



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

FEATURES

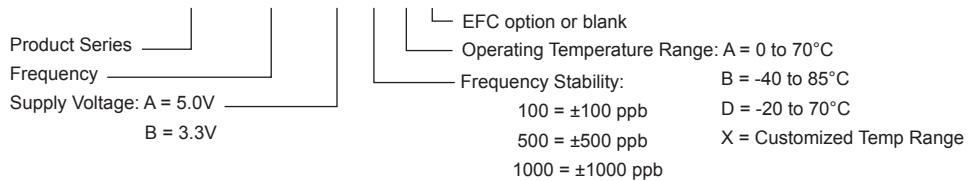
- Wide Frequency Range (1 MHz to 100 MHz), 15 pF HCMOS Output
- AT-cut Crystal, Stratum3 or Better Stability
- Voltage Control Option, Industry Standard Lead Spacing
- Standard Frequencies: 10, 12, 12.8, 13, 14.4, 16.284, 32.768, 100.00 MHz

SPECIFICATIONS

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|-------------------------------------|--|
| 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 |
| Input 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 |
| Rise/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)



OUTLINE DRAWING

