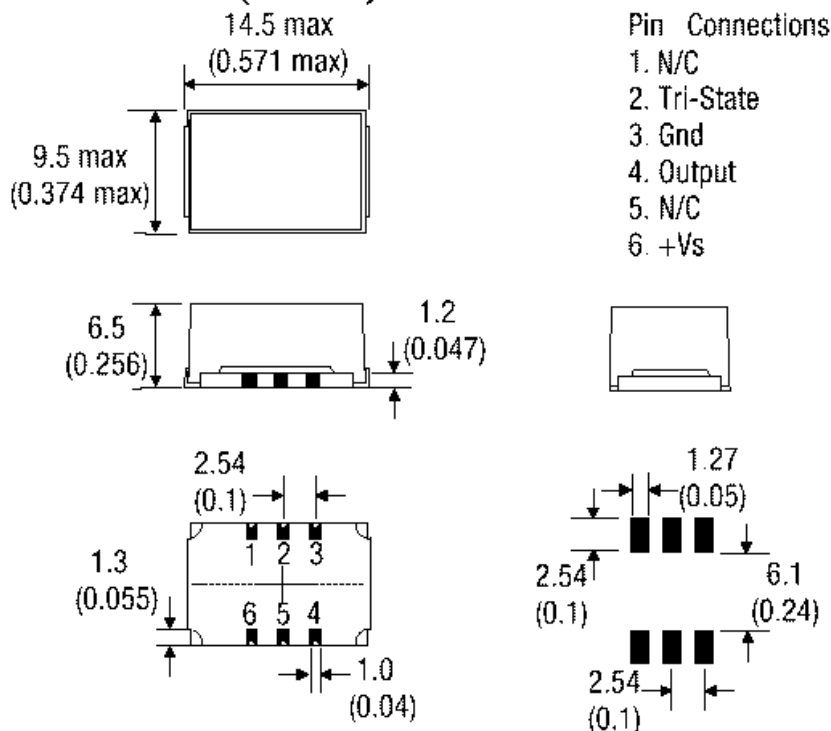


Oscillator Specification: N2636

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Outline in mm (inches)



Marking:

Marking shall include as a minimum:

- 1) Manufacturer (CMAC)
- 2) Device number (N2636)
- 3) Frequency (MHz)
- 4) Date Code (YYWW)
- 5) Antistatic symbol (Δ , denotes pin 1)

Electrical:

Frequency (f_0)	12.8 MHz
Supply Voltage, V_s	3.3 V \pm 5%
Input Current	\leq 15.0 mA
Output:	
Type	HCMOS
Load	15 pF
V_{ol}	\leq 10% V_s
V_{oh}	\geq 90% V_s
Duty Cycle	40 to 60%

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HOLDOVER STABILITY¹⁾ $\leq \pm 4.6$ ppm
 incl. Temperature, -40°C to 85°C
 Supply Voltage, 3.3V \pm 5% and
 Ageing 24 hours ($\leq \pm 0.5$ ppm).

FREE-RUN ACCURACY¹⁾ $\leq \pm 20$ ppm ref. f_o
 incl. Calibration @ 25 °C,
 Temperature, -40°C to 85°C,
 Supply Voltage, 3.3V \pm 5%,
 Load, 15pF \pm 10%
 Reflow soldering and
 Ageing, 20 years

Note 1) FREE-RUN ACCURACY AND HOLDOVER STABILITY ARE COMPLIANT WITH THE **SONET**
MINIMUM CLOCK SPECIFICATION ACCORDING TO BELLCORE STANDARD GR-253.

Tri-state Control	Pin 2 > 70% Vs (logic 1) or left open	Output Active
	Pin 2 < 20% Vs (logic 0)	Output Disabled (tri-stated)

Environmental:

Storage temperature range: -55 to 90°C

Vibration	IEC 68-2-6 Test Fc Procedure B4, 10 - 58 Hz 1.5mm pk-pk displacement, 58 - 500 Hz at 100 ms ⁻² , 30 minutes in each of three mutually perpendicular planes at 1 octave per minute.
Shock	IEC 68-2-27 Test Ea, 1000ms ⁻² acceleration for 6ms duration, half sine, 3 shocks in each direction along 3 mutually perpendicular axes.
SMD	Infra-red (class C, test category 1 as defined in classification BS CECC 0802; 1994). Profile in accordance with figure 3. Testing to be performed in accordance with BS CECC 00802, IEC 68-2-20 and IEC 68-2-58.
Sealing	Non hermetic package
Marking	Label, resistant to all common solvents.

"Samples supplied according to this specification are supplied from our development or pre-production programme and as such are not qualification approved products. No condition warranty or representation regarding quality, suitability, performance, life or continuation of supply is given or implied and Guarantee in clause 6a of our standard conditions is not applicable. The right is reserved to change the design or specification or cease supply without notice." C-MAC QUARTZ CRYSTALS LTD