

Customer Part:

Description

- Zarlink approved TCXO for GR-1244 & GR-253 Stratum 3 applications.
- Model E3179LF
- Model Issue number 7

Frequency Parameters

- Frequency 20.0MHz
- Frequency Stability $\pm 0.32\text{ppm}$
- Operating Temperature Range -5.00 to 80.00°C
- Ageing $\pm 4.6\text{ppm}$ max after 20 years
- Holdover Stability $[\pm(F_{\text{max}} - F_{\text{min}})/2F_0]$:
Temperature, -5 to 80°C , inclusive of Supply Voltage: $3.3\text{V} \pm 5\%$ and Ageing, 24 hours: $< \pm 0.32\text{ppm}$
- Free-Run Accuracy, incl.
Calibration @ 25°C , Temperature -5 to 80°C , Supply Voltage $3.3\text{V} \pm 5\%$, Load $15\text{pF} \pm 5\%$, Reflow Soldering and Ageing 20 years: $< \pm 4.6\text{ppm}$ ref. to Follow

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 6.000mA

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 9.0ns max
- Duty Cycle 45/55%

Output Control

- Tri-State Operation:
Logic '1' ($\geq 60\%V_S$) to pad 8 enables output
Logic '0' ($\leq 20\%V_S$) to pad 8 disables output
When at logic '0' the output stage is disabled for all output options, but the oscillator and compensation circuit are still active (Current consumption $< 1\text{mA}$)

Output Levels

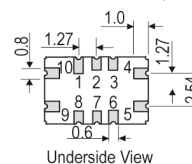
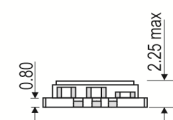
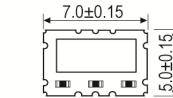
- VOL: $\leq 10\% V_S$
- VOH: $\geq 90\% V_S$

Noise Parameters

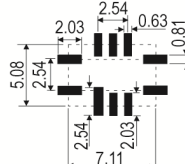
- Phase Noise (max):
 -85dBc/Hz @ 10Hz
 -110dBc/Hz @ 100Hz
 -120dBc/Hz @ 1kHz
 -135dBc/Hz @ 10kHz

Environmental Parameters

- Storage Temperature: -55 to 125°C
- Shock: IEC 60068-2-27, Test Ea: 980m/s^2 acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz - 60Hz 1.5mm displacement, 60 - 2000Hz at 98.1m/s^2 , 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3


Outline (mm)

Pad Connections

1. Do not connect
2. N/C
3. Do not connect
4. GND
5. Output
- 6 & 7. N/C
8. Tri-state Control *
9. +VS
10. Do not connect
- * Leave unconnected if not required

Solder Pad Layout

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Customer Part:**Manufacturing Details**

- Resistance to Soldering Heat: 260°C, 60sec max above 220°C
- RoHS Terminations NiCoAu
- RoHS Reflow Temp 260degC 30s

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 10
- *Alternative packing option available*

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