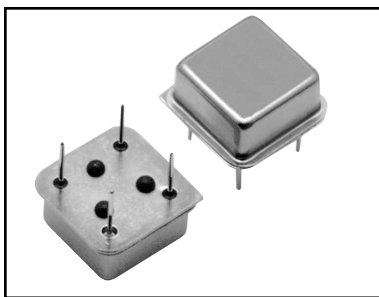


FMOC38 SERIES

3.3 Vdc Clock Oscillators

8 PIN DIP



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

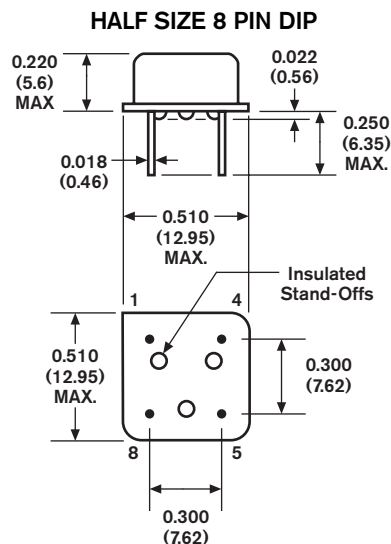
SPECIFICATIONS

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.