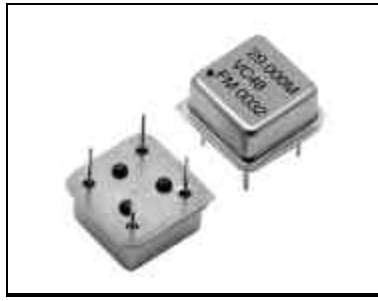


# FMVC48 SERIES

5.0 Vdc VCXO

www.DataSheet4U.com

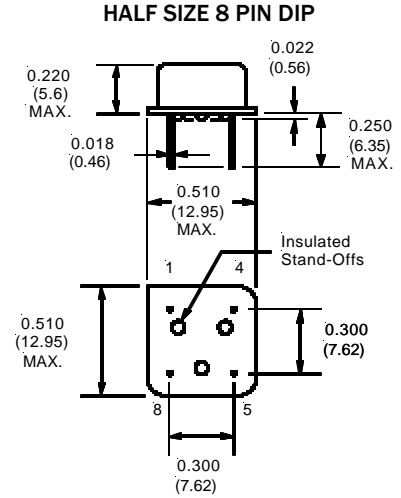
8 PIN DIP



- 5.0 Vdc Supply Voltage
- +3.3 Vdc Supply Voltage Option
- Small Footprint
- Excellent Stability

## SPECIFICATIONS

Parameter	Specification
Frequency Range	500.0 kHz to 55.0 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) or +3.3 Vdc (±0.3 Vdc)
Supply Current (Icc)	30 mA max. @ 500.0 kHz to 23.9 MHz 50 mA max. @ 24.0 to 60.0 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) (0.3 Vdc max. @ +3.3 Vdc)
Output "1" Level (VOH)	2.4 Vdc min. (TTL) 4.5 Vdc min. (HCMOS) (3.0 Vdc min. @ +3.3 Vdc)
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 ±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 Nominal 1.65 Vdc, Range 0.0-3.3 Vdc, Positive Transfer @3.3 Vdd
Aging @ 25 °C	±3 ppm max first year



PIN FUNCTION TABLE

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

All specifications subject to change without notice.

\* All specifications for 5.0 Vdc supply voltage unless otherwise noted.

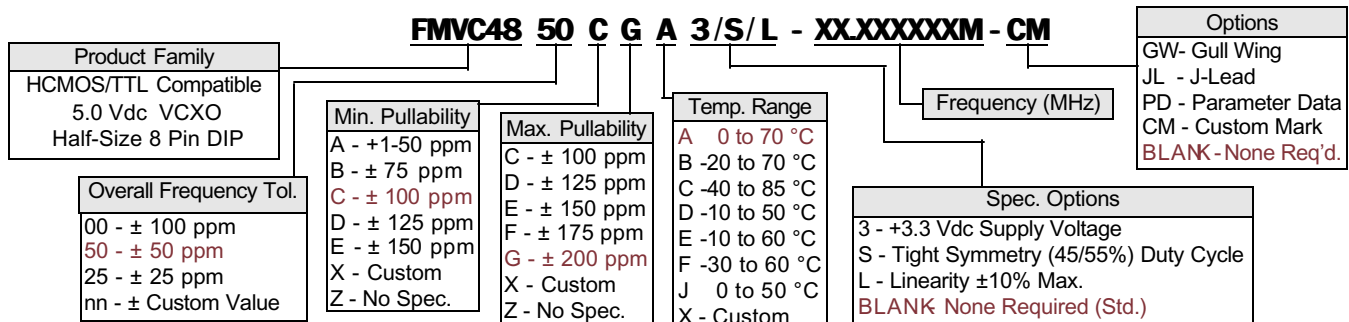
NOTE: Waveforms & Test Circuits on pages 48, 49

Standard Specifications for product indicated in color

Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$

## PART NUMBERING SYSTEM

## MARKING: See Page 57, Format H



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