



PRODUCTS

Voltage Controlled Crystal Oscillator (Through Hole)

Typical Applications:

- Digital Transmission
- Instrumentation

VC20 series (Voltage Controlled Crystal Oscillator Through Hole 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 Sinewave / Clipped Sinewave
Load	15pF / 4 TTL 50 ohms / 10 Kohms/10pF
Frequency Stability vs. Temperature (Typical)	A: ±0.5ppm -40°C to +85°C C: ±0.1ppm -40°C to +85°C
	B: ±0.28ppm -20°C to +70°C D: ±0.05ppm -20°C to +70°C
Short Term Stability	2x10 ⁻¹⁰ / sec 2x10 ⁻¹¹ / sec
Rise and Fall Time	10 nsec max. (10% / 90% Vout)
Frequency Stability vs Calibration (@25°C)	±0.3ppm max.
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) -125dBc / Hz (PLL)

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

HIGH PRECISION OSCILLATOR



Dimension

(Unit: mm)

