

Series LO1

HCMOS/TTL Crystal Oscillator



FEATURE

- All metal welded package
- Broad frequency range from 0.25MHz to 180MHz
- Built-in C-MOS IC with tri-state function
- 5V and 3.3V supply model available



ELECTRICAL SPECIFICATIONS

Model type		Full Size		Half Size	
Fan Out Type		TTL/CMOS	CMOS	TTL/CMOS	CMOS
Supply Voltage		5.0V	3.3V	5.0V	3.3V
Frequency Range		0.25-180MHz	0.25-180MHz	0.25-180MHz	0.25-180MHz
Operating Temperature		0-70°C, -20-70°C, -40-85°C			
Frequency Range Input Current (Max)	0.25MHz ~9.999MHz	15mA	10mA	15mA	10mA
	10.000MHz~23.999MHz	15mA	10mA	15mA	10mA
	24.000MHz ~49.999MHz	30ma	20mA	30ma	20mA
	50.000MHz ~79.999MHz	40mA	20mA	40mA	20mA
	80.000MHz ~180.000MHz	50mA	30mA	50mA	30mA
Frequency Stability	All Conditions	±25, ±50, ±100ppm			
Symmetry	AT 1/2 Vdd	45/55%			
Input Voltage	Vol(max)	0.4V/0.5V	0.33V	0.4V/0.5V	0.33V
	2.4V/4.5V	3.0V	2.4V/2.5V	3.0V	2.97V
Rise/Fall Time	AT 0.1Vdd~0.9Vdd	5ns max			
Driving Ability	CMOS load max	15pF/50pF	15pF	15pF/50pF	15pF
	TTL load max	10TTL		10TTL	
Start-up Time	Load RANGE	5 ms max(15pF)/ 10 ms (50pF)			
E/D Function	#1 OPEN	PIN #8 OPEN	#5 OPEN		
	#1 >=2.2V	PIN #8 OPEN	#5 OPEN		
	#1 <=0.8V	PIN #8 HIGHZ	#5 HIGHZ		
PAD Connection		PIN#1 E/D	PIN#8 OUT	PIN#1 E/D	PIN#5 OUT
		PIN#7 GND	PIN#14 Vdd	PIN#4 GND	PIN#8 Vdd

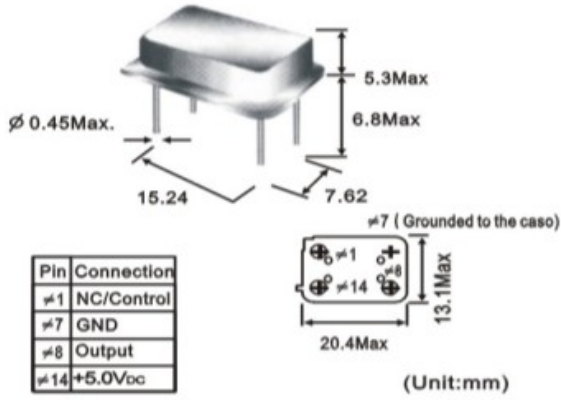
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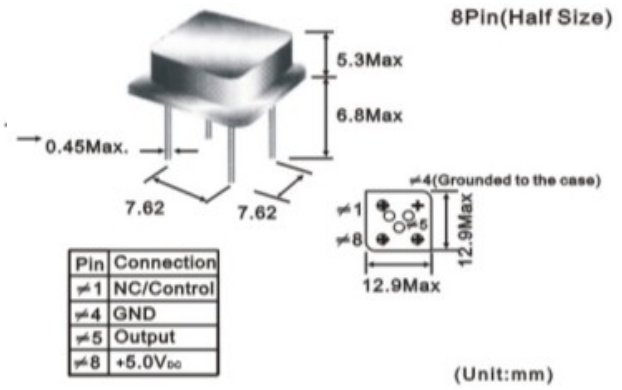
MARKING AND DIMENSION



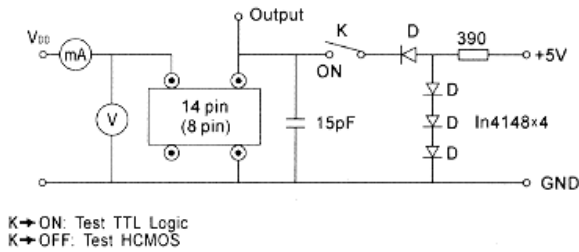
Full SIZE



HALF SIZE



CIRCUIT PRINTCIPLE



OUTPUT WAVE FORM

