


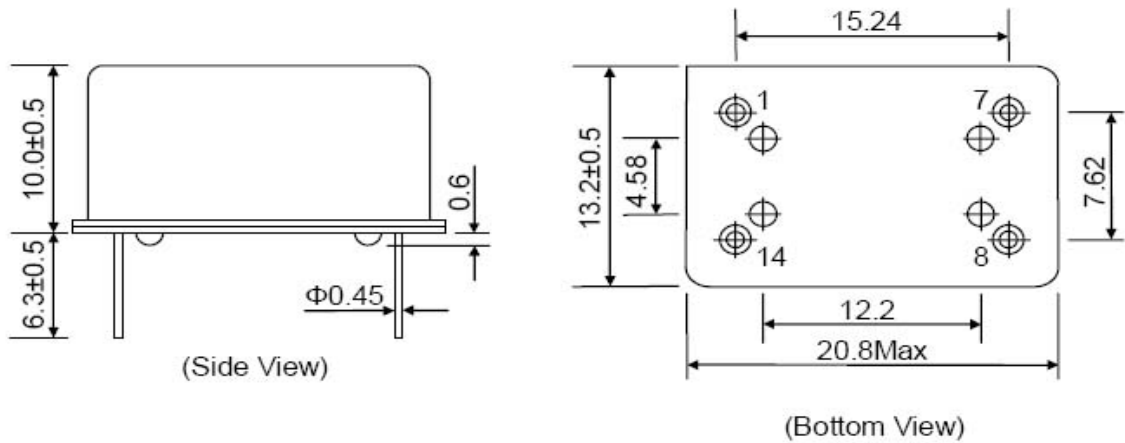
| | | | |
|---------------------------|--|---|---|
| Crystal Oscillator Series | Stability up to $\pm 0.1 \times 10^{-6}$ Low Aging Compact Package | SDH/SONET ATM WILL Measure Equipment |  |
| OC-14 | | | |

Electrical Specifications

| Parameter | | OC14 | | | |
|-------------------------------|-------------------|---|------------------------------|-----------------------|--------------|
| Frequency Range | Fo | 1.000 MHz~100.000 MHz | | | |
| Standard Frequency(MHz) | Fo | 4.096 | 5 | 8.192 | 10 16.384 20 |
| Frequency Accuracy | | $\pm 0.5\text{PPM}$ (center control voltage) | | | |
| Supply Voltage | VDD | B:+5.0VDC $\pm 10\%$ | | C:+12.0VDC $\pm 10\%$ | |
| Supply Consumption | Warming State | 2W Max | | | |
| | Steady State | 1W Max (at 25) | | | |
| Output Load | | A: TTL 15pF B: TTL 50pF | C: CMOS 15pF D: CMOS 50pF | G: Sine Wave | |
| Output Duty | | 45%~55% | | | — |
| Control Voltage Range | | $V \Rightarrow \pm 1 \times 10^{-6}$ (Voltage Adjust) | | | |
| Frequency Stability Vs | Temperature Range | $\pm 1 \times 10^{-7}$ (reference to frequency at 25 VDD $\pm 5\%$) | | | |
| | Power Supply | $\pm 5 \times 10^{-8}$ (VDD $\pm 5\%$) | | | |
| | Load | $\pm 2 \times 10^{-8}$ (5% change from 50) | | | |
| | Warm up Time | < 7min (to be within $\pm 10^{-8} \times F_o$, Fo Refers to Frequency after 1h operation) | | | |
| Rise Time/Fail Time | Tr/Tf | 10nS Max | | | — |
| Output Level | “0”Level VOL | 0.4V Max | 10%VDD | | > 0dBm//50 |
| | “1”Level TSTG | 2.4V Min | 90%VDD | | |
| Storage Temperature Range | TSTG | -40 ~+100 | | | |
| Aging (After 30 days ,at+25) | | A: $\pm 1 \times 10^{-6}$ /year / $\pm 5 \times 10^{-6}$ /10 year | | | |
| Phase Noise (at 10MHz) | | 10Hz | 100Hz | 1KHz | 10KHz |
| | | -100dBc/Hz | -120dBc/Hz | -135dBc/Hz | -145dBc/Hz |
| Slope and Linearity | | Positive / $\pm 10\%$ | | | |

| Temperature Range | Frequency Stability | | | |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | E: $\pm 1 \times 10^{-7}$ | F: $\pm 2 \times 10^{-7}$ | G: $\pm 3 \times 10^{-7}$ | H: $\pm 5 \times 10^{-7}$ |
| A:0 ~ +50 | | | | |
| B:-10 ~ +60 | | | | |
| C:-20 ~ +70 | | | | |
| E:-40 ~ +75 | | | | |

Dimensions (mm)



| PIN | FUNCTION |
|-----|-----------------|
| #1 | Control Voltage |
| #7 | GND |
| #8 | Output |
| #14 | +DC |

Ordering Information

| O | C | Type | Output Load | xx.xxxx | M | Supply Voltage | Stability Vs.Temp | Operating Temp | Control voltage range | option |
|---|---|-------|-------------|------------------|-----|----------------|-------------------|----------------|-----------------------|------------------|
| O: OCXO | | 14DIP | See table | Center frequency | M | B:5V | See table | See table | See table | F:Lead Free |
| C:control | | | | 10 to 100 MHz | MHz | C:12V | | | | T:T&P Blank:Bulk |
| Example:OC14DIPA10MBDAMF (OCXO,DIP20, TTL 15pF,10MHZ,B:5V,D: $\pm 5 \times 10^{-8}$, A:0 ~ +50 , M : $\Rightarrow \pm 1 \times 10^{-6}$,Lead free Bulk) | | | | | | | | | | |

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