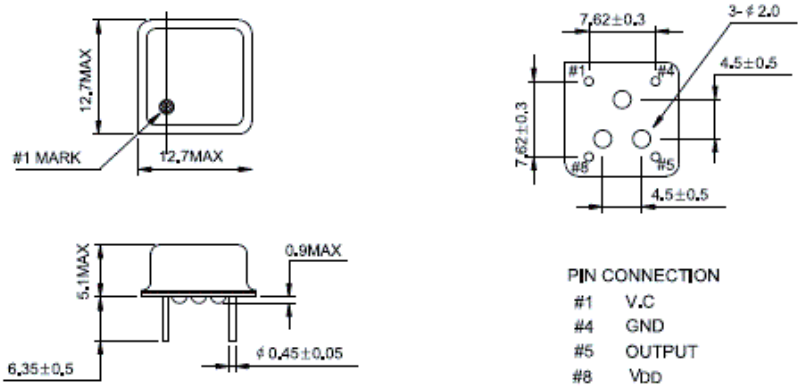
CRESCENT
FREQUENCY PRODUCTS

CV8 Series
VCXO

12.7x12.7mm
Metal Can
RoHS Compliant
HCMOS / TTL
3.3 or 5.0VDC
1.000 to 300.000MHz
VC on Pin 1

Mechanical Dimensions

Dimensions are in millimeters. Dot indicates pin one location.



Electrical Specifications

Frequency Range	1.000MHz to 300.000MHz	
Stability	10ppm, 20ppm, 25ppm, 50ppm, or 100ppm*	
Operating Temperature Range	0°C to 70°C or –40°c to 85°C*	
Storage Temperature	-55°C to 125°C	
Output	HCMOS/TTL Output	
Supply Voltage	5.0V_{DC} ±5% Or 3.3V_{DC} ± 5%	
Linearity	±20%, ±15%, ±10% or ±5%	
Load Drive	10TTL Load Or 15pF HCMOS Load	
Frequency Deviation / Pin 1 Control Voltage	See Part Numbering Guide	
Duty Cycle	50 ± 5%	
Output Voltage Logic High (V_{OH})	With TTL Load With HCMOS Load	2.4V_{DC} Min. 90% of V_{DD} Min.
Output Voltage Logic Low (V_{OL})	With TTL Load With HCMOS Load	0.4V_{DC} Min. 10% of V_{DD} Max
Rise / Fall Time	5nS Max	
Start Time	10mS Max	
Jitter Period: pk-pk Period: One Sigma	 100pS Max 25pS Max	
Input Current	1.000 to 25.000MHz 25.001 to 50.000MHz 50.001 to 80.000MHz 80.001 to 155.520MHz	 20mA Max 30mA Max 40mA Max 50mA Max

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FREQUENCY PRODUCTS

Part Numbering Guide

CV8 A 3 X J G-25.000MHz-S

Series
CV8

Tolerance / Stability
A = 100ppm
B = 50ppm
C = 25ppm
D = 20ppm
E = 10ppm

Operating Temperature Range
2 = -0° to 70°C
3 = -40°C to 85°C
*Not all temp ranges available with all stabilities

Pullability
W = 50ppm
X = 80ppm
Y = 100ppm
V = 200ppm
Z = 300ppm

Height Options
Blank = 7.5mm Max
S = 5.1mm Max

Center Frequency
1.00MHz to 300.000MHz

Supply Voltage
F = 2.5VDC
G = 3.3VDC

Linearity
I = 5%
J = 10%
K = 15%

Part Marking Guide

Line #1	CFP CV8
Line #2	XX.XXX M XX.XXX = Frequency (5 Digits Max + Decimal) M = Frequency Unit Of Measure (MHz)
Line #3	XX YY ZZ XX = Crescent Manufacturing Identifier YY = Last Two Digits of Year ZZ = Week of Year

Environmental & Mechanical

Shock	MIL-STD-883, Method 2002, Condition B
Solderability	MIL-STD-883, Method 2003
Vibration	MIL-STD-883, Method 2007, Condition A
Reflow Solderability	260°C For 10 Seconds
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-88s, Method 1014, Condition C