# MVJL/MVJP SERIES – Low Jitter Ceramic J-Lead PECL/LVPECL VCXO

- **Hermetically Sealed Ceramic SMD Package**
- **Wide Frequency Range**
- **Available to -55°C to +125°C Operating**
- **Less than 1 pSec Jitter**

Pb-Free

RoHS COMPLIANT

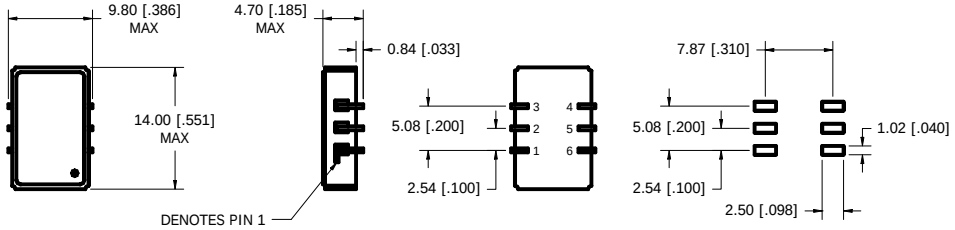
## ELECTRICAL SPECIFICATION:

| | | |
|---|---|---|
| Frequency Range | 70.000 MHz to 622.080 MHz | |
| Frequency Stability (Inclusive of Temp., Load, Voltage and Aging) | (See Part Number Guide for Options) | |
| Aging | ±5 ppm / yr max | |
| Operating Temp.Range | (See Part Number Guide for Options) | |
| Storage Temp. Range | -55°C to +125°C | |
| Supply Voltage (Vdd) | +3.3 VDC ±5% (LVPECL) | +5.0 VDC ±5% (PECL) |
| Supply Current | 60mA | 85mA |
| Control Voltage | +1.65VDC ±1.50VDC | +2.50VDC ±2.00VDC |
| Logic "0" | Vdd – 1.620 VDC max | |
| Logic "1" | Vdd- 1.025 vdc min | |
| Symmetry (50% of waveform) | (See Part Number Guide for Options) | |
| Load | 50 Ohms into Vdd-2.00 VDC | |
| Rise / Fall Time (20% to 80%) | 5nSec max | |
| Start Time | 5mSec max | |
| Jitter (RMS) | Less than 1 pSec | |
| Linearity | ±10% max | |
| Pullability | (See Part Number Guide for Options) | |

## MECHANICAL SPECIFICATION:

| | |
|---|---|
| Humidty | 85% RH, 85°C, 48 Hours |
| Hermetic Seal | Leak Rate 2 X $10^{-8}$ ATM-$cm^3$/sec max |
| Solderability | MIL-STD-202G, Method 208 |
| Reflow Solderability | 260°C for 10 seconds |
| Vibration | MIL-STD-202G, Method 204 35G, 50 to 2000 Hz |
| Shock | MIL-STD-202G, Method 203 Test Cond E, 1000G's, ½ Sinewave |
| MIL-STD-883 | Available with Level B Screening |

## PART NUMBERING GUIDE:




| PIN CONNECTIONS | |
|---|---|
| PIN 1 | VOLTAGE CONTROL |
| PIN 2 | ENABLE/DISABLE |
| PIN 3 | GROUND |
| PIN 4 | OUTPUT |
| PIN 5 | COMP. OUTPUT |
| PIN 6 | SUPPLY VOLTAGE |

Dimension in Brackets are in Inches
External Bypass Capacitor is Recommended

Recommended
Land Pattern

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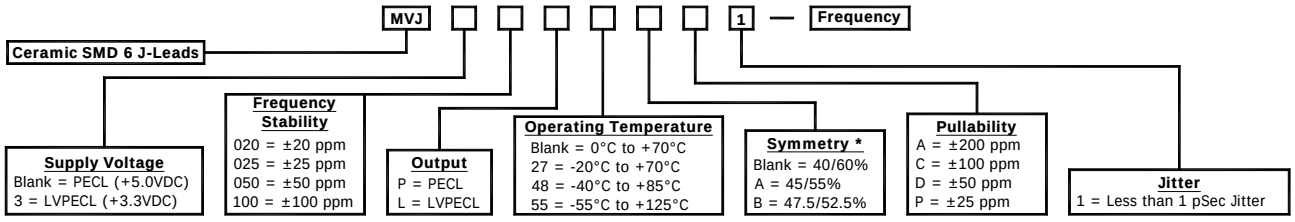


*Option B (47.5/52.5%) Available up to 500MHz only
Please Consult with MMD sales department for any other parameters or options.


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