

RoHS Compliant Optional

NB Type Oven Controlled Crystal Oscillator

FEATURE

1. Typical 50.8 × 50.8 × 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

Select option

OEXO	Package (mm)	Supply Voltage (V)	Pulling Range	Freq. Stability (ppb)	Temp. Range (°C)	Output Logic and Symmetry	Oscillator Mode	Pin out	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 50±5% Output CMOS 15pF Sine Wave	Not Selectable By Customer	N: Normal Please refer to "OUTLINE DRAWING"	F: RoHS Compliant L: Not RoHS Compliant		XX.XXXXXX

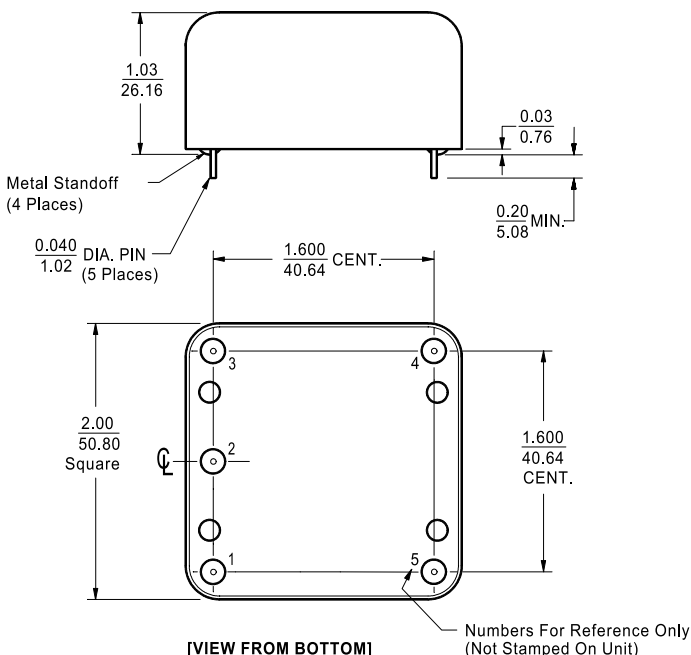
N B □ □ □ □ □ □ **H** □ □ □ - □

Example NBAKBDWHNL-5.000000

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.

* Not all combinations of options are available.

OUTLINE DRAWING



UNIT: Inch/mm

FREQ. STABILITY vs. TEMP. RANGE

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

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

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

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**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 $\pm 5\%$ change	ppb
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 Frequency Adjustment					
Range	0.2		0.4		\pm 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				K Ω
Input Power					
Voltage	11.4	12.0	12.6		V
@turn on current			6.0		W
Steady state @25°C			2.0		
Reference Voltage					
Voltage	4.75	5.0	5.25		V
Load	9.0		∞		K Ω
Temperature Stability			± 0.01		VDC

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

* 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 oscillator.
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.

