

## ► Features

Lower Cost, Faster Delivery

HCMOS Output

5V, 3.3V Operation

Tri-state

AT-Cut Crystal

Fund, 3<sup>rd</sup> Oscillation Mode.

0to70 °C, -40to85 °C OPT Range.

Low RMS Phase Jitter

RoHS Compliant (pb-Free)



Dimensions(mm)

20.8 x 13.2 x 5.1max

## Absolute Maximum Ratings *(For user guidelines only)*

| Parameter             | Maximum Value | Units | Condition |
|-----------------------|---------------|-------|-----------|
| Supply voltage(Vdd)   | 6             | Vdc   |           |
| Operating Temperature | -40 to 85     | °C    |           |
| Storage Temperature   | -50 to 120    | °C    | Max       |
| ESD Sensitivity       | 1             | kV    | HBM       |

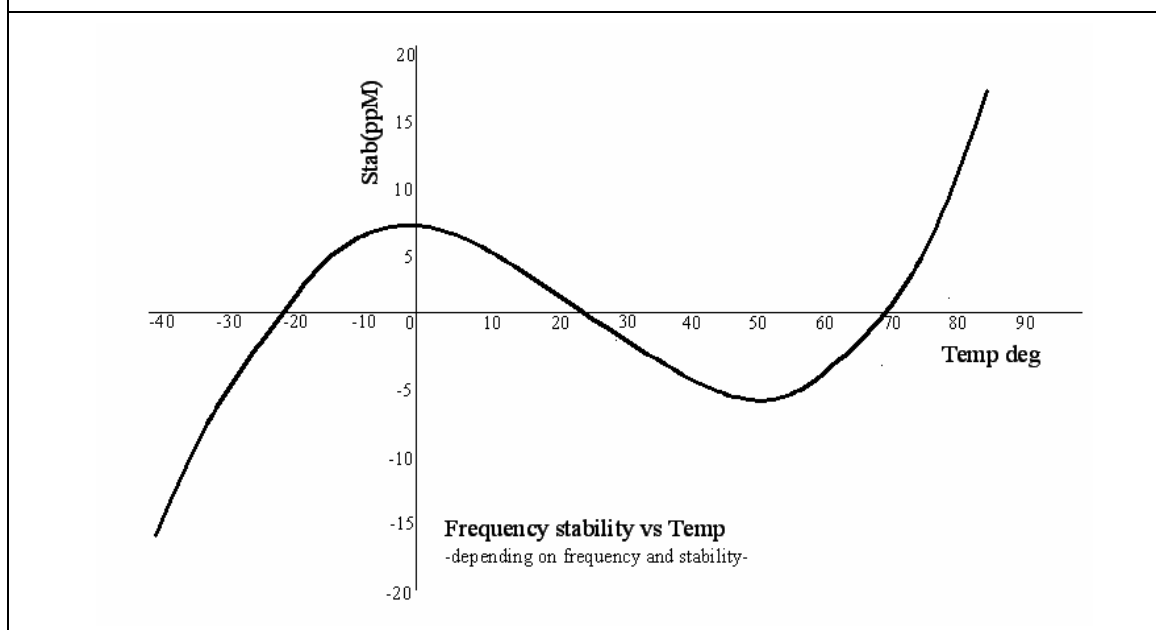
## Supply Voltage & Consumption.

| Parameter           | Value    | Units  | Condition |
|---------------------|----------|--------|-----------|
| Supply Voltage(Vdd) | 3.3V ±5% | DC     |           |
| Current Consumption | 30       | mA Max | @ 15pF    |
| Supply Voltage(Vdd) | 5.0V ±5% | DC     |           |
| Current Consumption | 50       | mA Max | @ 15pF    |
| Start up Time(Ts)   | 10       | mS     | Max       |

## Frequency Stabilities<sup>1</sup>

| Parameter       | Typical Value | Units   | Condition  |
|-----------------|---------------|---------|------------|
| Vs. Temperature | ±15           | ppM max | 0to70 °C   |
|                 | ±25           | ppM max | -40to85 °C |

