

VFSA(B)5P(3P) SERIES

- Full-Sive 14 PIN DIP VCXO
- 5.0 and 3.3
- PECL Output
- Stability to ± 20 ppm



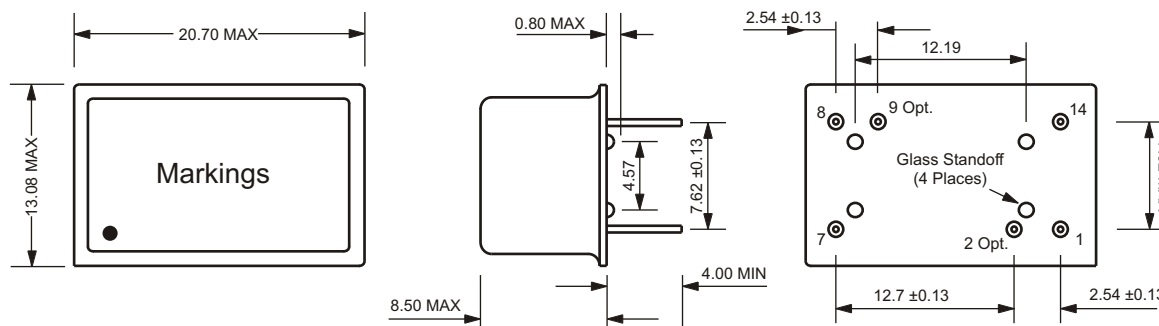
ASCEND

FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	-	77.760MHz to 200.000MHz
Frequency Stability:	-	± 100 ppm to ± 20 ppm
Frequency Deviation:	-	± 100 ppm minimum
Control Voltage:	Positive Slope	.3Vdc to 3.0Vdc
Operating Temperature Range:	-	0°C to +70°C
Storage Temperature Range:	-	-55°C to +95°C
Supply Voltage (Vdd):	-	5.0Vdc $\pm 5\%$ or 3.3Vdc $\pm 5\%$
Supply Current:	-	150mA maximum
Output Voltage:	Logic 0 Logic 1	Vdd -1.5Vdc Maximum Vdd -1.2Vdc minimum
Duty Cycle:	50% of waveform	50% $\pm 5\%$ maximum
Load Drive Capability:	-	50 Ohms into -2.0Vdc or Thevenin Equiv.
Rise/Fall Time:	20% to 80% of waveform	1nSec maximum
Jitter:	RMS	5pSec maximum
Aging:	-	$< \pm 10$ ppm / 5years
Tune Port Input Impedance:	-	10K Ohms minimum
Tune Port Input Modulation Bandwidth:	-	20KHz minimum

Mechanical Dimensions



6 Pin Version

Pad	FUNCTION
1	Control Voltage
2	Enable*
7	Vee
8	Output
9	Complementary Output
14	Vdd

5 Pin Version

Pad	FUNCTION
1	Vc
7	Vee
8	Output
9	Complementary Output
14	Vdd

Pins 2 and 9 are optional

ALL DIMENSIONS
IN MILLIMETERS

MARKING

Line 1: Ascend
Line 2: XX.XXXR
("R" Denotes RoHS Compliance)
Line 3: XXXXXX (Date Code)

*Enable Operation

Logic 1 or NC = Oscillation
Logic 0 or GND = No Oscillation

Note:

PECL Output, Vee = Case Ground

Part Numbering Guide

VFSA 5P A 1 A - 33.000M - G

Series

VFSA = 14 Pin DIP VCXO with 5 Pins
VFSA = 14 Pin DIP VCXO with 6 Pins

Supply Voltage

5P = 5.0V
3P = 3.3V

Freq. Toler/Stab.

A = ± 100 PPM
B = ± 50 PPM
C = ± 25 PPM
D = ± 20 PPM

Value added Options

G = Gull Wing**
CLXXX = Cut Leads***

Frequency

Duty Cycle

A = 45% / 55%

Temperature Range

1 = 0°C to +70°C