



FIXED/TRISTATE OSCILLATORS

Extended Temperature and COTS



Thru-Hole, 5V
20 KHz to 100 MHz

FULL SIZE D.I.L.
M1254, M1256,
M1258
M3254, M3256,
M3258
M4001 thru M4009
M4301 thru M4309

HALF SIZE D.I.L.
H1254, H1256,
H1258
H3254, H3256,
H3258
H4001 thru H4009
H4301 thru H4309

Thru-Hole, 5V Extended Temperature & COTS

These extended temperature thru-hole clock oscillators are especially attractive for COTS use. The hermetically sealed oscillators are available in (M) and half size (H) packages, for TTL and HCMOS output, and cover frequencies from 20 KHz to 100 MHz. Clock oscillators in this family operate over the -50°C to +200°C temperature range, and are available with thermal stability to ± 50 ppm. Tristate versions are also available.

These DIL packaged oscillators are extended temperature range versions of our popular HCMOS/TTL models. They are characterized in temperatures suitable for harsh environment. Each unit undergoes rigorous testing to ensure full compliance with the specification. Unit data is available at additional cost.

These parts may be used for “Commercial-Off-The-Shelf” or “COTS” in demanding designs.

FEATURES

- Many stability/package options
- Hermetically sealed
- Low supply current

CRYSTALS

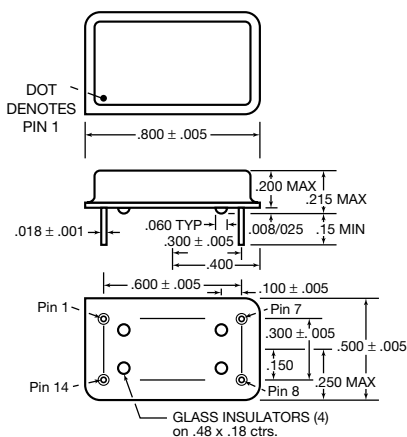
All crystals are processed in-house with tight angle control to assure best frequency-temperature characteristics.

PRE-SEAL BAKE

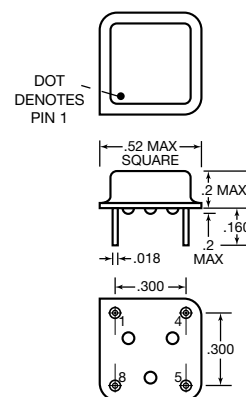
All units are vacuum baked before sealing at 175°C for 16 hours to eliminate moisture traces and pre-age units for superior aging.

FIXED OUTPUT		
MODEL	Frequency Stability	Temperature
1254	± 50 ppm	0 to 175°C
1256	± 75 ppm	-55 to +85°C
1258	± 100 ppm	-40 to +85°C
4001	± 500 ppm	-55 to 200°C
4002	± 500 ppm	0 to 200°C
4003	± 250 ppm	-55 to 200°C
4004	± 250 ppm	0 to 200°C
4005	± 250 ppm	-55 to 175°C
4006	± 250 ppm	0 to 175°C
4007	± 150 ppm	-55 to 175°C
4008	± 150 ppm	0 to 175°C
4009	± 100 ppm	-55 to 125°C

TRISTATE		
MODEL	Frequency Stability	Temperature
3254	± 50 ppm	0 to 175°C
3256	± 75 ppm	-55 to +85°C
3258	± 100 ppm	-40 to +85°C
4301	± 500 ppm	-55 to 200°C
4302	± 500 ppm	0 to 200°C
4303	± 250 ppm	-55 to 200°C
4304	± 250 ppm	0 to 200°C
4305	± 250 ppm	-55 to 175°C
4306	± 250 ppm	0 to 175°C
4307	± 150 ppm	-55 to 175°C
4308	± 150 ppm	0 to 175°C
4309	± 100 ppm	-55 to 125°C



“M” Package



“H” Package



