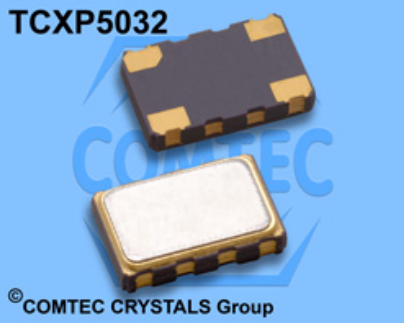


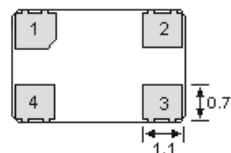
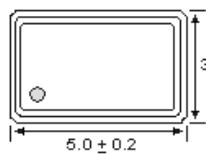
## TCXP5032



Programmable Crystal Oscillator  
TCXP-Oscillator SMD TCXP5032TB3.0 3.0V LVC MOS

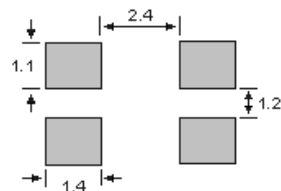
- Temperature Compensated Crystal Oscillator TCXO
- SMD in ceramic case (5.0 x 3.2 x 1.2) mm
- LVC MOS Square Wave Output; Wave form code is " T "
- Low Jitter, Peak-to-peak period jitter is 70 ps (typical)
- on Tape & Reel
- RoHS conform; Lead-free product

### Temperature Compensated Crystal Oscillator TCXO



Bottom View

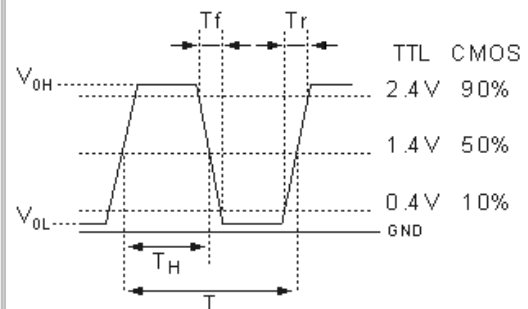
- 1 Ground for TCXO; Voltage Control for VCTCXO
- 2 Ground and Metal Lid
- 3 Output
- 4 Supply Voltage



Recommended Soldering Pattern



### CMOS/TTL Output Wave Form



## Specifications

Holder Type:	Temperature Compensated Crystal Oscillator TCXO TCXP5032TB3.0 3.0V (Voltage code is " 3.0 " ) LVC MOS
Input Voltage:	+ 3.0V <sub>dd</sub> ± 5%
Frequency Stability:	± 0.5ppm to ± 3.0ppm
Freq. Stability vs Temperature:	0° to 50°C (± 0.5ppm) to -40 to +85°C ( ± 1.0 to ± 3.0ppm)
Freq. Stability vs Aging:	± 1.0 ppm, first year at 25°C
Freq. Stability vs Voltage Change:	± 0.3 ppm, for a ± 5% input voltage change
Freq. Stability vs Load Change:	± 0.3 ppm, for a ± 10% load condition change
Current Consumption:	8.0 mA (25MHz at + 25°C); 20mA max(200MHz at + 25°C)
Output Load:	15pF
Output Logic Levels:	Logic High "1" : 90% V <sub>dd</sub> min. Logic Low "1" : 10% V <sub>dd</sub> min.
Output Symmetry (Duty Cycle):	40/60% normal, 45/55% tight at 50%
Rise/Fall Time CMOS:	10.0ns max. Measured between 20% and 80% V <sub>dd</sub>
Start Up Time:	5.0 ms (typ.), 10.0 ms (max.)
Phase Noise (133.333MHz) :	-76dBc/Hz at 10Hz , -102dBc/Hz at 100Hz, -114dBc/Hz at 1kHz , -110dBc/Hz at 10kHz, -100dBc/Hz at 10kHz
Storage Temperature:	-40+ 85°C or -55 to + 125°C (package dependent)
Reflow Condition:	260°C max. for 10 sec.

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