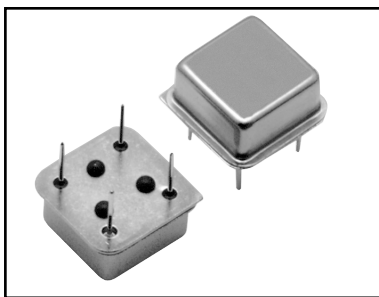


FMOC38 SERIES

3.3 Vdc Clock Oscillators

8 PIN DIP



- 3.3 Vdc Supply Voltage
- HCMOS/TTL Compatible
- Small Footprint
- Hermetically Sealed

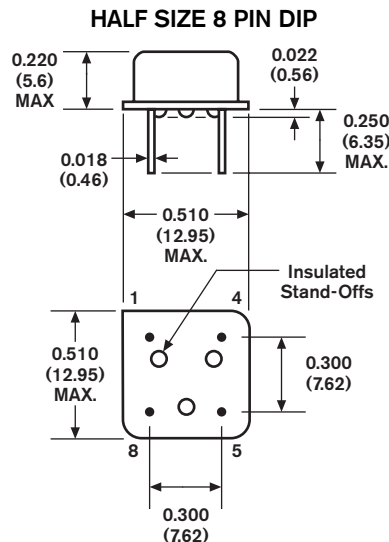
SPECIFICATIONS



05issue11022206

| Parameter | Specification |
|---|---|
| Frequency Range | 15.0 kHz - 160.0 MHz |
| Overall Frequency Tolerance | ±20 ppm to ±100 ppm (Inclusive of Operating Temp., Supply Voltage, & Load) |
| Operating Temperature Range | 0 to +70°C Std. (See Temp. Range Options) |
| Storage Temperature | -55 to +125°C |
| Supply Voltage (Vdd) | +3.3 Vdc (±0.3 Vdc) |
| Supply Current (Icc) | 15 mA max. @ 15.0 kHz to 23.9 MHz 25 mA max. @ 24.0 to 49.9 MHz 30 mA max. @ 50.0 to 85.0 MHz 70 mA max. @ 86.0 to 160.0 MHz |
| Symmetry (Duty Cycle) | 40/60% Std., 45/55%, 47.5/52.5% Available |
| Output "0" Level (VOL) | 0.4 Vdc max. (TTL) 0.4 Vdc max. (HCMOS) |
| Output "1" Level (VOH) | 2.4 Vdc min. (TTL) 2.7 Vdc min. (HCMOS) |
| Rise and Fall Time | 10 ns max. < 5 ns typical |
| Jitter | Absolute: ±100 pSec Max One Sigma: ±25 pSec Max |
| Start Time | 10 ms max. < 5 ms typical |
| Output Load | 2 TTL / 15 pF HCMOS |
| Pin 1 Options (See Spec. Option T below) | No Connect (Std.) Tri-State (option T) VIH: 2.2 V or Open Enables Output VIL: 0.8 V Disables Output |
| Output Disable/Enable Time: | 100 nS max. |
| Aging @ 25°C | ±5ppm max first year |

All specifications subject to change without notice.



PIN FUNCTION TABLE

| Pin | Function |
|-----|----------------------|
| 1 | NC or Tri-State |
| 4 | Case Ground |
| 5 | Output |
| 8 | Supply Voltage (Vdd) |

STANDARD MARKING

XXX.XXXM
XXXXXXX
• FMI YYWW

XXX.XXXM FREQUENCY in MHz
XXXXXXX Part Number
Pin 1 Symbol, FMI, Date Code

Standard Specifications for product indicated in color

Dimensions: ^{Inches}
(mm)

PART DESCRIPTION SYSTEM

FMOC38 00 A S/T - XX.XXXXXXM - CM

| Product Family |
|---|
| HCMOS/TTL Compatible 3.3 Vdc Clock Osc. Half Size 8 Pin DIP |

| Overall Frequency Tol. |
|------------------------|
| 20 ± 20 ppm |
| 25 ± 25 ppm |
| 50 ± 50 ppm |
| 00 ± 100 ppm |
| nn ± Custom Value |

| Temp. Range |
|----------------|
| A 0 to 70 °C |
| B -20 to 70 °C |
| C -40 to 85 °C |
| D -10 to 50 °C |
| E -10 to 60 °C |
| F -30 to 60 °C |
| J 0 to 50 °C |
| X Custom |

| Specification Options |
|------------------------------|
| S - Symmetry 45/55% |
| S1 - Symmetry 47.5/52.5% |
| T - Tri-State |
| BLANK - None Required (Std.) |

Frequency (MHz)

| Options |
|---------------------|
| GW - Gull Wing |
| JL - J-Lead |
| PD - Parameter Data |
| CM - Custom Mark |
| BLANK - None Req'd. |