MINIATURE HCMOS OUTPUT OCXO IN 14 PIN DIP PACKAGE - OC14C Series

FEATURES

- Wide Frequency Range (1 MHz to 100 MHz), 15 pF HCMOS Output
- AT-cut Crystal, Stratum3 or Better Stability
- Voltage Control Option, Industry Standard Lead Spacing
- Standard Frequencies: 10, 12, 12.8, 13, 14.4, 16.284, 32.768, 100.00 MHz

SPECIFICATIONS

Frequency Stability vs. Temp	100 = ±100 ppb; 500 = ±500 ppb; 1000 = ±1000 ppb
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; D = -20°C to 70°C
Aging (after 30 days)	5E-7 first year, at 10MHz
Initial Tolerance	±0.5 ppm Typ, at 25°C, Vc = 1/2 Vcc
Frequency vs. Load	5E-8 Typ / ±5% load change
Frequency vs. Voltage	5E-8/V Typ
Phase Noise (Max, 10MHz)	-100 dBc/Hz @10Hz, -125 dBc/Hz @100Hz -140 dBc/Hz @1KHz, -150 dBc/Hz @10KHz
Retrace	±0.05 ppm Maximum after 30 minutes
G-Sensitivity	±0.002 ppm/G, Worst direction
Inpuy Voltage (Vcc)	A = +5VDC ± 5%; B = +3.3VDC ± 5% (available up to 40MHz)
Input Current (Max)	Steady state: 150 mA at 25°C; Start-up: 500 mA
Output Load	15 pF
Warm-up Time	3 minutes Maximum, to ±0.1 ppm accuracy
Output Waveform	HCMOS compatible squarewave; 40/60% Duty cycle
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Risa/Fall Time (Tr/Tf)	5 ns Maximum
EFC Range	±5 ppm, with control voltage Vc = 0.5V to 4.5V
Linearity / Slope	±10% Maximum of best straight line fit / Positive
EFC Input Impedance	100 kOhms Minimum

Creating a Part Number **OC14C-32M768-A 100 A V** (Not all combinations are available. Consult factory)

- Product Series
- Frequency
- Supply Voltage: A = 5.0V, B = 3.3V
- Frequency Stability: 100 = ±100 ppb, 500 = ±500 ppb, 1000 = ±1000 ppb
- Operating Temperature Range: A = 0 to 70°C, B = -40 to 85°C, D = -20 to 70°C, X = Customized Temp Range
- EFC option or blank

OUTLINE DRAWING