111112 101771) COTP
Symmetry	0.2 Hz to 100 kHz < 2%	0.1 Hz to 100 kHz < 2%
Rise time	≤ 30 ns	01111210 100 11112 1270
Triangle Wave	Linearity: ≥ 98% to 100 kHz	
TTL Output		
Level	0.8V to 2.4V	
Rise time	≤ 20 nS	
Duty Cycle	50% typical	
CMOS Output	91	
Max. Frequency	2 MHz	
Level	4V to 14V ±0.5 p-p cont. variable	
Rise Time	≤ 120 nS	•
VCG (Voltage		
controlled generator)		
Input Voltage	0-10V ± 1V causes a 100:1 freq	uency change
Impedance	10kΩ ±5%	, ,
Sweep Operation		
Mode	LIN/LOG	
Width	100:1 continuously variable	
Rate	20 ms to 2 s cont variable	0.5 s to 30 s cont variable
Sweep Output	0 to 2V	0 to 10V
Start/Stop Frequencies	Adjustable	NA
Frequency Counter		1
Accuracy	Time base accuracy ±1 count	
Time Base Accuracy	±10 ppm (23° ±5°C)	
Display	5 digit LED	
Mode	INT or EXT	NA
External Input		•
Frequency	5 Hz to 30 MHz	Does not apply
Resolution	0.1, 1, 10, 100, 1 kHz	
Sensitivity	25Vrms	
Power Source	120/230 VAC ±10%	
	50/60 Hz, internal jumper selectable	
Dimensions	5.5 x 11.75 x 10.575"	4.5x 11.75 x 10.575"
	(140 x 298 x 264mm)	(114 x 298 x 264mm)
	4.5 lbs. (2 kg)	(

Accessories

Two Year Warranty

SUPPLIED: Output Cable with BNC to Alligator Clips, Instruction Manual Carrying Case (not included): LC-40



Model 4040A

20 MHz Sweep/Function
Generator with Frequency Counter

- 0.2 Hz to 20 MHz
- AM & FM modulation
- **■** Burst operation
- External frequency counter to 30 MHz
- 5 digit LED display
- All features of Model 4017A

Model 4017A

10 MHz Sweep/Function Generator with Digital Display

- 0.1 Hz to 10 MHz
- Linear and log sweep
- 5 digit LED display
- All features of Model 4011A

	4040A	
AM MODULATIO	N CHARACTERISTICS	
Source	Internal, External	
Modulation Ratio	0 to 100%	
Int modulation	1 kHz	
Ext Modulation	DC to 500 kHz	
Ext Sensitivity	Less than 10V p-p for 100% modulation	
FM MODULATION	CHARACTERISTICS	
Source	Internal, External	
Modulation Ratio	0 to 100%	
Deviation	0 to 5%	
INT Modulation	1 kHz	
Ext Modulation	DC to 500 kHz	
Ext Sensitivity	Less than 10V p-p for 100% modulation	
BURST CHARACT	ERISTIC	
Source	Internal, External	
Burst Width	Cont. variable from 5% to 90% of internal gating frequency	
Repition Rate	0.5 Hz to 50 Hz, internal	
	DC to 500 kHz external	
External Level	TTL levels	
Burst Frequency	Determined by main generator frequency setting	