

FMVC46 SERIES

5.0 Vdc VCXO

14 PIN DIP



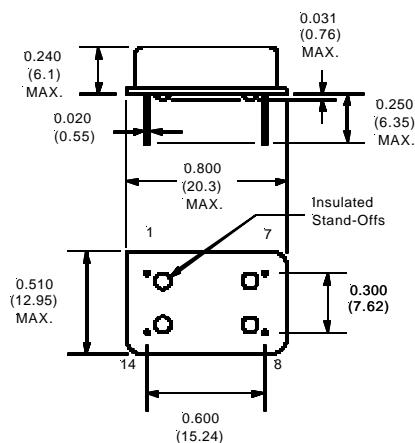
- 5.0 Vdc Supply Voltage
- HCMOS/TTL Compatible
- Wide Pullability Available
- High Frequency

SPECIFICATIONS

Parameter	Specification										
Frequency Range	500.0 kHz to 54.9 MHz (Std.) 55.0MHz to 155.52 MHz (Inverted Mesa)										
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. @ 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)										
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, ±75 to ±300 ppm Available. (Select a min. and max. pullability from part number.) Voltage Control Pin 1 Nom. 2.5 Vdc, Range 0.5 to 4.5 Vdc										
Jitter (typical)	< 10 pico seconds, one sigma										
Phase Noise (typical)	<table> <tr> <td>10 Hz</td> <td>-75dBc/Hz</td> </tr> <tr> <td>100 Hz</td> <td>-110dBc/Hz</td> </tr> <tr> <td>1kHz</td> <td>-125dBc/Hz</td> </tr> <tr> <td>10kHz</td> <td>-130dBc/Hz</td> </tr> <tr> <td>100kHz</td> <td>-140dBc/Hz</td> </tr> </table>	10 Hz	-75dBc/Hz	100 Hz	-110dBc/Hz	1kHz	-125dBc/Hz	10kHz	-130dBc/Hz	100kHz	-140dBc/Hz
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Control Voltage (Vc)	Nominal 2.5 Vdc, Range 0.5-4.5 Vdc, Positive Transfer										
Aging @ 25 °C	±3 ppm max first year										

All specifications subject to change without notice.

FULL SIZE 14 PIN DIP



PIN FUNCTION TABLE

Pin	Function
1	Control Voltage (Vc)
7	Case Ground
8	Output
14	Supply Voltage (Vdd)

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 G

FMVC46 50 C G A S/L - XX.XXXXXXM - CM						Options
Product Family	Min. Pullability	Max. Pullability	Temp. Range	Frequency (MHz)	Spec. Options	GW- Gull Wing PD - Parameter Data CM - Custom Mark BLANK - None Req'd.
HCMOS/TTL Compatible 5.0 Vdc VCXO Full-Size 14 Pin DIP	A - ± 50 ppm B - ± 75 ppm C - ± 100 ppm D - ± 125 ppm E - ± 150 ppm X - Custom Z - No Spec.	C - ± 100 ppm D - ± 125 ppm E - ± 150 ppm F - ± 175 ppm G - ± 200 ppm X - Custom Z - No Spec.	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		S - Tight Symmetry (45/55%) Duty Cycle L - Linearity ±10% Max. BLANK None Required (Std.)	
Overall Frequency Tol.						
00 - ± 100 ppm 50 - ± 50 ppm 25 - ± 25 ppm 20 - ± 20 ppm nn - ± Custom Value						



15302 Bolsa Chica St., Huntington Beach, CA. 92649
Tel: 714-892-3234 Fax: 714-890-1832
E-mail: sales@frequencymanagement.com
www.frequencymanagement.com

1-800-800-XTAL
(9825)