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Precise Clock Oscillators, Dual In Line Packages

MODEL	C8	C22	C50	C51	C52
FREQ' RANGE	1.00 to 200.00 MHz	400.00 to 800.00 MHz	1.00 to 200.00 MHz		
FREQ' STABILITY	Standard: $\pm 15$ PPM Typ. See "How - To - Order" instructions				
FREQ' CALIBRATION AT +25°C	Typical: $\pm 15$ PPM Best: $\pm 5$ PPM				
FREQ' STABILITY VS. SUPPLY VARIATIONS	Typical: $\pm 5$ PPM Best: $\pm 1$ PPM				
FREQ' STABILITY VS. LOAD VARIATIONS	Typical: $\pm 3$ PPM Best: $\pm 1$ PPM				
AGING	Typical: $\pm 5$ PPM/ year Best: $\pm 1$ PPM/ year				
OPERATING TEMP' RANGE	See "How - To - Order" instructions				
OUTPUT WAVEFORM	HCMOS/ TTL Compatible High Level (Voh): 0.9 Vcc Min. Low Level (Vol): 0.1 Vcc Max. Symmetry: (50 $\pm$ 10%) or (50 $\pm$ 5%) Rise/ fall Time: 5nSec Max. ECL, PECL, and Sine Wave outputs are available too				
START UP TIME	10 mSec Max. at Min. Supply Voltage				
LOAD	50 pF				
SUPPLY VOLTAGE	+5.0V		+3.3V	+5.0V	+3.3V
SUPPLY CURRENT	15 mA Max. for F < 25.00 MHz 25 mA Max. for frequencies between 25.00 MHz to 40.00 MHz 45 mA Max. for F > 40.00 MHz				
ENABLE / DISABLE	N/A		Enable: High (above 2.2V) or open Disable: Low (below 0.8V)		
PACKAGE	DIL 14				

## Environmental Conditions

### SHOCK

IEC 68-2-27 (Test Ea) 30G, 18 mSec, Half Sine

### VIBRATION

IEC 68-2-6 (Test Fc), 0.35mm, 5G, 10-2000Hz, 6 cycles/ axis

### THERMAL SHOCK

IEC 68-2-14 (Test Na), 30 min. in each extreme temperature

### SEAL

IEC 68-2-17 (Test Qc method 2)

### SALT MIST

IEC 68-2-11 (Test Ka), 96 hours

### SOLDERING HEAT

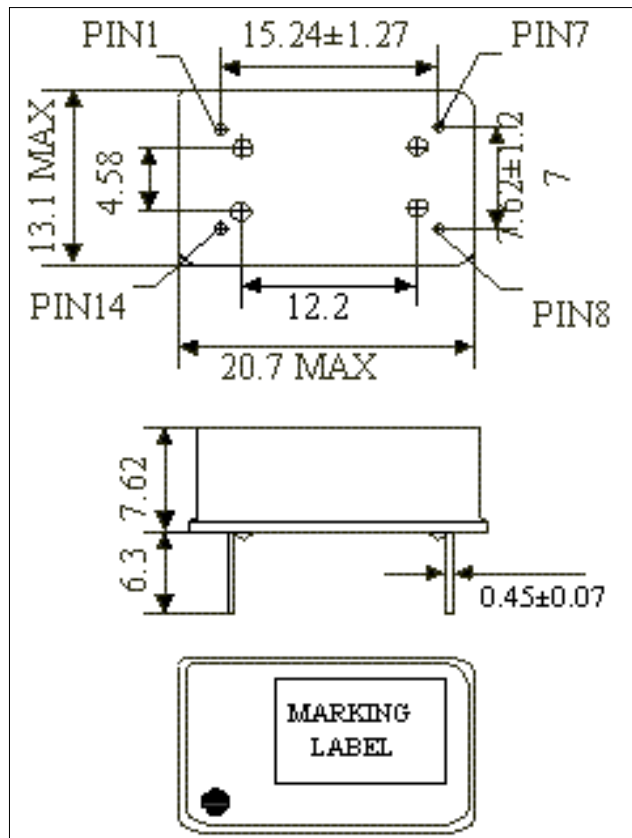
IEC 68-2-20A (230°C± 5°C 10 ±1)

## C8, C50, C51, C52

C8, C52	
Pin	Function
1	N/C or Output ~
7	GND
8	Output
14	Vcc

C50, C51	
Pin	Function
1	E/D
7	GND
8	Output
14	Vcc

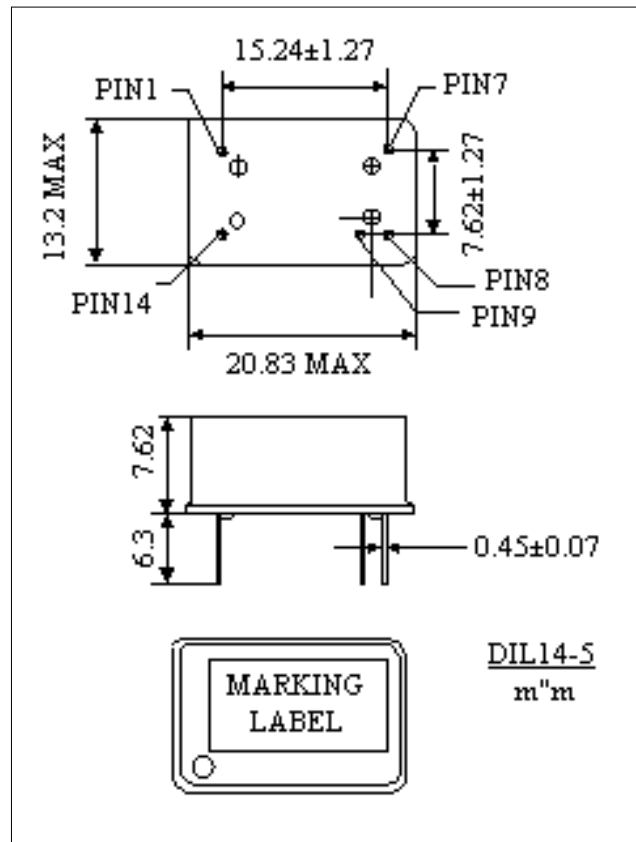
Dimensions in mm.



## C22

C22	
Pin	Function
1	N/C or Output ~
7	GND
8	Output
9	Output ~
14	Vcc

Dimensions in mm.



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[to top](#)