

HCMOS SQUAREWAVE OUTPUT OCXO IN 20.3x20.3 mm DIP PACKAGE - OC20C Series

FEATURES

- RoHS Compliant, Wide Frequency Range (5 MHz to 150 MHz)
- SC-cut Crystal, Stratum3 or Better Stability, 15 pF HCMOS Square Wave Output
- Voltage Control Option, Industry Standard Lead Spacing
- Standard Frequencies: 10, 12, 12.8, 13, 14.4, 16.384, 32.768, 100.00 MHz

SPECIFICATIONS

Frequency Stability vs. Temp

Temperature Range Aging (after 30 days) Initial Tolerance Frequency vs. Load

Frequency vs. Voltage Storage Temperature Range $5 = \pm 5$ ppb; $10 = \pm 10$ ppb; $20 = \pm 20$ ppb; $50 = \pm 50$ ppb; $100 = \pm 100$ ppb

A = 0°C to 70°C; B = -40°C to 85°C; D = -20°C to 70°C ± 0.1 ppb per day; ± 0.015 ppm per year - 10MHz part

 ± 0.1 ppm Typ, at 25°C, Vc = 1/2 Vref ± 0.02 ppm Typ / $\pm 5\%$ load change

±0.02 ppm/V Typ -60°C to 90°C

Phase Noise(Typ) -121 dBc/Hz @10Hz, -141 dBc/Hz @100Hz

-155 dBc/Hz @1KHz, -160 dBc/Hz @10KHz

G-Sensitivity ±1.0 ppb/G Typ, Worst direction

Inpuy Voltage (Vcc) $A = +5 \text{ VDC} \pm 5\%$; $B = +3.3 \text{ VDC} \pm 5\%$; $T = +12 \text{ VDC} \pm 5\%$

Input Power (Max) Steady state: 1200 mW at 25°C

Start-up: 3500 mW

Output Load 15 pF

Warm-up Time 3 minutes Maximum, to ±0.1 ppm accuracy

Output Waveform HCMOS compatible square wave; 45/55% Duty cycle Logic "1" / Logic "0" Level 3.7V (5V, 12V part); 2.4V (3.3V part) / 0.4V Typ

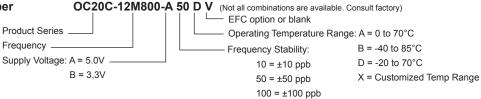
Risa/Fall Time (Tr/Tf) 10 ns Maximum

EFC Range ±0.3 ppm Minimum, Control voltage Vc = 0 to 4.2V (5V, 12V), 3.1V (3.3V)

Linearity / Slope ±10% Maximum of best straight line fit / Positive

EFC Input Impedance 100 kOhms Minimum

Creating a Part Number



OUTLINE DRAWING

