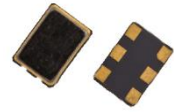


XCO392IV11-156.250



ELECTRICAL SPECIFICATIONS

| PARAMETER | SYMBOL | CONDITION | VALUE | | | UNIT |
|----------------------------|----------------------|---------------------------------|--|---------|------|------|
| | | | Min. | Typ. | Max. | |
| Nominal Frequencies | F ₀ | | | 156.250 | | MHz |
| Supply Voltage | V _{cc} | 25°C | | 2.5 | | V |
| Supply Current | I _s | 2.5V ±5% | | | 95 | mA |
| Total Frequency Stability | st | Over -40°C to +85°C | -25 | | +25 | ppm |
| Enable/Disable, PIN # 1 | e/d | Enable: High Level or Open | 2.3 | | | V |
| | | Disable: Low Level or GND | | | 0.2 | V |
| Start-Up Time | t _{start} | T _a =25°C | | | 10 | ms |
| Operating Temperature | T _a | | -40 | | +85 | °C |
| Storage Temperature | T _(stg) | Absolute max | -55 | | +125 | °C |
| Maximum Voltage | V _{cc(abs)} | Absolute max | | | 4.6 | V |
| Moisture Sensitivity Level | MSL | JEDEC J-STD-2 | 1 | | | |
| Termination Finish | | | 3.2X2.5mm ceramic package, Nickel Silver cover, Au plating contacts. | | | |
| ESD Sensitivity | HBM | Human body model JESD22-A114 | | | 3 | kV |
| RMS Phase Jitter | j _Σ | 12 kHz – 20 MHz Bandwidth | | 750 | 950 | fs |

XCO392IV11-156.250

OUTPUT CHARACTERISTICS

| | PARAMETER | SYMBOL | CONDITION | VALUE | | | UNIT |
|--------|--------------------------|------------------|--|-------|------|------|------|
| | | | | Min | Typ. | Max | |
| LVPECL | Output levels | VOH | Output termination 50Ω to V _{cc} -2.0V, 2.5V ±5% | 1.47 | | | V |
| | | VOL | | | | 0.9 | V |
| | Rise/fall time | Tr/Tf | 20% to 80% | | 0.5 | 1.0 | ns |
| | Differential Swing pk-pk | Vdiff | 50Ω to V _{cc} -2.0V Load | 800 | | 1600 | mV |
| | Single-ended Swing pk-pk | Ssw | | 400 | | 800 | mV |
| | Duty Cycle | D _{CY%} | - | 45 | 50 | 55 | % |
| | Output Load | O _{CL} | to V _{cc} -2.0V | | 50 | | Ω |

MECHANICAL DIMENSIONS AND PIN FUNCTIONING

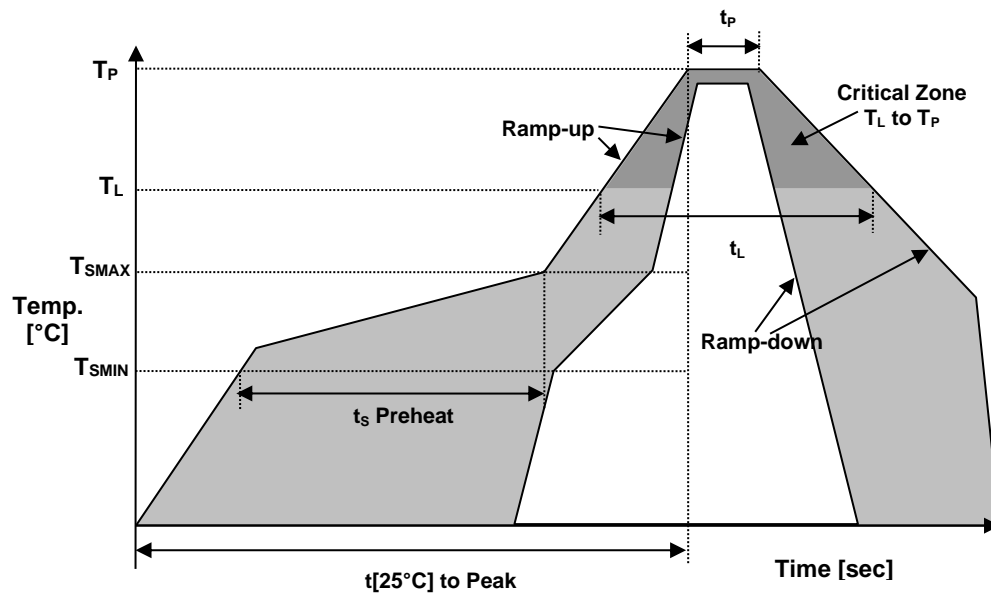
| PIN | SYMBOL | FUNCTION |
|-----|-----------------|----------------------------|
| 1 | OE | Enable/Disable |
| 2 | NC | Not Connected |
| 3 | GND | Case and Electrical Ground |
| 4 | Q | Output |
| 5 | /Q | Complementary output |
| 6 | V _{cc} | Supply Voltage |

XCO392IV11-156.250

■ **Marking:**

- XCO
- 156.250
- D/C

REFLOW PROFILE



| Recommended Solder Reflow Profile | | |
|--|-------------------------------|--------------|
| Temperature Min Preheat | T_{SMIN} | 150°C |
| Temperature Max Preheat | T_{SMAX} | 175°C |
| Time (T_{SMIN} to T_{SMAX}) | t_s | 60-180 sec. |
| Temperature | T_L | 217°C |
| Peak Temperature | T_P | 260°C |
| Ramp-up rate | R_{UP} | 3°C/sec max. |
| Ramp-down rate | R_{DOWN} | 6°C/sec max. |
| Time within 5°C of Peak Temperature | t_p | 10 sec max. |
| Time $t[25^\circ\text{C}]$ to Peak Temperature | $t[25^\circ\text{C}]$ to Peak | 480 sec. |
| Time | t_L | 60-150 sec. |

APPROVALS

Eng. approval, date: CP 05/19/2020

Created by, date: AR 05/19/2020

Revision: A