

# HCMOS TCXO

## TCXO-3225B



### Applications

- Cellular and Network Equipment

### Features

- HCMOS output with Tri-state function
- Ceramic package, Dimensions (3.2 × 2.5 × 1.0)
- High stability ±2.5ppm / -30°C ~ +75°C
- Low current consumption
- Low phase noise, Low jitter



### Electrical Specifications

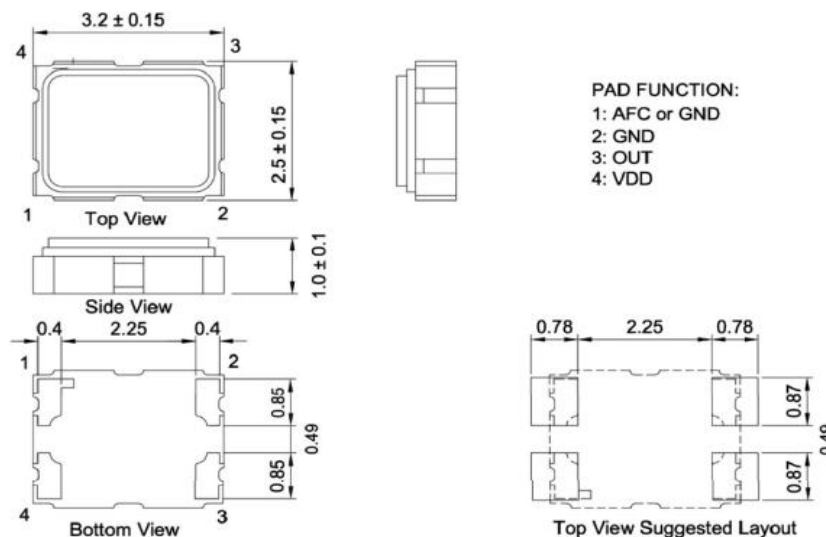
Item / Type		
Frequency range		2.500~55.000 MHz
Nominal frequency (MHz)		5, 10, 12, 16, 20, 24, 32, 40, 44
Storage temperature range		-40~ +125 °C
Operating temperature range		-30~ +75 °C
Frequency stability	Tolerance at 25°C	±2.0 × 10 <sup>-6</sup> (Sixty minutes after reflow)
	Temperature (+25°C basis)	±2.5 × 10 <sup>-6</sup> / -30~+75°C
	Supply voltage change	±0.2 × 10 <sup>-6</sup> / V <sub>DD</sub> ± 5%
	Load change	±0.2 × 10 <sup>-6</sup> / ZL ± 10%
Aging		±1.0 × 10 <sup>-6</sup> / year at +25°C
Power supply voltage (V <sub>DD</sub> )		+2.5V, +2.8V, +3.3V DC ± 10%
Current consumption		*note / 10uA max (Standby)
Output level		C-MOS
Load		15pF
Output voltage level		V <sub>OL</sub> :10%V <sub>DD</sub> max. / V <sub>OH</sub> :90%V <sub>DD</sub> min.
Rise & Fall time		5ns max. / 10%V <sub>DD</sub> - 90%V <sub>DD</sub>
Duty cycle		45% ~ 55% at 1/2V <sub>DD</sub>
Phase Noise / Jitter		-145dBc/Hz Typ. at 10kHz offset / 1σ 3ps typ.
Tri-state Function		#1: Floating. or "H" → Output enable / #1:"L" → Output disable (Hi-Z)

\*Reference / I<sub>DD</sub> Spec [mA max.]

Frequency	4~10MHz	~20MHz	~30MHz	~40MHz	~54MHz
2.5V	3.1	3.7	4.2	4.6	5.5
2.8V	3.4	4.1	4.7	5.2	6.0
3.3V	4.0	4.8	5.5	6.0	7.0

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

### Dimensions



Units: mm