

Frequency Timing and Translation Modules **NEW**



Model Name NW50M50LA/B

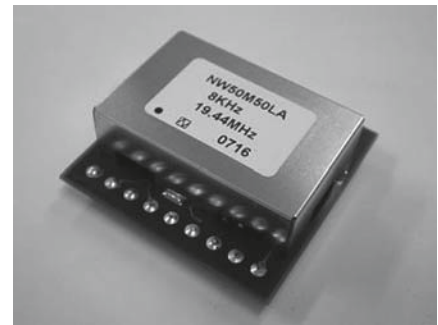
Frequency Controlled Crystal Oscillator (FCXO) Stratum3 Module

Main Application

SONET, SDH, FTTH, Communications equipment

Features

- Two reference input frequencies in 9 steps from 8 kHz to 77.76 MHz.
- Compliant with Telecordia GR1244CORE, GR253.
- Hit-less reference switching.
- Frequency ramp control during reference switching.
- Simple hardware control for operational modes (Freerun, Locked to Ref 1 or 2 and Holdover)
- Two output signals: one fixed at 8 kHz, one selectable (see specifications) up to 77.76 MHz.



* Module markings may be changed without notice.

RoHS Compliant
Directive 2002/95/EC

Specifications

Item	Model	NW50M50LA	NW50M50LB
Supply Voltage (V _{CC})			+5.0 V DC ±5%
Current Consumption		TCXO version 125 mA typ	OCXO version 525 mA typ turn on and 250 mA Steady state
Operating Temp. Range			0 to +70°C
Input Levels			2-CMOS
Input Reference Frequency (HMz)		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		Two CMOS outputs	
Output Frequencies (MHz)		OPT Sync Outputs: 12.96 MHz, 19.44 MHz, 25.92 MHz, 38.88 MHz, 51.84 MHz or 77.76 MHz	
Free-run accuracy		±4.6×10 ⁻⁶ max.	
PLL bandwidth		0.1 Hz	

List of Ordering Codes

Output frequency (MHz)	Ordering Code
OTP Sync Output: One selectable up to 77.76 MHz	NW50M50LA-[]-NSA3438A
	NW50M50LB-[]-NSA3438B

[]: OTP Sync Output to order.

For example, in 19.44 MHz case, NW50M50LA-19.44M-NSA3438A

Control Functions

CNTL B	CNTL A	Mode of operation
0	0	FREE-RUN
0	1	Lock to REF 1
1	0	Lock to REF 2
1	1	Holdover

Dimensions

