

## HCMOS SQUAREWAVE OUTPUT OCXO IN EUROPACK (36.2x27.2x16 mm) - OC36C 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**  $\pm 0.05$  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

 $A = +5 \text{ VDC} \pm 5\%$ ;  $T = +12 \text{ VDC} \pm 5\%$ ;  $U = +15 \text{ VDC} \pm 5\%$ 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

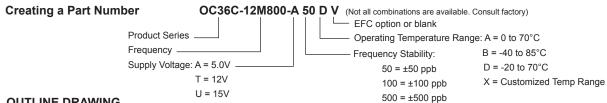
**Output Waveform** HCMOS compatible square wave; 40/60% Duty cycle

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

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

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

**EFC Input Impedance** 100 kOhms Minimum



## **OUTLINE DRAWING**

