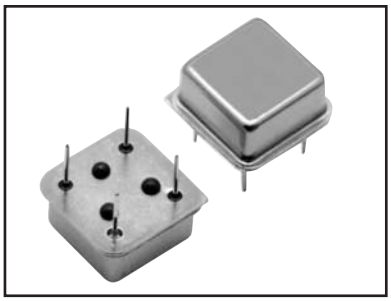
FMVC49 SERIES

3.3 Vdc VCXO

8 PIN DIP



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

SPECIFICATIONS

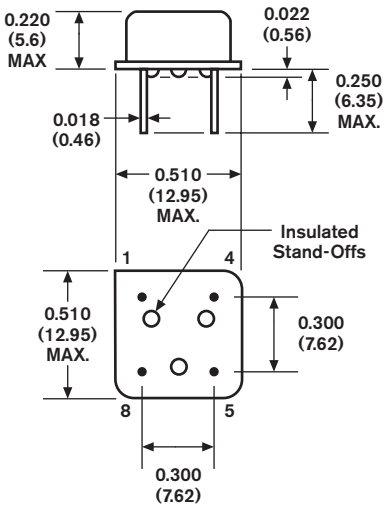
09 - Issue 2 - 021209

RoHS compliant

Parameter	Specification
Frequency Range	20.0 kHz - 200 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)	+3.3 Vdc (±0.3 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 90 mA max. @ 161.0 to 200.0 MHz
Symmetry (Duty Cycle)	40/60% Std., 45/55% Available (See Spec. Option S).
Output "0" Level (VOL)	0.3 Vdc max. @ +3.3 Vdc
Output "1" Level (VOH)	3.0 Vdc min. @ +3.3 Vdc 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	±50 to ±100 ppm typical @ 3.3 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)

STANDARD MARKING

XX.XXM
XXXXXXX
• FMI YYWW

XX.XXM FREQUENCY in MHz
XXXXXXX Part Number
ESD/Pin 1 Symbol, FMI, Date Code

Dimensions: Inches (mm)

Standard Specifications for product indicated in color

PART DESCRIPTION SYSTEM

FMVC49 50 C G A S / L - XX.XXXXXXM - CM

Product Family
HCMOS/TTL Compatible 3.3 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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