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Precise Clock Oscillators, Dual In Line Packages

MODEL	C17	C37	C18	C38	C111	C113	C110	C112
FREQ' RANGE	2.00 to 200.00 MHz				2.00 to 800.00 MHz			
FREQ' STABILITY	Standard Options: ± 15 PPM Typ. See "How - To - Order" instructions							
FREQ' CALIBRATION AT +25°C	Typical: ± 15 PPM Best: ± 5 PPM							
FREQ' STABILITY VS. SUPPLY VARIATIONS	Typical: ± 5 PPM Best: ± 1 PPM							
FREQ' STABILITY VS. LOAD VARIATIONS	Typical: ± 3 PPM Best: ± 1 PPM							
AGING	Typical: ± 5 PPM/ year Best: ± 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: 5 nSec Typ. ECL, PECL are available too See "How - To - Order" instructions							
START UP TIME	10 mSec Max. at Min. Supply Voltage							
LOAD	50 pF Max.							
SUPPLY VOLTAGE	+5.0V	+3.3V	+5.0V	+3.3V	+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 higher frequencies at HCMOS/TTL Compatible 60 mA Max. for higher Frequencies and ECL / PECL							
ENABLE / DISABLE	N/A	Enable: High (above 2.2V) or open Disable: Low (below 0.8V)			N/A	Enable: High (above 2.2V) or open Disable: Low (below 0.8V)		
PACKAGE	14.4 X 9.5 X 5.5 mm. Max 500 pc's min. Tape & Reel							

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
(Fig.2, Table V)

THERMAL SHOCK

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

SOLDERING HEAT

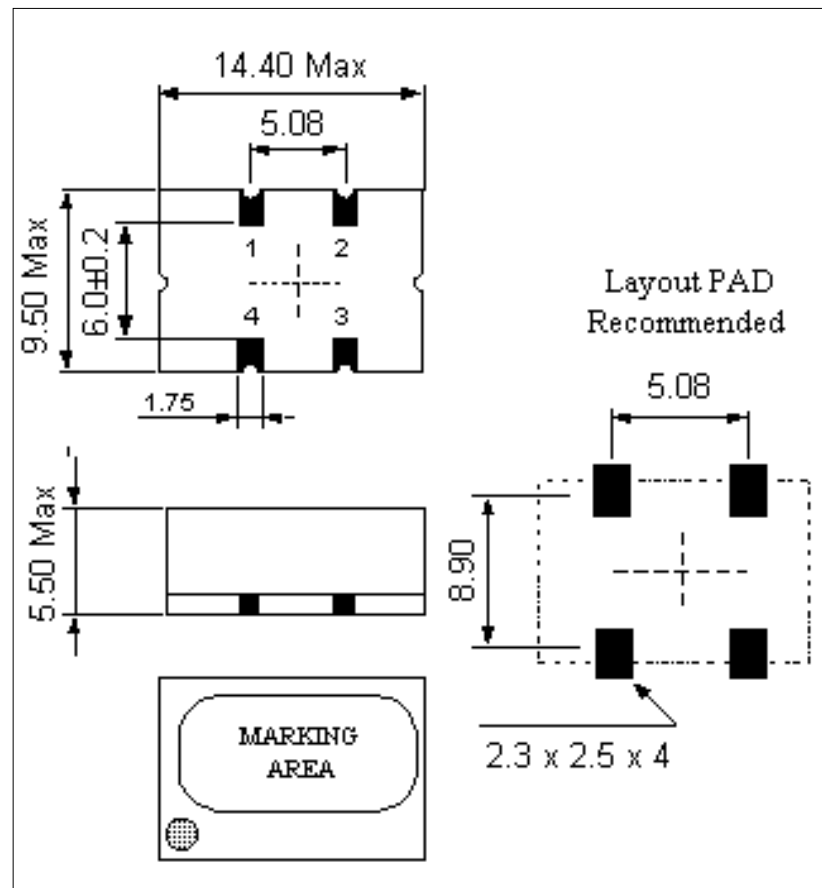
235°C ±5°C for 10 Sec. Max. Solder melting point: 217°C

C17, C18, C37, C38

C17, C37	
Pin	Function
1	N/C or compatible output
2	GND
3	Output
4	Vcc

C18, C38	
Pin	Function
1	E/D
2	GND
3	Output
4	Vcc

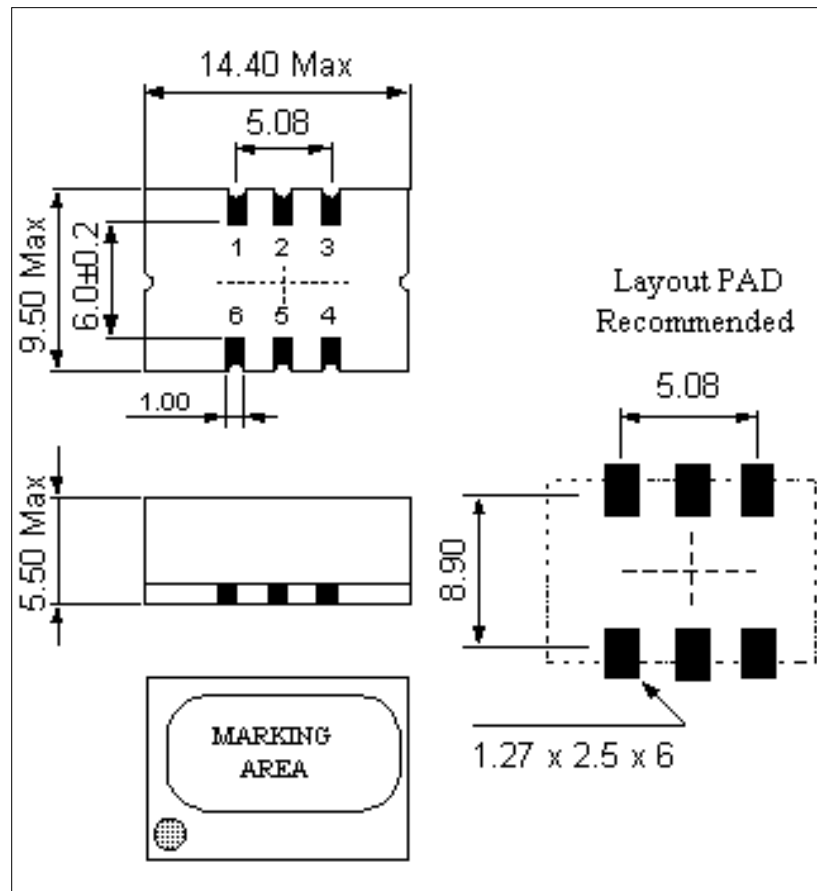
Dimensions in mm.



C110, C111, C112, C113

C110, C112	
Pin	Function
1	N/C
2	E/D
3	GND
4	Output
5	N/C or compatible output
6	Vcc

C111, C113	
Pin	Function
1	N/C
2	N/C
3	GND
4	Output
5	N/C or compatible output
6	Vcc



Dimensions in mm.