

Crystal Oscillator

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		OSCF(Full Size)		OSCH(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	0.3V	0.4V/0.5V	0.3V
	Vol(min)	2.4V/2.5V	3.0V	2.4V/2.5V	3.0V
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

Great Marking (HK) Industry Co., Limited.

Add: Unit 27EF, the Sky Castle, North of Jingtian, Futian District, Shenzhen 518034 CHINA

Tel: +86-755-83056036 83056901 83056902 Fax: +86-755-83056903

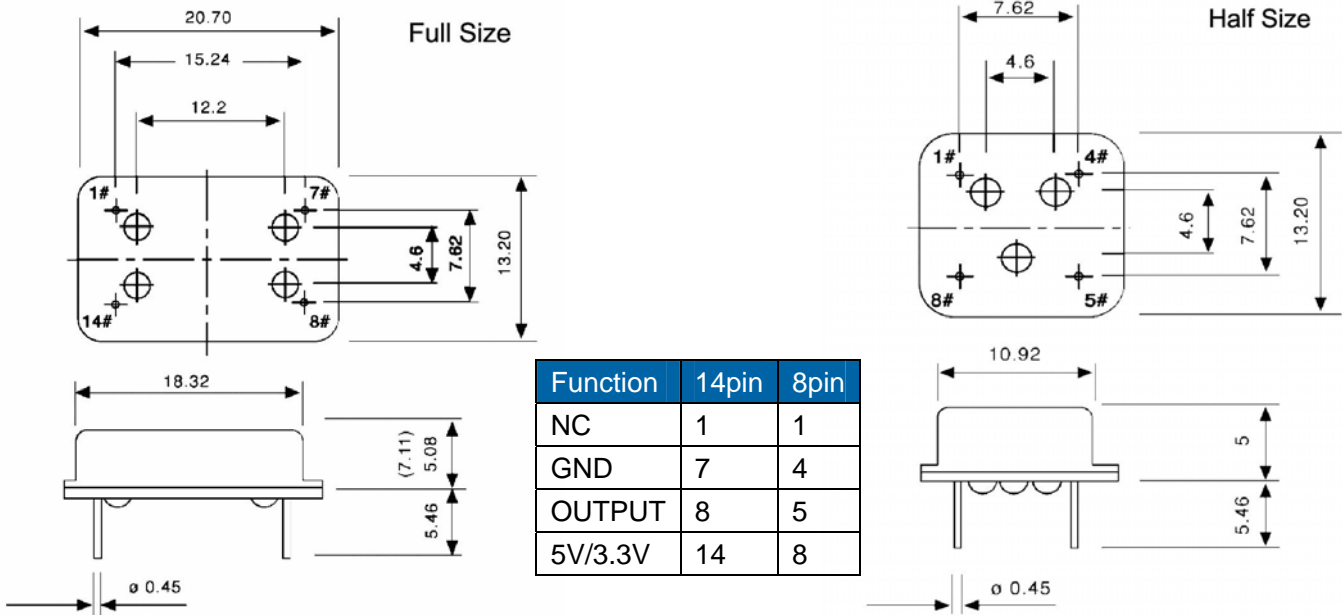
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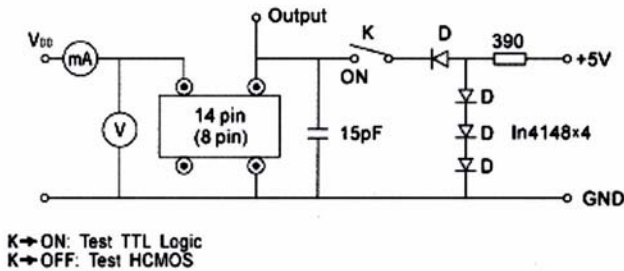
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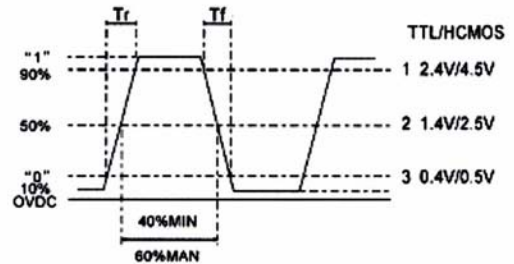
DIMENSIONS



CIRCUIT PRINTCIPLE



OUTPUT WAVE FORM



PART NUMBERING

GMK-	OSCF OSCH	80.000 Frequency 80.000 MHz	50 Frequency tolerance 50:±50ppm 25:±25ppm	3.3 Supply voltage 5:5V 3.3:3.3V	X Fan out type X:TTL/CMOS Y:CMOS Z:TTL	B Temperature range A:0-70°C B:-20-70°C C:-40-85°C
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E-mail: sales@greatmarking.com Uri: www.greatmarking.com