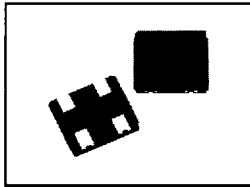


MODEL XOSM-56 Crystal Oscillators

Surface Mount



FEATURES

- Low profile
- Leadless package
- Compatible with reflow soldering
- CMOS and TTL compatible
- Available with tri-state option

ELECTRICAL SPECIFICATIONS

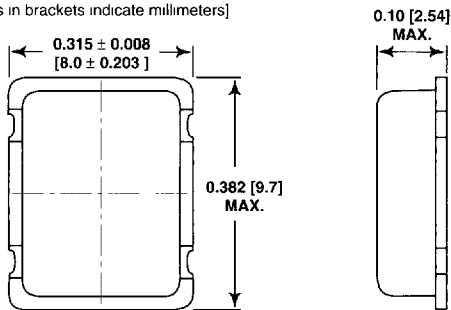
Frequency Range: 0.65 to 70MHz.
Frequency Stability: ± 100 PPM.
Operating Temperature: 0°C to +70°C.
Waveform Symmetry: 40 minimum, 60 maximum.
Rise and Fall Time: 2nS (TTL levels) maximum. 5nS (CMOS levels) maximum.
Output Voltage: Vol. = 0.5 V maximum. Voh. = Vdd - 0.5 V minimum.
Load Capability: 10 TTL or CMOS (15 PF).
Enable/Disable: Disable (tri-state) with 0.8 V maximum on Pin 1 enable with 2.2 V minimum on Pin 1. Internal pull-up provided.
Storage Temperature: -55°C to +125°C.
Supply Current, Maximum: 0.65 to 25.0MHz, 15 mA. 25.01 to 50.0MHz, 25 mA. 50.01 to 80MHz, 50 mA.

MECHANICAL SPECIFICATIONS

Leak Rate: $< 2 \times 10^{-8}$ Std. CC He/second.
Marking: Epoxy. Solvent resistant.
Solvent Resistance: Isopropyl alcohol, Freon TMC, trichloroethane.
Lead Plating: Gold plated.
Package: Ceramic with epoxy seal to cover.
ENVIRONMENTAL SPECIFICATIONS
Temperature Cycle: -55°C to +125°C, 3 cycles.
Shock: Less than 5PPM shift. 1000 G 0.35 millisecond, 1/2 sine.
Vibration: Less than 5PPM shift. 0.06 in D.A. 10 to 20Hz. 35 G. 20 to 2000Hz.
Heat Resistance: Reflow oven processing 150°C. Preheat for 2 minutes. 250°C peak for 30 seconds.

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]

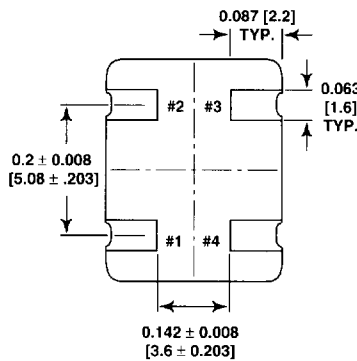


PIN CONNECTION

CAUTION: Damage may result if connected incorrectly.

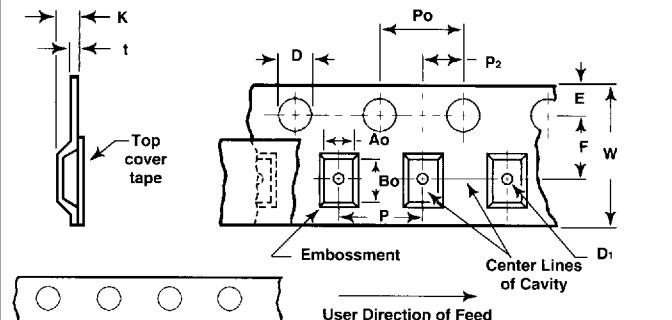
PIN	CONNECTION
1	Enable-Disable or No Connection
2	Ground
3	Output
4	Vdd

NOTE: Requires external bypass capacitor



TAPE AND REEL PACKAGING

24mm Tape and Reel Per EIA-481



SYMBOL	DIMENSIONS
W	0.945 ± 0.012 [24 ± 0.3]
P	0.472 ± 0.004 [12 ± 0.1]
E	0.069 ± 0.004 [1.75 ± 0.1]
F	0.453 ± 0.004 [11.5 ± 0.1]
Ao	0.335 [8.5] Ref
Bo	0.394 [10.0] Ref.
Po	0.157 ± 0.004 [4.0 ± 0.1]
P2	0.079 ± 0.004 [2.0 ± 0.1]
D	0.059 + 0.006 - 0 [1.5 + 0.15 - 0]
D1	0.059 [1.5] Min
K	0.110 [2.8] Ref
t	0.016 [0.4] Max.

PART MARKING

- Model
- Frequency
- Pin 1 identifier
- Dale

HOW TO ORDER

XOSM-56 MODEL B E 33.333
 MODEL FREQ. ACCURACY ENABLE/DISABLE FREQ./MHZ

E = Enable/Disable Option
 BLANK = Standard. Pin # 1 open.