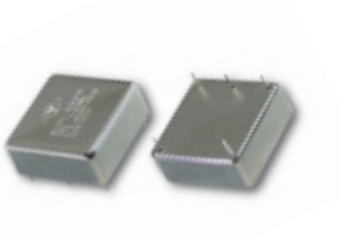
NB Type Oven Controlled Crystal Oscillator

RoHS Compliant Optional

FEATURE

1. Typical 50.8 x 50.8 x 26.2 mm.
2. SC-Cut Crystal
3. Stratum 3E Performance.
4. High stability ; Low Phase Noise.
5. Sine Wave or CMOS output ; Fast Warm-up.



ORDERING INFORMATION

N OCXO	B Package (mm)	A Supply Voltage(V)	K Pulling Range (ppm)	B Freq. Stability (ppb)	D Temp. Range (°C)	W Output Logic and Symmetry		— Dash	N Pin Out	L Lead Free	— Dash	? Freq.(MHz)
	L :50.8 W:50.8 H :26.2	A:12.0	K: ±0.2 H: ±0.4	R: ± 2 A: ± 5 B: ±10 C: ±20 E: ±30	B: 0~+50 E: 0~+70 D:-30~+70	Symmetry / Output	50±5%		N:Normal Please Refer to "OUTLINE DRAWING"	F:RoHS Compliant L:Not RoHS Compliant		xx.xxxxxx
						CMOS 15pF	J					
						Sine Wave	W					

Ordering Example: NBAKBDW-NL-5.000000 MHz

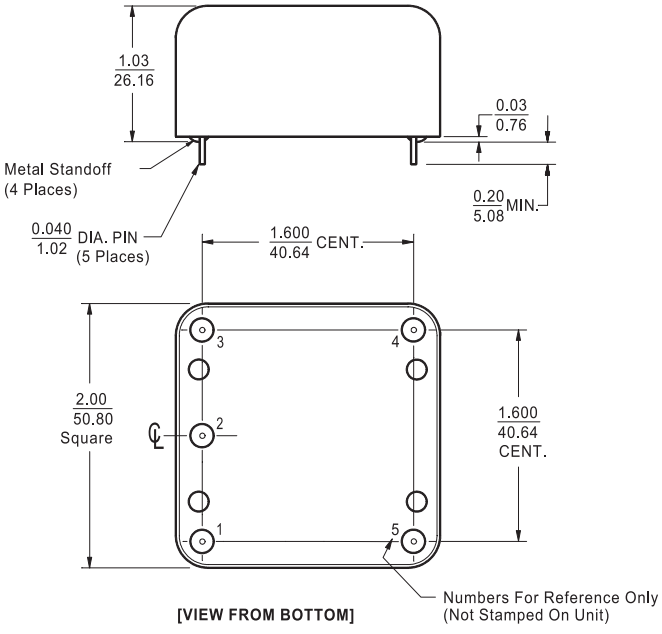
B-TYPE; VDD: 12V; Pulling Range: ±0.2ppm; Freq. Stability: ±10ppb; Temp. Range: -30°C to +70°C; Sine Wave, Pin Out: Normal; Not RoHS Compliant; Freq. 5.000000MHz.

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb		R: ±2	A: ±5
B	0 to +50	○	○
E	0 to +70	△	○
D	-30 to +70	X	○

○:Standard △:Available (case by case) ×:Not available

OUTLINE DRAWING



UNIT: Inch / mm

Pin	Pin Out
1	VCO INPUT
2	REFERENCE VOLTAGE
3	R.F. OUTPUT
4	0 VOLTS & CASE
5	+VDC

MARK	
MODEL:	BAKBDW
Freq.:	5.000MHz
S/N :	0000-0000
DATE:	0528

*Contact Sales@taitien.com.tw for special request.

ELECTRICAL SPECIFICATION

	Min.	Nominal	Max.	Note	Unit
Output					
Frequency		5.00			MHz
Wave Form		Sine Wave			
Level	6.0	8.0	10.0		dBm
Load		50			Ω
Harmonics		-30			dBc
Spurious		-60			
Frequency Stability					
Ambient			±10	Reference to +25 °C	ppb
Operating Temperature	-30		+70		°C
Aging					
At time of shipment			±0.5		ppb
After indefinite storage					
Daily			±0.5	After 30 days	ppb
Yearly			±50		
10 Years			±150		
Voltage			±2	VDC ±5% change	
Warm-up			±10	In 10 minutes @ +25°C (Reference to 4 Hour)	
Phase Noise @ 5 MHz					
@10 Hz			-130		dBc
@100Hz			-145		
@1 kHz			-150		
@10 kHz			-150		
Electrical Frequnecy Adjustment					
Range	0.2		0.4		±ppm
Control	0.0		5.0		V
Slope		Positive			
Center	2.0	2.5	3.0	Control Voltage at which nominal Frequency occurs at time of shipment	V
Input impedance	100				kΩ
Input Power					
Voltage	11.4	12.0	12.6		V
Current@turn on			6.0		W
Steady state @25°C			2.0		
Reference Voltage					
Voltage	4.75	5.0	5.25		V
Load	9.0		∞		kΩ
Temperature Stability			±0.01		VDC

* All aging stabilities are after storage of up to 1 year and apply after 30 days of continuous operation. The daily aging rate also applies at the time of shipment from factory.
* The Electrical frequency Adjustment Range is sufficient for the life of the osillator. Specification subject to change with Frequency.

Available Frequency Range: 5MHz to 80MHz including 5.0, 10.0, 16.384, 19.44, 24.576, and 32.768 MHz.