



**PRODUCTS**

**Voltage Controlled Crystal Oscillator (Through Hole)**

**Typical Applications:**

- Digital Transmission
- Instrumentation

# VC20 Series (Through Hole Voltage Controlled Crystal Oscillator Series)

Part Number: VC20 Series - Waveform - Stability- Freq - Vcc - Pulling

Example: VC20SB-12.800-12.0V-D

**Specification**

VC20

Part No.	Example
VC20 Series - Waveform - Stability - Freq - Vcc - Pulling	VC20SB-12.800-12.0V-D

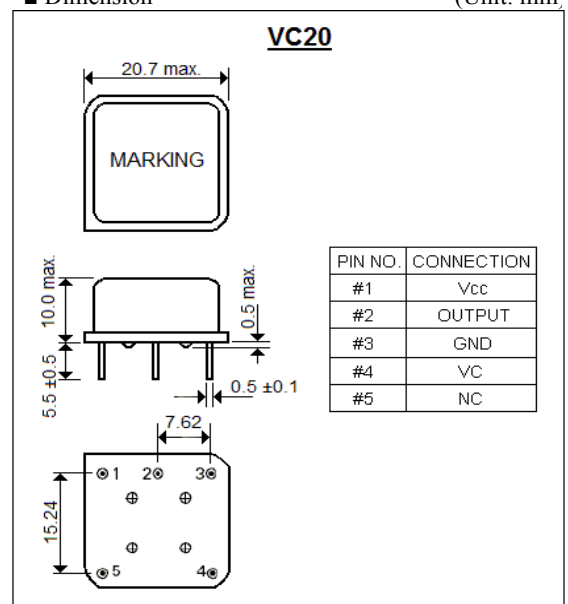
Specification	VC20
Frequency Range	10.000 ~ 40.000MHz
Output Waveform	HCMOS / TTL <span style="float: right;">Sinewave / Clipped Sinewave</span>
Load	15pF / 4 TTL <span style="float: right;">50 ohms / 10 Kohms/10pF</span>
Frequency Stability vs. Temperature (Typical)	A: ±0.5ppm <span style="float: right;">-40°C to +85°C</span>
	B: ±0.28ppm <span style="float: right;">-20°C to +70°C</span>
Short Term Stability	C: ±0.1ppm <span style="float: right;">-40°C to +85°C</span>
	D: ±0.05ppm <span style="float: right;">-20°C to +70°C</span>
Frequency Stability vs. Calibration (@25°C)	±0.3ppm max.
Rise and Fall Time	10 nsec max. (10% / 90% Vout)
Storage Temperature Range	-50°C to +90°C
Frequency Stability vs. Load Deviation	±0.05ppm max. @ ±10% variation from standard load
Frequency Stability vs. Supply Deviation	±0.05ppm max. @ ±5% variation from nominal supply
Frequency Stability vs. Aging	±0.5ppm/year max. or ±1.0ppm/year max.
Supply Voltage (Vcc)	12V, 5V, 3.3V(optional) ±5%
Current	10mA max.
Duty Cycle (Typical)	40 / 60% ( at 50% Vcc)
Pulling	N: No frequency adjustment / D: ±8ppm (typ.)
Phase Noise (@1KHz)	-135dBc / Hz (No PLL) <span style="float: right;">-125dBc / Hz (PLL)</span>

Note: This is a typical parameter spec., please contact us for detail specification sheet.



**Dimension**

(Unit: mm)



HIGH PRECISION OSCILLATOR