

HCMOS TCXO

TCXO-2520B



Applications

- Cellular and Network Equipment

Features

- HCMOS output with Tri-state function
- Ceramic package, Dimensions (2.5 × 2.0 × 0.9)
- High stability ± 2.5ppm / -30°C ~ +75°C
- Low current consumption
- Low phase noise, Low jitter



Electrical Specifications

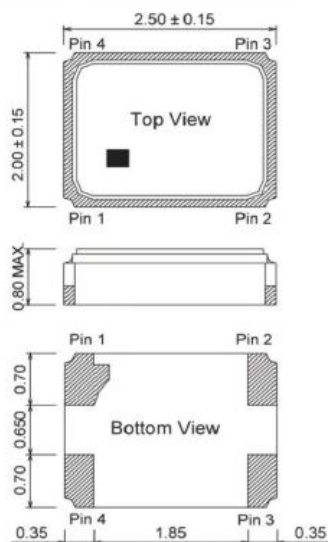
Item / Type		
Frequency range		3.200~55.000 MHz
Nominal frequency (MHz)		5, 10, 12, 16, 20, 24, 32, 40, 44
Storage temperature range		-40~ +125 °C
Operating temperature range		-30~ +75 °C
Frequency stability	Tolerance at 25°C	± 2.0 × 10 ⁻⁶ (Sixty minutes after reflow)
	Temperature (+25°C basis)	± 2.5 × 10 ⁻⁶ / -30~+75°C
	Supply voltage change	± 0.2 × 10 ⁻⁶ / V _{DD} ± 5%
	Load change	± 0.2 × 10 ⁻⁶ / ZL ± 10%
Aging		± 1.0 × 10 ⁻⁶ / year at +25°C
Power supply voltage (V _{DD})		+2.5V, +2.8V, +3.3V DC ± 10%
Current consumption		*note / 10uA max (Standby)
Output level		C-MOS
Load		15pF
Output voltage level		V _{OL} :10%V _{DD} max. / V _{OH} :90%V _{DD} min.
Rise & Fall time		5ns max. / 10%V _{DD} - 90%V _{DD}
Duty cycle		45% ~ 55% at 1/2V _{DD}
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_{DD} 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

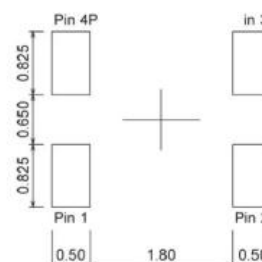
Package quantity: 1,000pcs max./Reel.

Dimensions



Pin Connection

Name	Function
Pin 1	AFC
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VCC



Units: mm