

HCMOS SQUAREWAVE OUTPUT OCXO IN 1"x1" DIP PACKAGE - OC25C Series

FEATURES

- RoHS Compliant, Wide Frequency Range (1 MHz to 100 MHz), 15 pF HCMOS Square Wave Output
- AT-cut or SC-cut Crystal, Stratum3 or Better Stability, 5V or 12V Supply Voltage
- 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 $50 = \pm 50$ ppb; $100 = \pm 100$ ppb; $500 = \pm 500$ ppb Temperature Range $A = 0^{\circ}C$ to $70^{\circ}C$; $B = -40^{\circ}C$ to $85^{\circ}C$; $D = -20^{\circ}C$ to $70^{\circ}C$

Aging (after 30 days) 1E-7 first year, at 10MHz AT-cut **Initial Tolerance** ± 0.05 ppm Typ, at 25°C, Vc = 1/2 Vcc Frequency vs. Load ±0.02 ppm Typ / ±5% load change

Frequency vs. Voltage ±0.02 ppm/V Typ Storage Temperature Range -40°C to 105°C

Phase Noise(Typ,10MHz,AT-cut) -115 dBc/Hz @10Hz, -135 dBc/Hz @100Hz

-150 dBc/Hz @1KHz, -155 dBc/Hz @10KHz

G-Sensitivity ±0.002 ppm/G, Worst direction

 $A = +5 \text{ VDC } \pm 5\%$; $B = +3.3 \text{ VDC } \pm 5\%$; $T = +12 \text{ VDC } \pm 5\%$; $U = +15 \text{ VDC } \pm 5\%$ Inpuy Voltage (Vcc)

Input Current (Max) Steady state: 200 mA / 120 mA for Vcc = 5V / 12V at 25°C

Start-up: 500 mA / 250 mA for Vcc = 5V / 12V

Output Load 15 pF

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

Output Waveform HCMOS compatible square wave; 40/60% Duty cycle

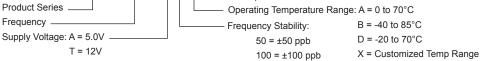
Logic "1" / Logic "0" Level 4.5V / 0.5V Typ Risa/Fall Time (Tr/Tf) 5 ns Maximum

EFC Range ±5 ppm/AT-cut, ±0.7 ppm/SC-cut, with control voltage Vc = 0.5V to 4.5V

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

100 kOhms Minimum **EFC Input Impedance**

$\textbf{OC25C-12M800-A 50 D V} \quad \text{(Not all combinations are available. Consult factory)}$ **Creating a Part Number** EFC option or blank



U = 15V $500 = \pm 500 \text{ ppb}$

