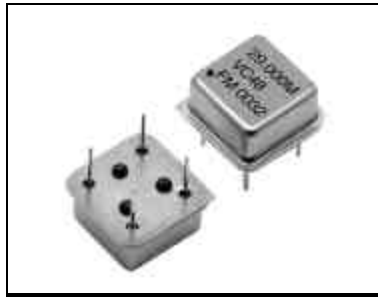


FMVC48 SERIES

5.0 Vdc VCXO

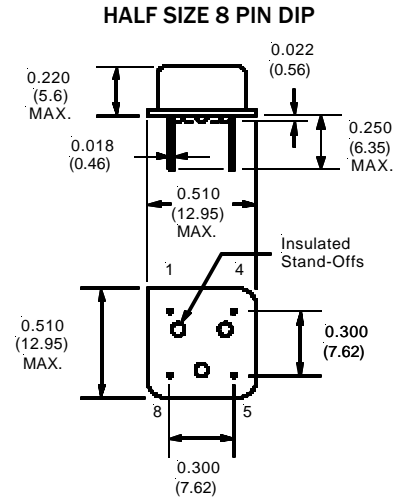
8 PIN DIP



- 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.

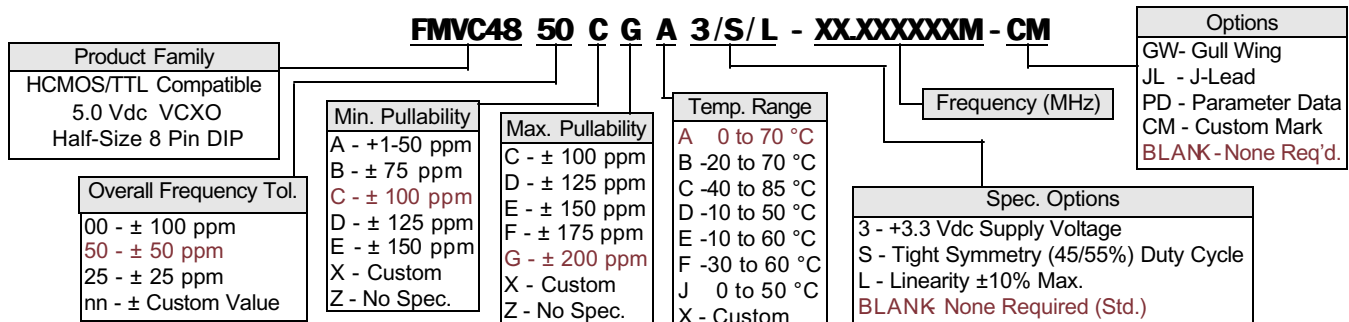
NOTE : Waveforms & Test Circuits on pages 48, 49

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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