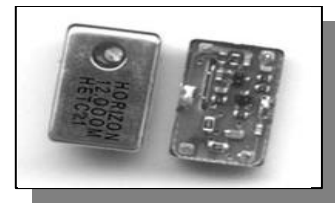




OSCILLATORS UNIT
5.0V_{DC} TEMPERATURE COMPENSATED OSCILLATORS
HETC21 - 14 PIN DIP

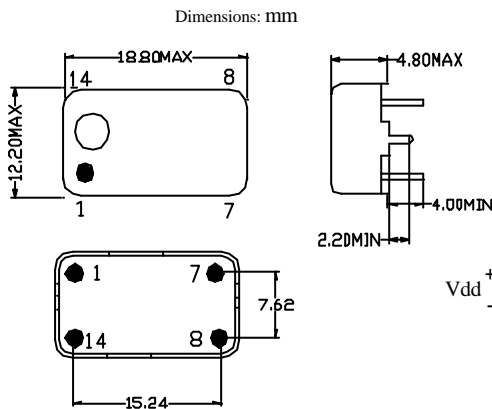


FEATURES

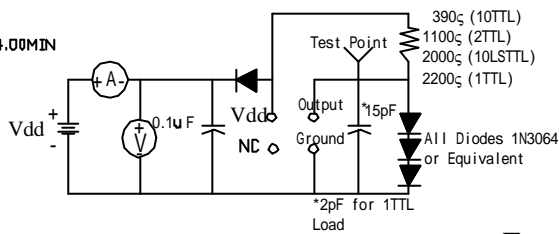
- Industry Standard Package
- Stable Over Wide Temp. Range
- Custom Specification Available
- HCMOS / TTL Compatible

Pin	Function
1	NC
7	Case Ground
8	Output
14	Supply Voltage(V _{dd})

PARAMETER	HCMOS / TTL SPEC.
Frequency Range	1.000 ~ 35.000MHz
Frequency Adjustment Range	± 3ppm min
Operating Temperature	0 ~70 (See Option Table)
Storage Temperature	-40 ~ +85
Frequency Stability Vs Temp	See Table
Frequency Stability Vs Input V.	± 0.5 ppm max
Frequency Stability Vs Load	± 0.3 ppm max
Frequency Stability Vs Aging	± 1ppm per year max
Supply Voltage (V _{bc})	+5.0 V _{bc} (± 0.5) +3.0 V _{bc} (± 0.5)
Supply Current (I _{cc})	20mA max
Symmetry (Duty Cycle)	40%~60% Std.
Output "0" Level (V _{OL})	0.4 V _{bc} max. (TTL) 0.5 V _{bc} max. (HCMOS)
Output "1" Level (V _{OH})	2.4 V _{bc} min (TTL) 4.5 V _{bc} min. (HCMOS)
Rise And Fall Time	10ns max .
Control Voltage (V _c)	N/A
Output Load	10TTL / 15 pF HCMOS
Manual Adjustment	± 3.0 ppm min by internal trimmer



COMPATIBLE 14 PIN DIP



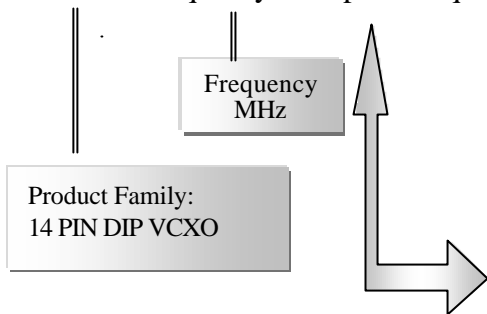
TTL Test Circuit

Frequency Stability vs.
Temperature Availability Table
Indicate Availability

PART NUMBERING-ORDERING OPTION:

HETC21- Frequency- Temp. & Freq. Stability - Option

H1 for Custom Mark
H2 for BLANK-None Req'd.



Part Numbering Example :
HETC21-20.000MHZ-T1-H1-A-A

		Frequency stability (± ppm)							
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Temp. Range	HE code	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
0~50	T1								
-10~60	T2								
0~70	T3								
-20~70	T4								
-30~60	T5								
-40~85	T6								