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Description

 SEMTECH approved surface mount TCXO designed for use in SONET appliacations.

Frequency Parameters

FrequencyFrequency Stability±20.00ppm

Holdover Stability [±(Fmax-Fmin)/2Fo]:
 Temperature, -40 to 85°C, inclusive of Supply Voltage: 3.3V ±5% and Ageing, 24 hours: <±4.6ppm

Free-Run Accuracy, incl.
Calibration @25°C, Temperature –40 to 85°C, Supply Voltage 3.3V ±5%, Load 15pF ±5%, Reflow Soldering and Ageing 20 years: <±20ppm ref. to nominal frequency.

Electrical Parameters

■ Supply Voltage 3.3V ±5%

Operating Temperature Ranges

-40 to 85°C

Output Details

Output Compatability HCMOSDrive Capability 15pF max

Output Control

Tri-State Operation:

Logic '1' (≥60%VS) to pad 8 enables output Logic '0' (≤20%VS) 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 <1mA)

Output Levels

VOL: ≤10% Vs VOH: ≥90% Vs

Noise Parameters

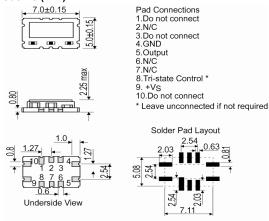
- Phase Noise (max):
 - -90dBc/Hz @ 10Hz
 - -115dBc/Hz @ 100Hz
 - -127dBc/Hz @ 1kHz
 - -137dBc/Hz @ 10kHz
 - -143dBc/Hz @ 100kHz

Environmental Parameters

- Storage Temperature: -55 to 125°C
- Shock: IEC 60068-2-27, Test Ea: 980m/s2 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/s2, 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3
- Resistance to Soldering Heat: 260°C/10sec exposure



Outline (mm)



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TCXO Specification **E2799**

Ordering Information

Frequency* Model*

Example: 12.8MHz E2799

Compliance

RoHS Status (2011/65/EU)
 REACh Status
 MSL Rating (JDEC-STD-033):

Packaging Details

Pack Style: Bulk Loose in bulk pack

Pack Size: 10

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000

Electrical Specification - maximum limiting values 3.30V ±5%

Frequency	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
	°C	ppm	mA	ns	%
12.8MHz	-40 to 85	±20.00	4	9	45/55%

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