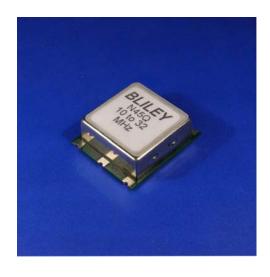


### **Low Profile OCXO**

## N45Q Series

#### **Description:**

The N45Q Ovenized **Crystal Oscillator Series** offers high stability performance in a low profile package (0.31 inches max.) for base station, telecom infrastructure and network synchronization applications.



#### **Features:**

- •Available in frequencies from 10 to 32 MHz •LVCMOS or HCMOS output
- •3.3 or 5 volt supply
- •RoHS-6/Leadfree compliant optional
- •Rugged surface mount package for machine placement

Frequency Range, Operating Temperature, and Frequency Stability:

- requested runnings
Frequency
Range
10 to 32 MHz

peranng remperature			
Product	Operating		
Code	Temperature		
Α	0 to +50° C		
В	0 to +70° C		
С	-20 to +70° C		
D	-40 to +85° C		

icy Stabili	ana i requency s		
Product	Frequency		
Code	Stability		
Α	+/- 30 ppb		
В	+/- 50 ppb		
С	+/- 75 ppb		
D	+/- 90 ppb		

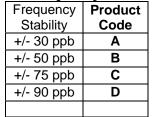
<sup>\* +/-30</sup> ppb is not available with -40 to +85° C operating temperature range.

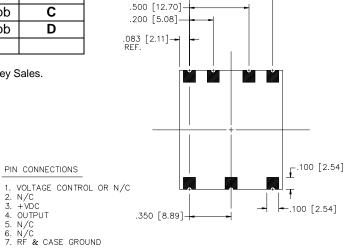
**Aging:** (typical at 10 MHz after 30 days continuous operation)

Frequency	Timeframe	Aging
All	1 Year	Less than +/- 100 ppb

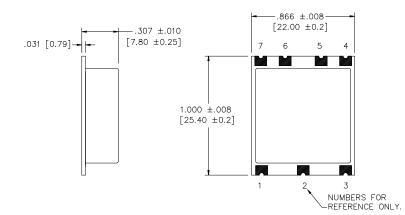
#### **Phase Noise:**

Frequency Offset	Square Wave
1 Hz	-80 dBc/Hz
10 Hz	-115 dBc/Hz
100 Hz	-145 dBc/Hz
1 KHz	-150 dBc/Hz
10 KHz	-155 dBc/Hz
100 KHz	-155 dBc/Hz





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<sup>\*\*</sup> For different frequency stabilities and other temperature ranges, consult Bliley Sales.



## **Low Profile OCXO**

# **N45Q Series**

**Supply Voltage & Power Consumption:** 

Supply Voltage	3.3V +/- 5%	5V +/- 5%
	4.0 W turn on power	4.0 W turn on power
Power Consumption	1.2W steady state power	1.2W steady state power
<b>Product Code</b>	A	В

**Output Waveform:** 

HCMOS		
Waveform Description		
HCMOS Output Levels (15pf load)	"0" < 0.5V; "1" > 4.5V	
Rise / Fall Time	<10ns (10% to 90%)	
Duty Cycle	45% to 55% @ 50% Logic 1	

**Pulling Range:** 

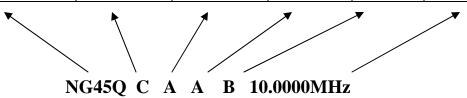
Product Code	A	В
Tuning Range ( 0V to Vsupply on Vcontrol )	None	+/- 1ppm min

#### **Environmental:**

Storage Temperature -55 to 125° C
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**Ordering Options:** 

Type, Package Style, and Lead-Free /Leaded	Operating Temp.	Frequency Stability	Supply Voltage	Pulling Range	Operating Frequency
	A	A	A	A	
N45Q	В	В	В	В	xx.xxxxMHz
NG45Q / RoHS Compliant	С	С			XX.XXXXIVITIZ
	D	D			



#### **Product Selection Code (refer to the above example):**

This part is RoHS compliant, -20C to +70C, +/-30 ppb frequency vs. temperature stability referenced to 25C, 3.3V supply, +/-1 ppm minimum pull, and a 10 MHz operating frequency