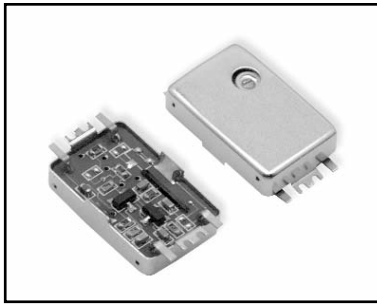


FMTCLS SERIES

5.0 Vdc TCXO

LEAD FRAME SMD



- 5.0 Vdc Supply Voltage
- HCMOS/TTL Compatible
- Clipped Sinewave
- Tight Stability Over Temp.

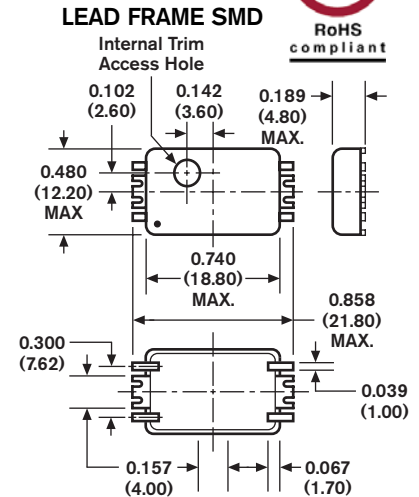
SPECIFICATIONS



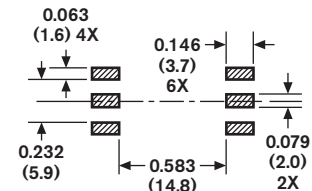
09 - Issue 2 - 020309

| Parameter | HCMOS/TTL Spec. | Clipped Sinewave Spec. |
|----------------------------------|--|------------------------|
| Frequency Range | 1.8432 - 48 MHz | 10.0 - 48 MHz |
| Frequency Adjustment Range | ±3 ppm min. | ±3 ppm min. |
| Frequency Stability vs. Temp | See Table | See Table |
| Frequency Stability vs. Input V. | ±0.5 ppm max. | ±0.5 ppm max. |
| Frequency Stability vs. Load | ±0.3 ppm max. | ±0.3 ppm max. |
| Frequency Stability vs. Aging | ±1 ppm per year max. | ±1 ppm per year max. |
| Storage Temperature | -40 to +85°C | -40 to +85°C |
| Supply Voltage (Vdd) | +5.0 Vdc (±0.25 Vdc) | +5.0 Vdc (±0.25 Vdc) |
| Supply Current (Icc) | 20 mA max. | 3 mA max. |
| Symmetry (Duty Cycle) | 40/60% Std. | 40/60% Std. |
| Output "0" Level (VOL) | 0.4 Vdc max. (TTL) 0.5 Vdc max. (HCMOS) | 1.0 Vp-p min. |
| Output "1" Level (VOH) | 2.4 Vdc min. (TTL) 4.5 Vdc min. (HCMOS) | 1.0 Vp-p min. |
| Rise and Fall Time | 10 ns max. | 10 ns max. |
| Output Load | 10 TTL / 15 pF HCMOS | 20 k ohms // 5 pF |
| Control Voltage (Vc) | N/A | N/A |
| Jitter (typical) | < 10 pico seconds, one sigma | |
| Phase Noise (typical) | 10 Hz | -75dBc/Hz |
| | 100 Hz | -110dBc/Hz |
| | 1kHz | -125dBc/Hz |
| | 10kHz | -130dBc/Hz |
| 100kHz | -140dBc/Hz | |
| Aging @ 25°C | ±1 ppm max first year | |

All specifications subject to change without notice.



Recommended Land Pattern



PIN FUNCTION TABLE

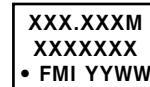
| Pin | Function |
|-----|----------------------|
| 1 | No Connect |
| 7 | Case Ground |
| 8 | Output |
| 14 | Supply Voltage (Vdd) |

FREQUENCY STABILITY vs. TEMPERATURE AVAILABILITY TABLE

| Temp. Range | FM Code | Frequency Stability (±ppm) | | | | | | | | | | | | |
|-------------|---------|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|---|---|---|
| | | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 10.0 | 15.0 | | | |
| 0 to 50°C | J | * | * | * | * | * | * | * | * | * | * | * | * | * |
| -10 to 60°C | E | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 0 to 70°C | A | | * | * | * | * | * | * | * | * | * | * | * | * |
| -20 to 70°C | B | | | * | * | * | * | * | * | * | * | * | * | * |
| -30 to 60°C | F | | | | * | * | * | * | * | * | * | * | * | * |
| -40 to 85°C | C | | | | | * | * | * | * | * | * | * | * | * |

* Denotes Availability

STANDARD MARKING



XXX.XXXM FREQUENCY in MHz

XXXXXXXX Part Number

Pin 1 Symbol, FMI, Date Code

Dimensions: Inches (mm)

Standard Specifications for product indicated in color

PART DESCRIPTION SYSTEM

FMTCLS 050 A SW - XX.XXXXXX - CM

