

TEMPERATURE-COMPENSATED CRYSTAL OSCILLATOR

TXO83, VTX83

Applications

- Cellular / PHS / GPS / Communication Equipment

Features

- Dimensions (5.0×3.2×1.05)
- Seam sealed
- Low phase noise / Low power consumption
- High stability ±2.5ppm / -30°C ~ +75°C
- Clipped sine output (DC coupled)

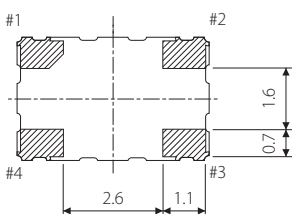
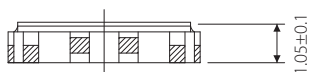
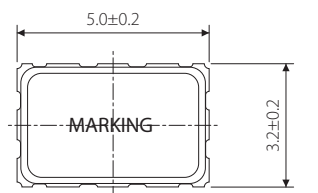
Specifications



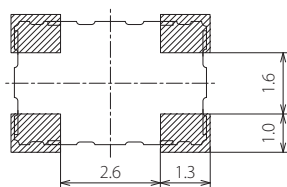
Model	TXO83	VTX83	
Frequency range	6.000~45.000 MHz		
Nominal frequency (MHz)	8, 10, 12, 12.8, 13, 14.4, 16.368, 19.2, 19.8, 20, 24.5535, 26, 40		
Frequency stability	Tolerance at 25°C	±2.0 × 10 ⁻⁶ (Sixty minutes after reflow)	
	Temperature (Ref.to+25°C)	±2.5 × 10 ⁻⁶ / -30~+75°C	
	Supply voltage change	±0.2 × 10 ⁻⁶ / Vdd ± 5%	
	Load change	±0.2 × 10 ⁻⁶ / ZL ± 10%	
Aging (at 25°C)	±1.0 × 10 ⁻⁶ / First year		
Storage temperature range	-40~+85°C		
Power supply voltage (Vcc)	+2.8V, +3.0V, +3.3V, +5.0V DC ±5%		
Current consumption	1.5mA max. (~20MHz), 2.0mA max. (~32MHz), 2.5mA max. (~45MHz)		
Output	Load (ZL)	10kΩ//10pF	
	Voltage	0.8V p-p min.	
	Waveform	Clipped Sine Wave (DC-coupled output)	
External controlfunction	Frequency tuning range	—	±8.0 × 10 ⁻⁶ min. (Positive)
	External control voltage	—	+1.5V ± 1.0V DC
	Input impedance (Zvin)	—	500kΩ min. (650kΩ typ.)
Phase noise	-135dBc typ. at 1kHz offset		

Package quantity: 1,000pcs max./Reel.

Outline and Dimensions [unit:mm]



Example of a Terminal Land Pattern



Terminal	Connection	
	TCXO	VC-TCXO
#1	GND	Vcont
#2	GND	
#3	OUTPUT	
#4	Vdd	