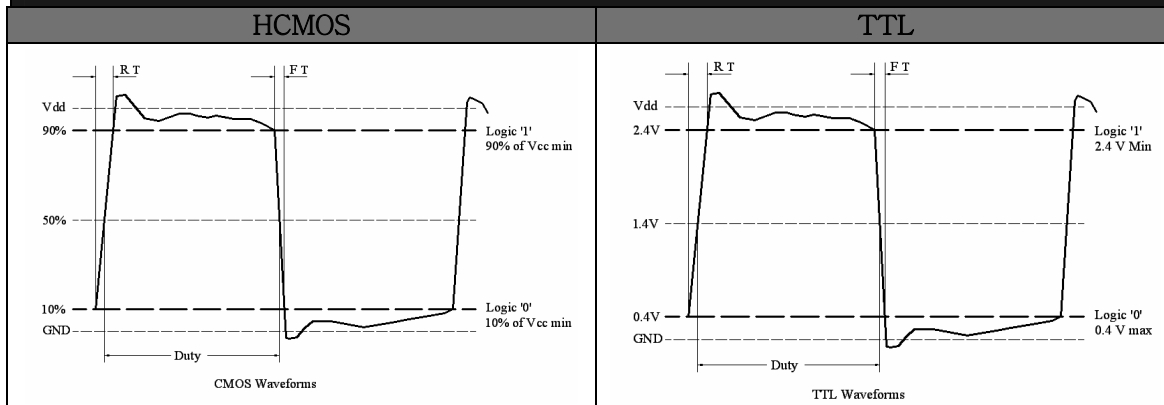
|                            |     |         |            |
|----------------------------|-----|---------|------------|
| Vs. Calibration @25°C      | ±15 | ppm max | ±2°C       |
| Vs. Vdd                    | ±1  | ppm max | ±5% of Vdd |
| Vs. Load                   | ±1  | ppM max | ±5% change |
| Aging 1 <sup>st</sup> year | ±2  | ppM max |            |
| Overall Stability          | ±15 | ppM max | 0to50°C    |
| (includes temperature      | ±25 | ppM max | 0to70°C    |
| And initial accuracy)      | ±50 | ppM max | -40to85°C  |



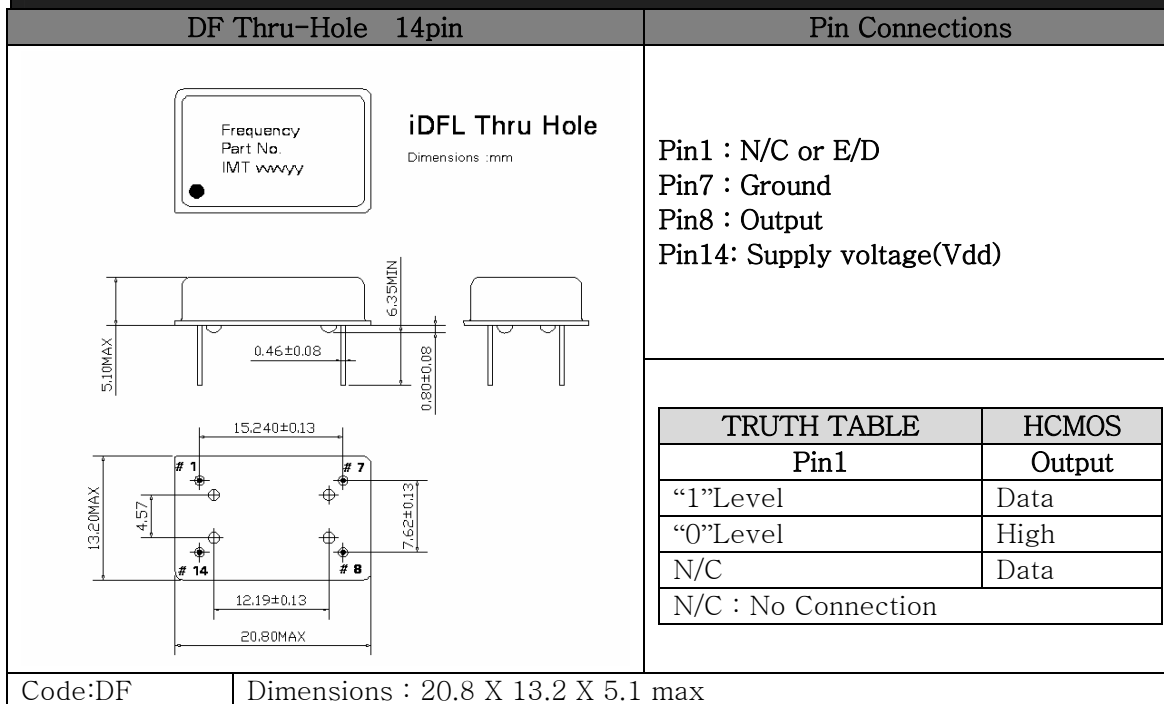
| RF output <sup>1</sup> |                        |               |        |            |
|------------------------|------------------------|---------------|--------|------------|
|                        | Parameter              | Typical Value | Units  | Condition  |
| HCMOS                  | Output Load            | 15            | pF     |            |
|                        | Rise(Tr),Fall(Tf) time | 10            | nS max | 10to 90%   |
|                        | Output Level High      | 10%Vdd        | V min  | VOH        |
|                        | Output Level Low       | 90%Vdd        | V max  | VOL        |
|                        | Symmetry               | 50±10         | %      | 50% of Vdd |

