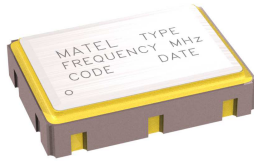
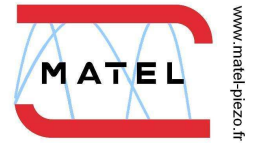


SMD Oscillator CXO 3.2 x 2.5 LVDS XP-23 & XP-43



| FEATURES |
|------------------------------------------------------------------------------|
| 10 to 220 MHz LVDS Phase jitter 200 fs typical Superior phase noise |
| APPLICATIONS |
| Datcomms |

Electrical Parameters

| Parameters | Conditions | XP-23 | XP-43 |
|------------------------------------|------------|------------------------------|-----------------|
| Frequency Range | | 10 to 220 MHz | 13.5 to 220 MHz |
| Power Supply Voltage | | 3.3 V \pm 5% | 2.5 V \pm 5% |
| Supply Current | | 27 mA max | |
| Output load LVDS | | 100 Ω between outputs | |
| Output Symmetry | At 1/2 VOD | 45/55% | |
| Rise Time /Fall times (20 to 80%) | | 0.4 ns Max | |
| Output Voltage | VOH | 1.4 V typ | |
| | VOL | 1.1V typ | |
| Differential Output | VOD | 350 mV typ | |
| Offset Voltage | VOS | 1.25 V typ | |
| Jitter RMS (12 KHz to 20 MHz) | | \leq 500 fs | |
| Start-up Time | | \leq 10 ms | |
| Storage Temperature Range | | -55°C ~ +150°C | |
| Phase Noise (typical) at 156.25MHz | | -50 dBc / Hz @ 10Hz | |
| | | -80 dBc / Hz @ 100Hz | |
| | | -115 dBc / Hz @ 1KHz | |
| | | -135dBc / Hz @ 10KHz | |
| | | -142 dBc / Hz @ 100kHz | |
| | | -147 dBc / Hz @ 1MHz | |
| | | -152 dBc / Hz @ 10MHz | |

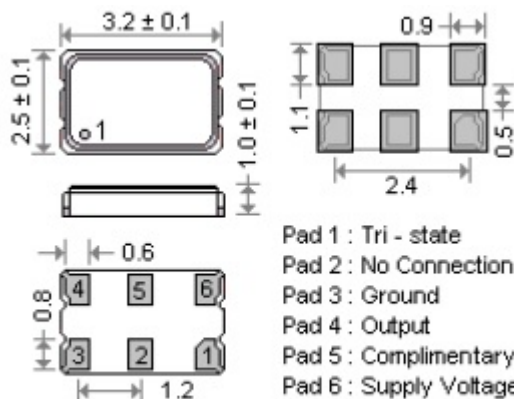
Ordering Code Stability

| Temperature Range | Code | Stability | Code | Internal Code | Internal Code | Option | Code |
|-------------------|------|---------------|------|---------------|---------------|--------------------|------|
| - 10 + 60°C | C | \pm 25 ppm | D | 0 | 0 | Tri-State on pad 2 | T |
| - 20 + 70°C | E | \pm 50 ppm | C | | | | |
| - 40 + 85°C | H | \pm 100 ppm | A | | | | |

*Includes: 25°C calibration, operating temperature range, input voltage and load change, ageing, shock and vibration

example: XP-23EC00 156.25MHz

Mechanical Dimensions (mm)



SMD CXO

| | | | | | | | |
|------|---------------|----------|----|---------|----|------|------------|
| TYPE | XP-23 & XP-43 | REVISION | 02 | CHECKED | PB | DATE | 08/11/2020 |
|------|---------------|----------|----|---------|----|------|------------|

All specifications are subject to change without notice