

## Model Name NW36M25LA

Frequency Controlled Crystal Oscillator (FCXO)  
Advanced Stratum3 Module

### Main Application

SONET, SDH, FTTH, Communications equipment

### Features

- Four inputs, Stratum 3 solution for the Synchronous Timing Source in SONET/SDH network elements.
- Accepts 4 reference inputs in 9 steps from 8 kHz to 77.76 MHz (See specification below)
- Compliant with Telecordia GR1244CORE, GR253 and ITU-T G.812 / G.813.
- Hit-less reference switching.
- Frequency ramp control during reference switching.
- Supports Master / Slave operation
- Three output signals: one selectable (See specification below) up to 77.76 MHz, one fixed at 8 kHz and 1.544 MHz or 2.048 MHz BITS output.



\* Module markings may be changed without notice.

**RoHS Compliant**  
Directive 2002/95/EC

### Specifications

Item	Model	NW36M25LA
Supply Voltage (V <sub>CC</sub> )		+3.3 V DC ±5%
Current Consumption		150 mA typ
Operating Temp. Range		0 to +70°C
Input Levels		4-CMOS
Input Reference Frequency		8 kHz, 1.544 MHz, 2.048 MHz, 12.96 MHz, 19.44 MHz, 25.92 MHz, 38.88 MHz, 51.84 MHz or 77.76 MHz
Output Levels		Three CMOS outputs
Output Frequency 1		OUTPUT 1: 12.96 MHz, 19.44 MHz, 25.92 MHz, 38.88 MHz, 51.84 MHz or 77.76 MHz
Output Frequency 2,3		M/S_OUT: 8 kHz, BITS_CLK: 1.544 MHz or 2.048 MHz
Free-run accuracy		±4.6×10 <sup>-6</sup> max.
Holdover accuracy		±0.37×10 <sup>-6</sup> max.
PLL bandwidth (user programmable)		0.025 Hz to 1.6 Hz

### List of Ordering Codes

Output frequency (MHz)	Ordering Code
OUTPUT 1: One selectable up to 77.76 MHz	NW36M25LA-[ ]-NSA3437A

[ ]: OUTPUT1 frequency to order.  
For example, in 19.44 MHz case,  
NW36M25LA-19.44M-NSA3437A

### Dimensions