<sup>1</sup> About Test Condition Refer to Wave Form

## Wave Form



## Mechanical Dimensions

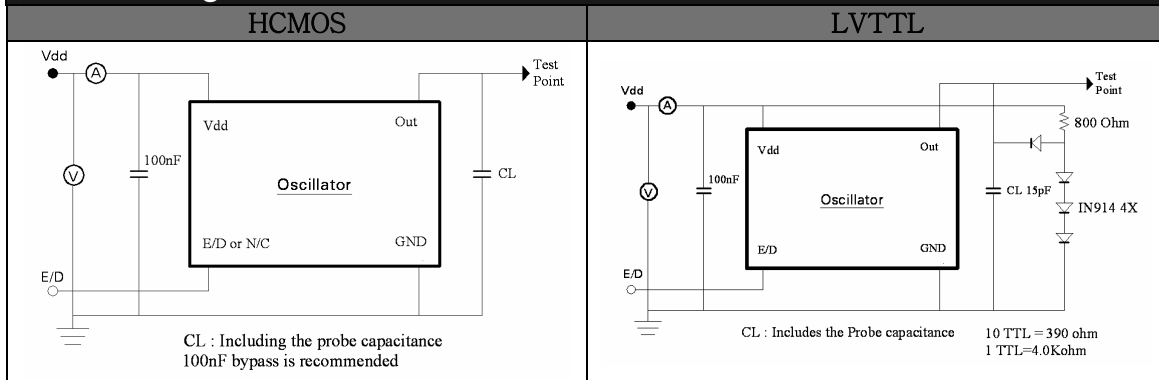


## Marking

30.720Mhz  
iXHDF5-EE0  
● IMT wyyy

-Frequency  
-Part No.  
-week/year

## Load Configuration



Note : Recommend to add 100nF bypass Capacitors at Vdd and Vc

## Part Numbering Guide & Code ...iXHDF5-EE0-30M720-T

iXHDF (HCMOS)

| Logic   | Supply voltage   | Operating Temperature                       | Stability                              | Frequency | Packaging Option          |
|---|------------------|---|--|-----------|---------------------------|
| iXHDF   | 5                | E   | E0                                     | 30M720    | T                         |
| P: LVPECL<br>H: HCMOS<br>L: LVDS  | 5:5.0V<br>3:3.3V | A: 0...50°C<br>B: 0...70°C<br>E: -40...85°C | A5: ±15ppM<br>C0: ±30ppM<br>E0: ±50ppM | 30.720Mhz | T: Tape & Reel<br>B: Bulk |
| Above example, Crystal Oscillator, HCMOS output, Metal 14pin package, 5.0V, -40to 85°C Temperature range, Overall ±50ppM, at 30.720Mhz. |                  |   |  |           |                           |