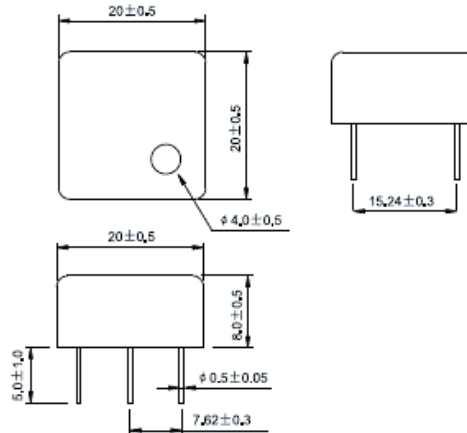


CT20H VC / TCXO

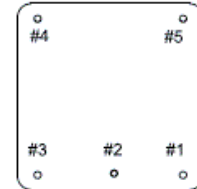
20.0 x 20.0 x 8.0mm
1.200MHz to
40.000MHz
RoHS Compliant
HCMOS / TTL
3.3 or 5.0VDC
10.000MHz to
27.000MHz
VC Option on Pin 3

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	1.200MHz 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 5.0VDC ± 5%
Output Voltage Logic High (V _{OH}) Logic Low (V _{OL})	With TTL: 2.4V _{DC} Min With HCMOS: 90% of V _{DD} Min With TTL: 0.4V _{DC} Max With HCMOS: 10% of V _{DD} Max
Load Drive Capability	10 TTL Load or 15pF HCMOS Load (STD)
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	1.200 to 27MHz: 25mA Max 27.001 to 40.000MHz : 40mA Max
Rise / Fall Time	4nS Max
Duty Cycle	50±10%
Aging	±1ppm Per Year Max

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

Series
CT20H

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

CT20H F 3 G 1 A -25.000MHz

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 CT20H
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