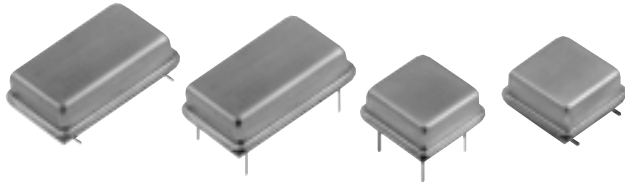




CRYSTAL OSCILLATORS HCMOS/TTL 3.3V



**FULL SIZE D.I.L.
M package**
M1380, M1381,
M1382, M1388,
M1389
M3390, M3391,
M3392, M3398,
M3399

**HALF SIZE D.I.L.
H package**
H1380, H1381,
H1382, H1388,
H1389
H3390, H3391,
H3392, H3398,
H3399

Thru-Hole / Gull Wing

Commercial: 0° to 70°C

FIXED FREQUENCY, 1 KHz to 125 MHz

TRISTATE, 32.768 KHz to 125 MHz

FEATURES

- Frequency from 1 KHz to 125 MHz
- Choice of Thru-hole packages
 - DIL Full Size ("M")
 - Half Size DIL ("H")
 - Gull Wing SMD
- Tristate option available
- Very low power when tristated
- Start up time less than 5 ms
- Stability options from ± 100 ppm to ± 20 ppm
- Guaranteed start-up with ramping DC Supply
- 45/55 symmetry is standard
- Internal bypass capacitor delivers superior waveform characteristics
- Output jitter from positive edge to positive edge is 50 ps RMS max

TYPICAL APPLICATIONS

- Any thru-hole PCB that requires a standard HCMOS/TTL 3.3V clock, including microprocessors and microcontrollers.

Description

Our thru-hole fixed frequency 3.3 volt oscillators embody 25 years of design and manufacturing know-how. They are available in full size and half size package, all hermetically sealed with welded stainless steel cover. These 3.3V oscillators are intended for new designs that take advantage of their low dissipation and reduced temperature rise. They cover 0°C to 70°C operation and provide frequency selection from 1 KHz to 125 MHz and have excellent long-term reliability, plus superior startup, loading and waveshape characteristics.

CONNECTIONS — All models

	FULL SIZE	HALF SIZE	M1380 s H1380 s	M3390 s, H3390 s Tristate
PIN	1	1	NOT USED	Floating or 1 : Oscillator runs Ground or 0 : Disable or Tristate
PIN	7	4	Ground and Case	
PIN	8	5	Output	
PIN	14	8	+3.3V, V _{DD}	

