

OCO-SMBS

SMD OCXO
Sine wave

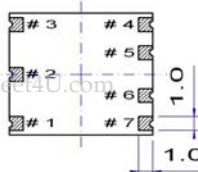
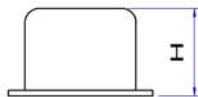
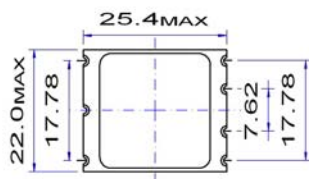
QuartzCom
the communications company



Features

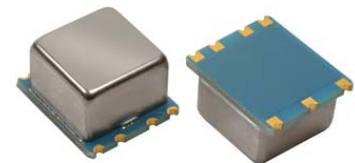
- Applications: GPS, CDMA, 3G, networking, instrumentation
- SMD packaged precision OCXO
- High frequency stability vs. temperature
- Supply voltage: 3.3 V or 5.0 V

| Parameter | Specification | |
|--|---|-----------------------------------|
| Frequency range | 10.0000 ~ 20.0000 MHz | |
| Standard frequencies | 10.000, 12.800, 13.000, 16.384 & 20.000 MHz | |
| Frequency stability vs. operating temperature range | $\leq \pm 1 \times 10^{-8}$ | over -40 ~ +70 °C |
| | $\leq \pm 5 \times 10^{-9}$ | over -20 ~ +70 °C |
| vs. supply voltage change | $\leq \pm 5 \times 10^{-10}$ | $\pm 5 \%$ |
| vs. load change | $\leq \pm 5 \times 10^{-10}$ | $\pm 5 \%$ |
| vs. aging after 30 days of operation | $\leq \pm 3 \times 10^{-8}$ | 1 st year |
| Short term stability | $< 5 \times 10^{-12}$ | Allan deviation per 1 s |
| Output waveform | sine wave | |
| Output level (rms) | > 400 mV | |
| Output load | 50 Ω | $\pm 5 \%$ |
| Supply voltage | +12 V | $\pm 5 \%$ |
| Steady-state current consumption @ +25 °C | < 270 mA | |
| Warm-up time | < 3 min | $< \pm 1 \times 10^{-7}$ @ +25 °C |
| Frequency pulling range | $> \pm 0.5 \times 10^{-7}$ | positive slope |
| Vcontrol (Vc) via external voltage | 0 ~ +5 V | |
| Vcontrol (Vc) via external potentiometer | 20 k Ω | |
| Reference voltage output (Vref) | +5.0 V | |
| Phase noise @ 10 MHz carrier frequency | < -100 dBc/Hz | @ 1 Hz |
| | < -130 dBc/Hz | @ 10 Hz |
| | < -145 dBc/Hz | @ 100 Hz |
| | < -150 dBc/Hz | @ 1 kHz |
| | < -150 dBc/Hz | @ 10 kHz |
| Operating temperature range | -20 ~ +70 °C or -40 ~ +70 °C | |
| Storage temperature range | -55 ~ +85 °C | |
| Case height (H) | 12.5 mm or 14.0 mm | |

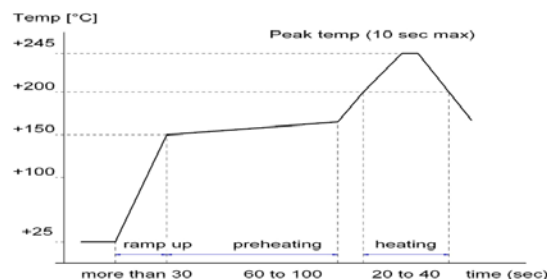


Pin function

- # 1 Vc
- # 2 Vref
- # 3 Vdc
- # 4 RF output
- # 5 not connected
- # 6 not connected
- # 7 GND



Example for IR reflow soldering temperature



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2002/95/EC RoHS compliant

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