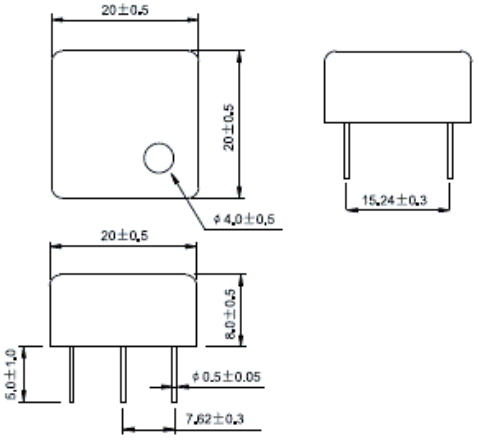
CRESCENT
FREQUENCY PRODUCTS

CT20S
VC / TCXO

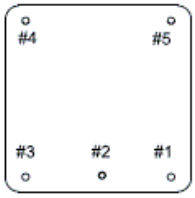
11.4 x 9.6 x 8.0mm
9.600MHz to 40.000MHz
RoHS Compliant
Clipped Sinewave
3.3 or 5.0VDC
VC Option on Pin 3

Mechanical Dimensions

Dimensions are in millimeters



Land Pattern



PIN CONNECTION
#1 V_{DD}
#2 OUTPUT
#3 V_C or GND
#4 GND
#5 GND

Electrical Specifications

Frequency Range	9.600MHz To 40.000MHz
Frequency Deviation	±5.0ppm or 10ppm minimum Over Control Voltage
Frequency Stability	Vs. Operating Temp Rang: See Part Numbering Guide Vs. Input Voltage (±5%) : ± 0.3ppm Max Vs. Load (±10%): ± 0.3ppm Max
Supply Voltage	3.3VDC ± 5% or 5.0VCD ±5%
Output Voltage Logic High (V_{OH}) Logic Low (V_{OL})	 0.8Vp-p Min (V_{DD} : 3.3V_{DC}) 1.0Vp-p Min (V_{DD} : 5.0V_{DC})
Load Drive Capability	10kOhms//10pF
Control Voltage (External)	1.65V_{DC} ± 1.65V_{DC} (V_{DD} : 3.3V_{DC}), 2.5V_{DC} ± 2.0V_{DC} (V_{DD} : 5.0V_{DC}) (Positive Transfer Characteristic)
Internal Trim (Top of Can)	±3ppm min
Input Current	9.600 to 27.000MHz: 3mA Max 27.001 to 40.000MHz : 4mA Max
Rise / Fall Time	5nS Max
Duty Cycle	50±10%
Aging	±1ppm Per Year Max

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Environmental & Mechanical

Shock	Mil-STD-883, Method 2002, Condition B
Solderability	Mil-STD-883, Method 2003
Solvent Resistance	Mil-STD-883, Method 215
Vibration	Mil-STD-883, Method 2007, Condition A

Part Numbering Guide

CT20S F 3 G 1 A -25.000MHz

Series
CT20S

Tolerance / Stability
B = 1.0ppm
C = 1.5ppm
D = 2.0ppm
E = 2.5ppm
F = 5.0ppm

Operating Temperature Range
2 = -0° to 55°C
3 = -10°C to 60°C
4 = -20°C to 70°C
6 = -30°C to 85°C
7 = -40°C to 85°C
Not all temp ranges available with all stabilities

Center Frequency
9.600MHz to 40.000MHz

Frequency Deviation
Blank = TCXO
A = 10ppm
B = 5ppm

Pin Three Connection
1 = No Connect
2 = Voltage Control

Supply Voltage
H = 3.3VDC
J = 5.0VDC

Part Marking Guide

Line #1	CFP CT20S
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