Frequency Timing and Translation Modules NEW

NDK Crystal Bridge to the Future

Model Name NW34M25WA

Frequency Controlled Crystal Oscillator (FCXO)
Clock Generator Modules

■ Main Application

SONET, SDH, FTTH, Communications equipment

■ Features

- Dual reference inputs, LVPECL and CMOS outputs
- Simple hardware control for operational mode
- Automatic Free-run upon loss of input reference
- Lock acquisition time < 1 second



* Module markings may be changed without notice.

RoHS Compliant
Directive 2002/95/EC

■ Specifications

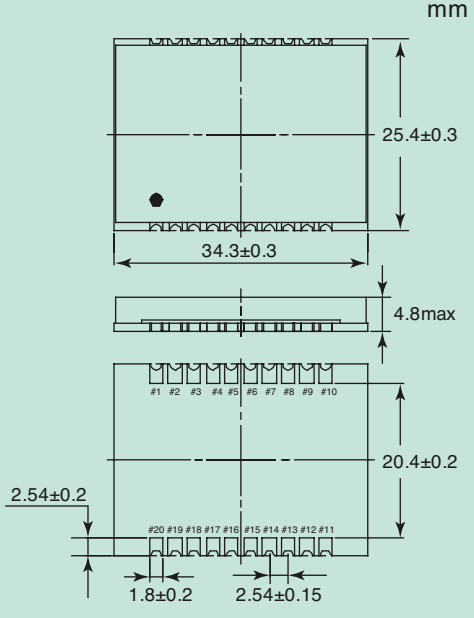
Item \ Model	NW34M25WA
Supply Voltage (V_{CC})	+3.3 V DC ±5%
Current Consumption	200 mA typ
Operating Temp. Range	0 to +70°C
Input Level	2-CMOS
Input Reference Frequency	19.44 MHz*
Output Levels	2(3) LVPECL and 1 CMOS
Output Frequencies (MHz)	77.76 (LVPECL1, CMOS) and 155.52 (LVPECL0)*
Free-run accuracy (at 25°C)	$\pm 20\times10^{-6}$ max.
Capture / pull-in range	$\pm 25\times10^{-6}$ min.

(*other frequencies are available)

■ List of Ordering Codes

Input reference frequency (MHz)	Output frequencies (MHz)				Ordering Code
	LVPECL 0	LVPECL 1	LVPECL 2	CMOS	
19.44	155.52	77.76	High-Z	77.76	NW34M25WA-155.52M-NSA3436A

■ Dimensions



PAD No.	Connection
#1	Alarm Output
#2	Ref A Input
#3	DNC
#4	Ref B Input
#5	OPT (LVPECL 2+)
#6	OPT (LVPECL 2–)
#7	VCC
#8	GND
#9	LVPECL 1+
#10	LVPECL 1–
#11	LVPECL 0+
#12	LVPECL 0–
#13	GND
#14	VCC
#15	CMOS Output
#16	DNC
#17	DNC
#18	DNC
#19	Control 1
#20	Control 2

DNC : Do not connect

■ Control Functions

Control 1	Control 2	Mode of operation
0	0	Lock to Ref A
0	1	Lock to Ref B
1	0	Forced Free-run
1	1	Outputs are Tri-stated