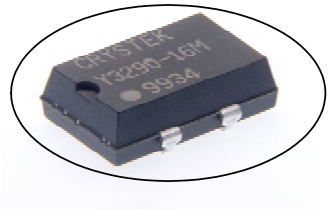
## Y33xx Model
9X14 mm SMD,**3.3V,HCMOS**

Lead Free RoHS Compliant

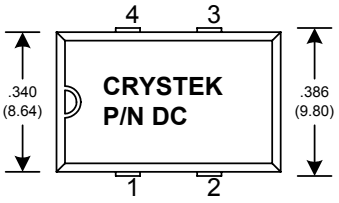
# Clock Oscillator

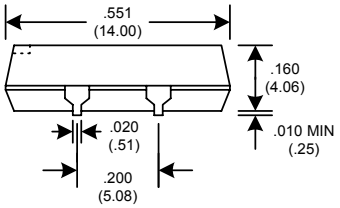


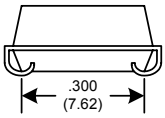

| | |
|---|---|
| **Frequency Range:** | 1.544MHz to 66.667MHz |
| **Frequency Stability:** | ±25ppm,±50ppm,±100ppm |
| **Temperature Range:** | |
| Operating: | 0°C to 70°C |
| (Option M) | -20°C to 70°C |
| (Option E) | -40°C to 85°C |
| **Storage:** | -55°C to 120°C |
| **Input Voltage:** | 3.3V ± 0.3V |
| **Input Current:** | 20mA Max @ 66MHZ |
| **Output:** | HCMOS |
| Symmetry: | 45/55% Max @ 50% Vdd |
| Rise/Fall Time: | 8ns Max @ 20% to 80% Vdd |
| Logic: | "0" = 10% Vdd Max |
| | "1" = 90% Vdd Min |
| Load: | 30pF Max |
| **Jitter RMS:** 12KHz~20MHz | 0.5ps Typ, 1ps Max |
| **Aging:** | <3ppm 1st/yr, 1ppm every year thereafter |

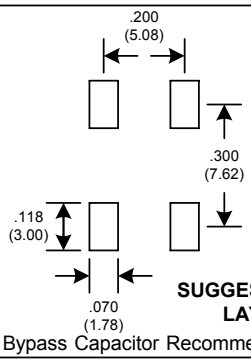
Designed to meet today's requirements for low jitter 3.3V applications. The Y33xx Series is a Non-PLL based oscillator design for excellent jitter performance. Available on tape and reel in quantities of 1K.

Dimensions inches (mm)
All dimensions are Max unless otherwise specified.



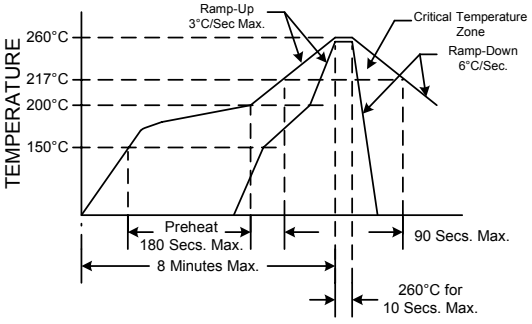




**SUGGESTED PAD LAYOUT**
Bypass Capacitor Recommended

**RECOMMENDED REFLOW SOLDERING PROFILE**




NOTE: Reflow Profile with 240°C peak also acceptable.

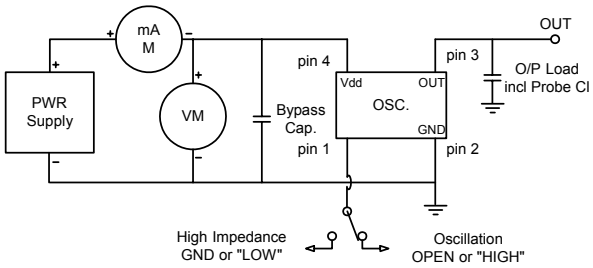
| Tri-State Function | |
|---|---|
| Function pin 1 | Output pin |
| Open | Active |
| "1" level 2.4V Min | Active |
| "0" level 0.4V Max | High Z |

## Crystek Part Number Guide

Example: Y3392-44.736MHZ
Intermediate Temp: YM3392-44.736MHZ
Extended Temp: YE3392-44.736MHZ
Y= 0°C to 70°C
*YM= -20°C to 70°C, *YE= -40°C to 85°C

Symmetry 40/60%

| Part Number | Freq. Stability |
|---|---|
| Y*3390 | +/-100ppm |
| Y*3392 | +/- 50ppm |
| Y*3391 | +/- 25ppm |
| | (+/- 100ppm only) -40°C to 85°C |




Specifications subject to change without notice. TD-050301 Rev.C

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