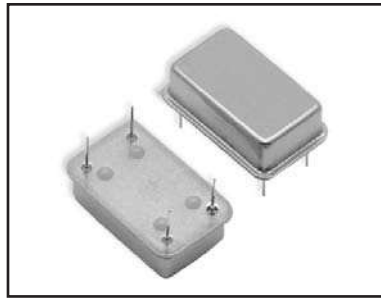


FMVC30 SERIES

3.3 Vdc VCXO

14 PIN DIP



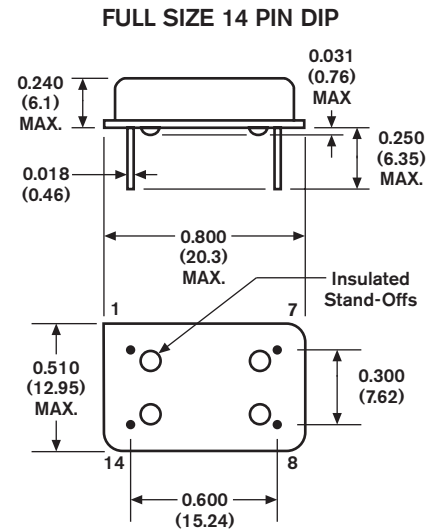
- High Frequency via Multiplier
- 3.3 Vdc Supply Voltage
- HCMOS/TTL Compatible
- Lower Cost

SPECIFICATIONS

09 - Issue 2 - 021209



Parameter	Specification
Frequency Range	40.0 to 200 MHz
Overall Frequency Tolerance	±20 ppm to ±100 ppm (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 (±0.5 Vdc)
Supply Current (Icc)	30 mA max. @ 60.0 to 99.9 MHz 50 mA max. @ 100.0 to 200.0 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
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)	< 25 pico seconds, one sigma
Phase Noise (typical)	10 Hz -75dBc/Hz 100 Hz -105dBc/Hz 1kHz -100dBc/Hz 10kHz -90dBc/Hz 100kHz -95dBc/Hz 1MHz -120dBc/Hz
Control Voltage (Vc)	Nominal 2.5 Vdc, Range 0.5-4.5 Vdc, Positive Transfer
Aging @ 25°C	±3 ppm max first year



PIN FUNCTION TABLE

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

All specifications subject to change without notice.

STANDARD MARKING

XX.XXM
XXXXXXX
• FMI YYWW

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

Standard Specifications for product indicated in color

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

PART DESCRIPTION SYSTEM

Product Family HCMOS/TTL Compatible 3.3 Vdc VCXO via Multiplier Full-Size 14 Pin DIP	FMVC30 50 C G A S / L - XXX.XXXXXXM - CM	Options GW- Gull Wing PD - Parameter Data CM - Custom Mark BLANK - None Req'd.
Overall Frequency Tol. 20 ± 20 ppm 25 ± 25 ppm 50 ± 50 ppm 00 ± 100 ppm nn ± Custom Value	Min. Pullability B ±75 ppm C ±100 ppm D ±125 ppm E ±150 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
	Max. Pullability C ±100 ppm D ±125 ppm E ±150 ppm F ±175 ppm G ±200 ppm X Custom Z No Spec.	Frequency (MHz) S - Tight Symmetry (45/55%) Duty Cycle L - Linearity ±10% Max. BLANK - None Required (Std.)