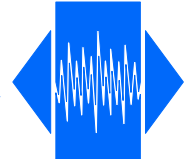


VXO-1S-PE-6p

SMD VCXO
LVPECL

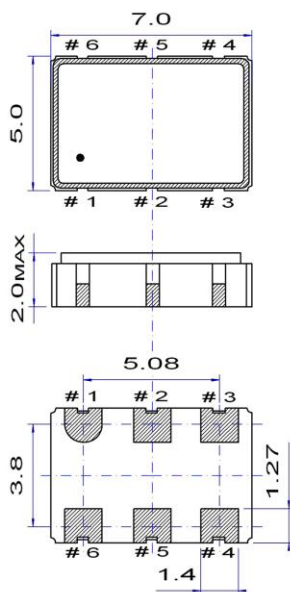
QuartzCom
the communications company



Features

- Applications: wireless communications, 10 Gigabit Ethernet, SDH, SONET, Fibre Channel, broadband access, DSL, GPON
- Output frequency up to 312.5 MHz
- Low jitter < 0.5 ps

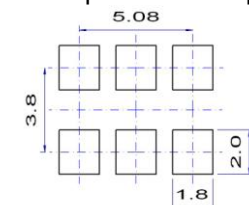
| Parameter | Specification | |
|--|--|---|
| | VXO-1S25PE-6p | VXO-1S3PE-6p |
| Frequency range | 19.44 ~ 312.5 MHz | |
| Standard frequencies | 19.44, 76.80, 77.76, 106.25, 120.00, 122.88, 125.00, 153.60, 155.52 156.25, 159.375, 161.1328, 200.00, 212.5 & 256.00 MHz | |
| Supply voltage | +2.5 V \pm 5 % | +3.3 V \pm 5 % |
| Supply current | 30 ~ 75 mA | |
| Frequency stability (all inclusive) (*) | < \pm 25 ppm < \pm 50 ppm | over -20 ~ +70 °C over -40 ~ +85 °C |
| Output signal | LVPECL | |
| Output voltage | $V_{OH} \geq 1.475$ V $V_{OL} \leq 1.095$ V | $V_{OH} \geq 2.275$ V $V_{OL} \leq 1.680$ V |
| Output load | 50 Ω | @ Vdc - 2.0 V |
| Symmetry | 45 ~ 55 % | @ 1/2 Vdc |
| Rise / Fall time | < 3 ns | |
| Frequency pulling range | \pm 50 ~ \pm 100 ppm | |
| Voltage control | +1.25 V \pm 1.25 V | +1.65 V \pm 1.35 V |
| Enable / Disable function | Pin #2 = high or open Pin #2 = low | Pin #4 & #5 \rightarrow (E) signal Pin #4 & #5 \rightarrow (D) no signal |
| Jitter (rms) | < 0.5 ps @ 12 kHz ~ 20 MHz from carrier frequency | |
| Operating temperature range | -20 ~ +70 °C -40 ~ +85 °C | commercial application industrial application |
| Packaging units | tape & reel | 500 or 1'000 pieces |
| (*) All inclusive frequency stability vs. temperature, tolerance, aging, supply & load variation | | |
| Customer specifications on request | | |



Pin function

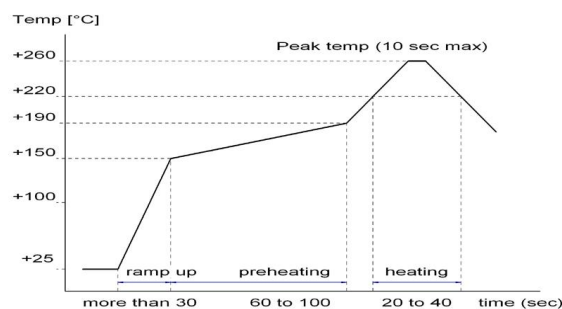
- # 1 Vc Voltage control
- # 2 E/D
- # 3 GND
- # 4 Output
- # 5 Complementary output
- # 6 Vdc

Example for solder pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

31 Mar. 10

QuartzCom AG
sales@quartzcom.com

QuartzCom Asia
sales-asia@quartzcom.com

QuartzCom USA
sales-usa@quartzcom.com

www.quartzcom.com