

## CRYSTAL CONTROLLED OSCILLATORS

AURORA, IL 60505 PHONE (630) 851-4722 FAX (630) 851-5040 www.conwin.com

## HCMOS SM CLOCK WITH TRI-STATE

## SURFACE MOUNT 6-PIN

SPECIFICATIONS			MSD61A1	MSD62A1	MSD63A1	MSD64A1		
Frequency Range			2MHz to 70MHz					
Frequency Stability			±25ppm ±50ppm ±100ppm ±20pp			±20ppm		
			(Inclusive of calibration tolerance at 25°C and operating temperature range, input voltage change, aging, shock and vibration)					
Temperature Range			-40°C to 85°C					
	Waveform	n	HCMOS Squarewave					
	Load		15pF Maximum					
Output	Voltage	Voh	Vcc5V Minimum					
Output		Vol	0.40V Maximum					
	Current	loh	-8mA					
		lol	8mA					
	Duty Cycle Rise/Fall Time		45/55 Maximum Measured at 50% of Vdd					
			3nS Typical					
	Jitter		5pS RMS Maximum					
	Tri-State		Pin 1					
	Output Enable/ Disable Time		100nS					
Input	Enable Vih		2.0V Minimum					
	Disable		0.5V Maximum					
			Oscillator output is enabled with no connection on pin 1					
Start Up Time		10mS Maximum						
Supply Voltage (Vdd)		3.3Vdc ±0.3Vdc						
Supply Current			15mA Typical , 30mA Maximum					
Package			Hermetically sealed, leadless ceramic package					

#### **EXAMPLE MODEL NUMBER:**

M S D 6 1 A 1 / 4 4 . 7 3 6 M H z

SURFACE MOUNT -HCMOS SERIES

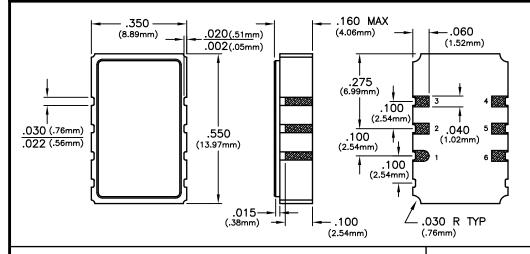
- CENTER FREQUENCY

	ULLETIN #: HC181	<sub>REV</sub> . 00	Specifications	subject to	change	without notice.	C−W © 2000
1 -	0LLETIN #	NEV				Dimensional	Tolerance: ±.02"
	PAGE OF	DATE: 8/31/00	ISSUED BY: _				±.005"



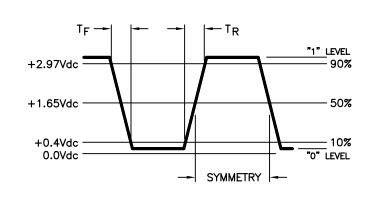
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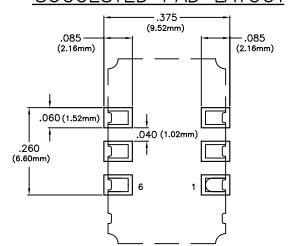


PIN	CONNECTION
1	E/D TRI-STATE
2	N/C
3	GROUND
4	OUTPUT
5	N/C
6	Vcc

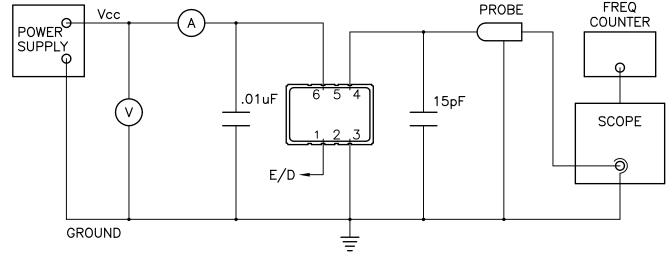
#### **OUTPUT WAVEFORM**



### SUGGESTED PAD LAYOUT



### TEST CIRCUIT



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