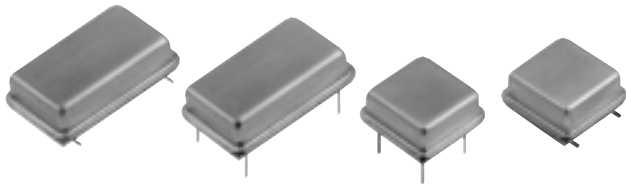




# CRYSTAL OSCILLATORS HCMOS/TTL 5V



## Thru-Hole / Gull Wing

Commercial: 0° to 70°C

FIXED FREQUENCY, 1 KHz to 175 MHz

TRISTATE, 32.768 KHz to 175 MHz

"HARD ZERO", 62.5 KHz to 125 MHz

### FEATURES

- Frequency from 1 KHz to 175 MHz
- Choice of thru-hole packages
  - DIL Full Size ("M")
  - Half Size DIL ("H")
  - Gull Wing SMD
- Tristate and "Hard Zero" options accommodate ATE
- 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 available
- Internal bypass capacitor delivers superior waveform characteristics
- Jitter from positive edge to positive edge is 50 ps RMS max

### TYPICAL APPLICATIONS

- Any thru-hole PCB that requires a standard HCMOS/TTL 5V clock, including microprocessors and microcontrollers.

### FULL SIZE D.I.L.

#### M package

M1280, M1281,  
M1282, M1286,  
M1288, M1289,  
M1290, M1291,  
M1292, M1298,  
M1299  
M1991, M1992,  
M1998, M1999  
M3290, M3291,  
M3292, M3296,  
M3298, M3299  
M3991, M3992,  
M3998, M3999

### HALF SIZE D.I.L.

#### H package

H1280, H1281,  
H1282, H1286,  
H1288, H1289,  
H1290, H1291,  
H1292, H1298,  
H1299  
H1991, H1992,  
H1998, H1999  
H3290, H3291,  
H3292, H3296,  
H3298, H3299  
H3991, H3992,  
H3998, H3999

### Description

MF Electronics thru-hole oscillators embody 25 years of design and manufacturing know-how. They are available in full-size and half size packages, all hermetically sealed with welded stainless steel cover. These 5V thru-hole oscillators are designed for everyday stresses of 0°C to 70°C operation and extended frequency selection of 1 KHz to 175 MHz. Higher (5V) operation ensures superior output loading and faster rise/fall times characteristics.

