



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

FEATURES

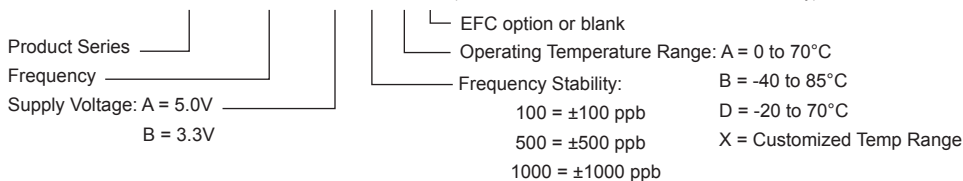
- RoHS Compliant, Wide Frequency Range (1 MHz to 100 MHz), 15 pF HCMOS Output
- AT-cut Crystal, Stratum3 or Better Stability
- Voltage Control Option, Industry Standard Lead Spacing
- Standard Frequencies: 10, 12, 12.8, 13, 14.4, 16.284, 32.768, 100.00 MHz

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, $V_c = 1/2 V_{cc}$
Frequency vs. Load	5E-8 Typ / $\pm 5\%$ 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
Input Voltage (Vcc)	A = +5VDC $\pm 5\%$; B = +3.3VDC $\pm 5\%$ (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
Rise/Fall Time (Tr/Tf)	5 ns Maximum
EFC Range	± 5 ppm, with control voltage $V_c = 0.5V$ to 4.5V
Linearity / Slope	$\pm 10\%$ 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)



OUTLINE DRAWING

