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# Crystal Oscillator

## Series HCO-6R, Voltage Controlled Crystal Oscillator ( VCXO )

### FEATURE

- Small size as small as 20.26x12.65mm and 12.6x12.65mm
- Hybrid IC Circuit Construction
- CMOS compatible output
- All metal, hermetically sealed welded package



### ELECTRICAL SPECIFICATIONS

Model type		6RF (Full Size) 6RH (Half Size)	
Frequency Range		1MHz ~ 80MHz	
Frequency Stability		±25, ±50, ±100ppm	
Operating Temperature		0-70°C, -20-70°C, -40-85°C	
Fan Out Type		HCMOS Square wave	
Load		15pF	15pF
	Voltage Voh	4.5V Minimum	3.0V Minimum
	Voltage Vol	0.4V Maximum	0.3V Maximum
	Current Ioh	-8.0mA	4.0mA
	Current Iol	8.0mA	4.0mA
	Duty Cycle	40/60 Maximum	40/60 Maximum
	Rise/Fall Time	5ns	5ns
Frequency Control		Positive Transfer Characteristic	
	Pullability	±50ppm, ±100ppm, ±150ppm, ±200ppm Minimum	
	Control Voltage	0.5Vdc to 4.5Vdc	0.3Vdc to 3.0Vdc
	Center Frequency	2.5Vdc	1.65Vdc
	Monotonic Linearity	<±15%	<±15%
	Input impedance	50Kohms Normal	50Kohms Normal
Supply Voltage		+5Vdc +/-5% or 3.3V +/-5%	+3.3V
Supply Current		60mA Max	40mA Max
Package		All metal, hermetically sealed welt package	

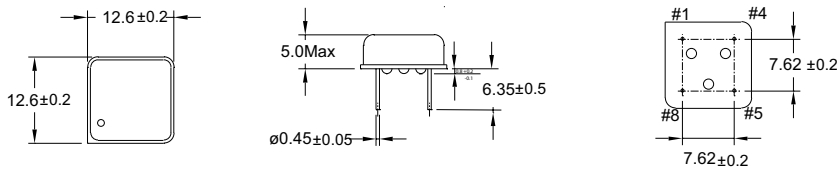


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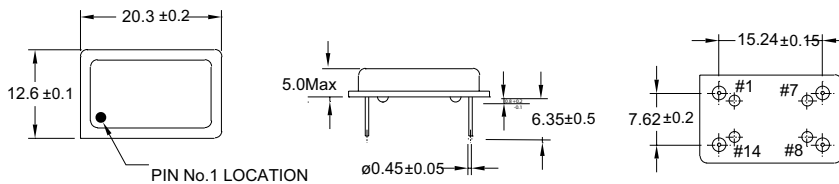
### MARKING AND DIMENSIONS



#### HALF SIZE

PIN CONNECTION	
PIN 1:	Control Voltage
PIN 4:	GROUND
PIN 5:	OUTPUT
PIN 8:	V <sub>DD</sub> SUPPLY VOLTAGE

Units: mm



#### FULL SIZE

PIN CONNECTION	
PIN 1:	Control Voltage
PIN 7:	GROUND
PIN 8:	OUTPUT
PIN 14:	V <sub>DD</sub> SUPPLY VOLTAGE

### PART NUMBER

