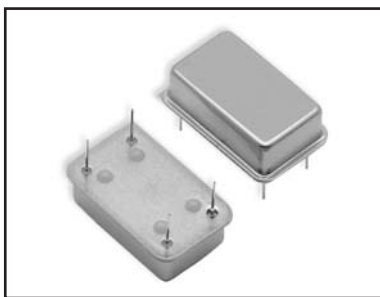


# FMVPCL3 SERIES

3.3 Vdc PECL VCXO

14 PIN DIP



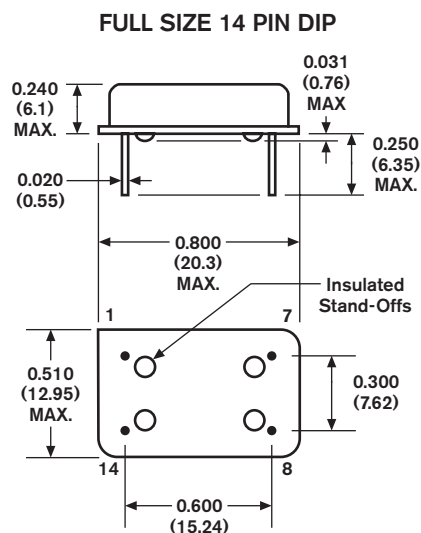
- 3.3 Vdc PECL
- Precise Clock Edges
- High Frequency /Low Noise
- SMD Gull-Wing Option

## SPECIFICATIONS

05|issuel|110504

Parameter	Specification										
Frequency Range	30.0 - 160.0 MHz										
Overall Frequency Tolerance	±25 ppm to ±100 ppm (Inclusive of Operating Temp., Supply Voltage and Load)										
Operating Temperature Range	0 to +70° C Std. (See Temp. Range)										
Storage Temperature	-55° to +125° C										
Supply Voltage (Vdd)	+3.3 Vdc (±0.3Vdc)										
Supply Current	100 mA max.										
Symmetry (Duty Cycle)	40/60% Std., 45/55% Avail. (See Spec. Options S)										
Logic Type	ECL Squarewave, 100K Compatible										
Output "0" Level (VOL)	Vdd - 1.60 Vdc max.										
Output "1" Level (VOH)	Vdd - 1.02 Vdc min.										
Jitter (typical)	< 10 pico seconds, one sigma										
Phase Noise (typical)	<table border="1"> <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
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										
Rise and Fall Time	2 nS max.										
Linearity	±20% max. Std. , ±10% Available (See Spec. Option L)										
Aging	±3 ppm first year max.										

All specifications subject to change without notice.



### PIN FUNCTION TABLE

Pin	Function
1	Control Voltage (Vc)
7	Case Ground ( Vee)
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

