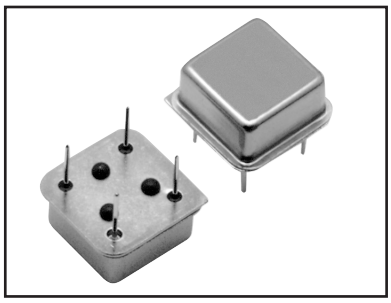
FMVC48 SERIES

5.0 Vdc VCXO

8 PIN DIP



- 5.0 Vdc Supply Voltage
- HCMOS / TTL Compatible
- Small Footprint
- Excellent Stability

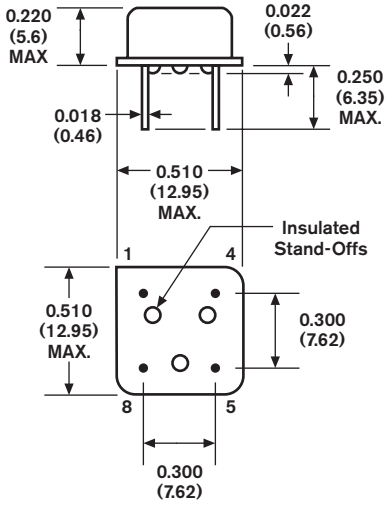
SPECIFICATIONS

05|issue1|121304

Parameter	Specification
Frequency Range	20.0 kHz - 160 MHz
Overall Frequency Tolerance	±20 ppm to ±100 ppm (±50 ppm STD) (Inclusive of Operating Temp., Supply Voltage, & Load.)
Operating Temperature Range	0 to +70°C Std.
Storage Temperature	-55 to +125°C
Supply Voltage (Vdd)	+5.0 Vdc (±0.5 Vdc)
Supply Current (Icc)	30 mA max. @ 20.0 kHz to 23.9 MHz 50 mA max. @ 24.0 to 60.0 MHz 75 mA max. @ 61.0 to 160.0 MHz
Symmetry (Duty Cycle)	40/60% Std., 45/55% Available (See Spec. Option S).
Output "0" Level (VOL)	0.4 Vdc max. (TTL) 0.5 Vdc max. (HCMOS)
Output "1" Level (VOH)	2.4 Vdc min. (TTL) 4.5 Vdc min. (HCMOS)
Rise and Fall Time	10 ns max. < 5 ns typical
Linearity	±20% max. Std. , ±10% Available (See Spec. Option L)
Output Load	10 TTL / 15 pF HCMOS < 40.0 MHz 15 pF HCMOS
Pullability	±100 to ±150 ppm typical @ 5.0 Vdd (Select a min. and max. pullability from part number.)
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
Control Voltage (Vc)	Nominal 2.5 Vdc, Range 0.5-4.5 Vdc, Positive Transfer @5.0 Vdd
Aging @ 25°C	±3 ppm max first year

All specifications subject to change without notice.

HALF SIZE 8 PIN DIP



PIN FUNCTION TABLE

Pin	Function
1	Control Voltage (Vc)
4	Case Ground
5	Output
8	Supply Voltage (Vdd)

NOTE: Waveforms & Test Circuits on pages 48, 49

Standard Specifications for product indicated in color

Dimensions: Inches (mm)

PART NUMBERING SYSTEM

MARKING: See Page 57, Format H

FMVC48 50 C G A S / L - XX.XXXXXXM - CM

Product Family
HCMOS/TTL Compatible
5.0 Vdc VCXO
Half-Size 8 Pin DIP

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

Min. Pullability
A - +1-50 ppm
B - ± 75 ppm
C - ± 100 ppm
D - ± 125 ppm
E - ± 150 ppm
X - Custom
Z - No Spec.

Max. Pullability
C - ± 100 ppm
D - ± 125 ppm
E - ± 150 ppm
F - ± 175 ppm
G - ± 200 ppm
X - Custom
Z - No Spec.

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

Frequency (MHz)

Spec. Options
S - Tight Symmetry (45/55%) Duty Cycle
L - Linearity ±10% Max.
BLANK- None Required (Std.)

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

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