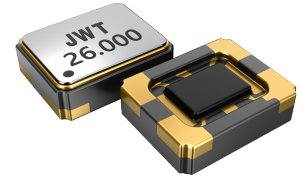




2.0x1.6mm SMD Crystal-TCXO

WN Series

Temperature Compensate X'tal (crystal) Oscillator



Product Features

1. Ultra-small size: $2.0 \times 1.6 \times 0.8$ mm
2. H Type package
3. High precision and stability

Applications

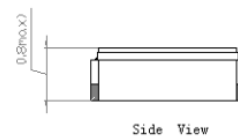
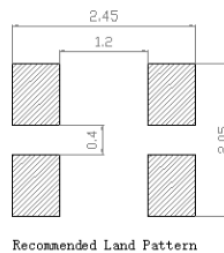
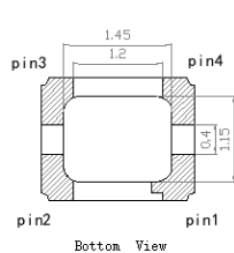
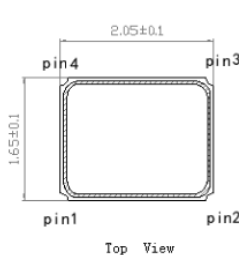
1. GNSS
2. Mobile communication
3. Cellular

Specifications

Model	WN2016		
Nominal frequency range	10.000~54.000MHz		
Supply voltage	1.68V~3.63V		
Oscillation mode	Fundamental (AT-cut)		
Frequency tolerance at $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$	$\pm 1.0\text{ppm}, \pm 1.5\text{ppm}$, Or specify (After 2 times reflow)		
Operating temperature range	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	$-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$	$-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
Frequency vs. Temperature (Ref.to 25°C)	$\pm 0.5\text{ppm}$	$\pm 5.0\text{ppm}$	$\pm 5.0\text{ppm}$
Frequency vs. Supply voltage ($\pm 5\%$)	$\pm 0.1\text{ppm}$		
Frequency vs. Load ($\pm 10\%$)	$\pm 0.1\text{ppm}$		
Duty cycle	40~60%		
Current consumption	2.0mA Max		
Output level	0.8Vp-p MIN		
Standard output Load	10K Ω //10pF $\pm 10\%$ /15pF		
Output waveform	Clipped sine wave/CMOS/LVCMOS		
Start-up time (More than 90% of final)	2.0ms Max		
Phase noise (Relative to f0 level offset 1KHz)	-138 dBc/Hz		
Storage temperature range	$-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$		
Aging at first year	$\pm 1.0\text{ppm}$		

Notes: The above parameters are for normal demands, If you have any different demands, Please contact us.

Dimensions (Unit: mm)



Pin	Function
#1	N/C
#2	GND
#3	OUTPUT
#4	VCC