

Crystal Oscillator

Model Name NV13M08Y Voltage-Controlled Crystal Oscillator (VCXO) NV13M08Y Series

Main Application

For SONET-, SDH-, and GbEthernet-related equipment

Features

- CMOS output: 2 to 100 MHz; PECL output: 70 to 185 MHz.
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.

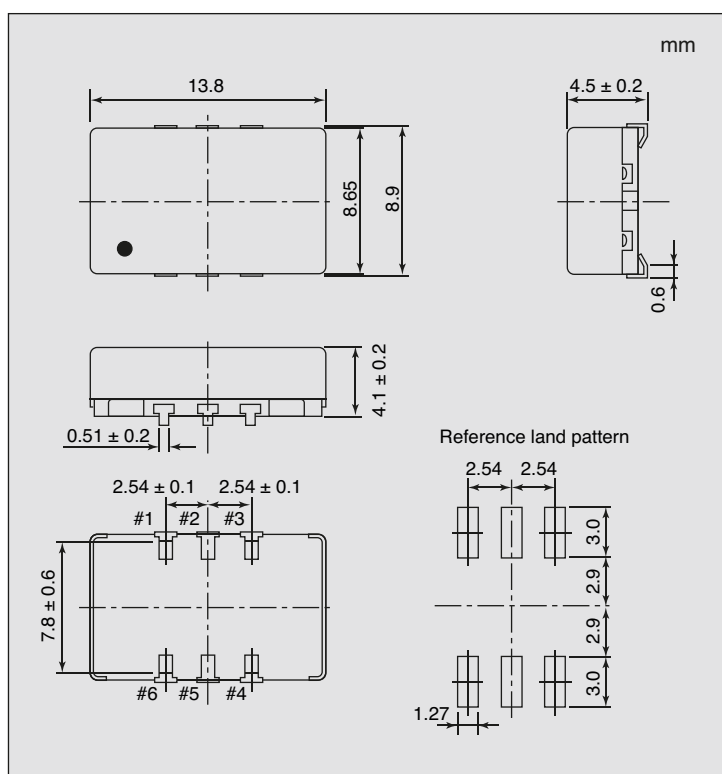


RoHS Compliant
Directive 2002/95/EC

Specifications

Item	Model	NV13M08YD	NV13M08YG	NV13M08YE	NV13M08YH	NV13M08YF	NV13M08YJ
Nominal frequency range (MHz)		2 to 100				70 to 185	
Power supply voltage [VCC] (V)		+5 ± 5 %			+3.3 ± 5 %		
Current consumption (mA)		Max. 40		Max. 30		Max. 100	
Output level		C-MOS level				PECL level (Complementary)	
Duty cycle (%)		45 to 55 (1/2 VCC)				45 to 55 (VCC - 1.3 V)	
Load		15 pF				50 Ω (VCC - 2.0 V)	
Operating temperature range (°C)		-40 to +85					
Frequency stability		Max. ±50 × 10 ⁻⁶					
Frequency control characteristic		Min. ±100 × 10 ⁻⁶ / +2.5 ± 2.0 V		Min. ±100 × 10 ⁻⁶ / +1.65 ± 1.5 V		Min. ±100 × 10 ⁻⁶ / +1.65 ± 1.5 V	
Control polarity		Positive					
Standby function or E/D function		None	Available	None	Available	None	Available

Dimensions



List of Ordering Codes

Model Name and Classification	Frequency (MHz)	Ordering Code
NV13M08YD	2 to 100	NV13M08YD-[] JM-NSA3323D
NV13M08YG	2 to 100	NV13M08YG-[] JM-NSA3323G
NV13M08YE	2 to 100	NV13M08YE-[] JM-NSA3323E
NV13M08YH	2 to 100	NV13M08YH-[] JM-NSA3323H
NV13M08YF	70 to 185	NV13M08YF-[] JM-NSA3323F
NV13M08YJ	70 to 185	NV13M08YJ-[] JM-NSA3323J

Specify a frequency in the square brackets.

Specify the frequency in up to seven digits (the decimal point is not included) and omit zeros after the decimal point.

PAD No.	Connection	
	(C-MOS)	(PECL)
#1	VCONT	VCONT
#2	NC or STAND-BY	NC or E/D
#3	GND	GND
#4	OUTPUT	OUTPUT
#5	NC	OUTPUT
#6	VCC	VCC