

STP 2206 (STRATUM 3E) OCXO

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Description

- SC Cut Standard OCXO
- Stratum 3E compliant

Package Outline

- 36.0 x 26.5 x 19.0mm (Package 36)

Supply Voltage

- 5V ±5%

Standard Frequency

- 12.80MHz

Initial Tolerance @ 25°C

- $\leq \pm 5 \times 10^{-7}$

Input Current

- Warm up: $\leq 1200\text{mA}$
- @25°C: $\leq 350\text{mA}$

Warm Up Time @ 25°C

- $\leq \pm 1 \times 10^{-7}$ after 5 minutes

HCMOS Output Signal

- VoH: $\leq 4.0\text{V}$
- VoL: $\leq 0.4\text{V}$
- Duty Cycle @ 2.0V - 40/60%
- Rise and Fall Time 10% to 90% - 10ns @ 15pF output load

Frequency Stability Vs Supply Voltage change (±5%) and Load Change

- $\leq \pm 5 \times 10^{-9}$

Frequency Stability Vs Operating Temperature Range

- $\leq \pm 1 \times 10^{-8}$

Operating Temperature Range

- -20°C to 75°C

Phase Noise (Typical Figures)

- 10Hz: -100dBc/Hz
- 100Hz: -130dBc/Hz
- 1kHz: -140dBc/Hz

Environmental Specification (non-operating)

- Storage Temperature Range: -55 to 90°C
- Vibration: 10g for 10 to 500Hz
- Shock: 50g for 11ms - 1/2 Sine

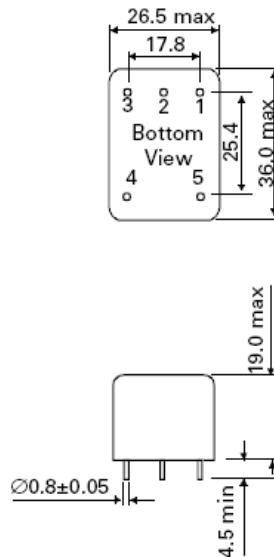
Ageing

- Per day (measured before shipment): $\leq \pm 1 \times 10^{-9}$
- After 30 days operation (extrapolation): $\leq \pm 1.5 \times 10^{-7}$ / year
- Over life-time (20 years - extrapolation): $\leq \pm 3 \times 10^{-6}$

Marking

- RAKON
- Model Number STP2206
- Frequency 12.8MHz
- Serial Number
- Date Code (YY/WW)

Outline in mm



| Pin | Connections |
|-----|-------------------------------|
| 1. | Input supply (+) |
| 2. | Output reference voltage |
| 3. | N/C |
| 4. | Mechanical GND and (-) supply |
| 5. | Output signal |

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