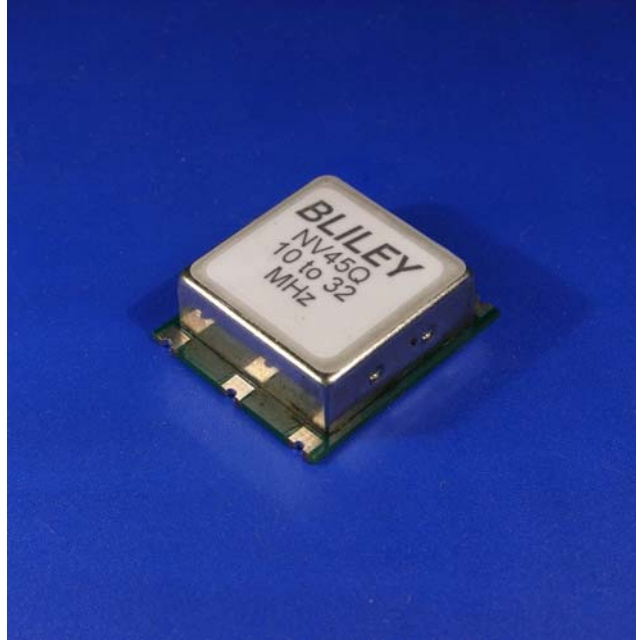


**Description:**

The NV45Q 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  
LVC MOS or HCMOS output  
3.3 or 5 volt supply  
RoHS-6/Leadfree compliant  
Rugged surface mount package for machine placement

**Frequency Range, Operating Temperature, and Frequency Stability:**

Frequency Range	Operating Temperature	Product Code	Frequency Stability	Product Code
10 to 32 MHz	0 to +50° C	<b>A</b>	+/- 30 ppb	<b>A</b>
	0 to +70° C	<b>B</b>	+/- 50 ppb	<b>B</b>
	-20 to +70° C	<b>C</b>	+/- 75 ppb	<b>C</b>
	-40 to +85° C	<b>D</b>	+/- 90 ppb	<b>D</b>

\* +/-30 ppb is not available with -40 to +85° C operating temperature range.  
\*\* For different frequency stabilities and other temperature ranges, consult Bliley Sales.

**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

### Supply Voltage & Power Consumption:

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

### 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:

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

### Environmental:

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

Lead-Free /Leaded	Operating Temp.	Frequency Stability	Supply Voltage	Pulling Range	Operating Frequency
R or NR	A	A	A	A	xx.xxxxMHz
R or NR	B	B	B	B	
R or NR	C	C			
R or NR	D	D			

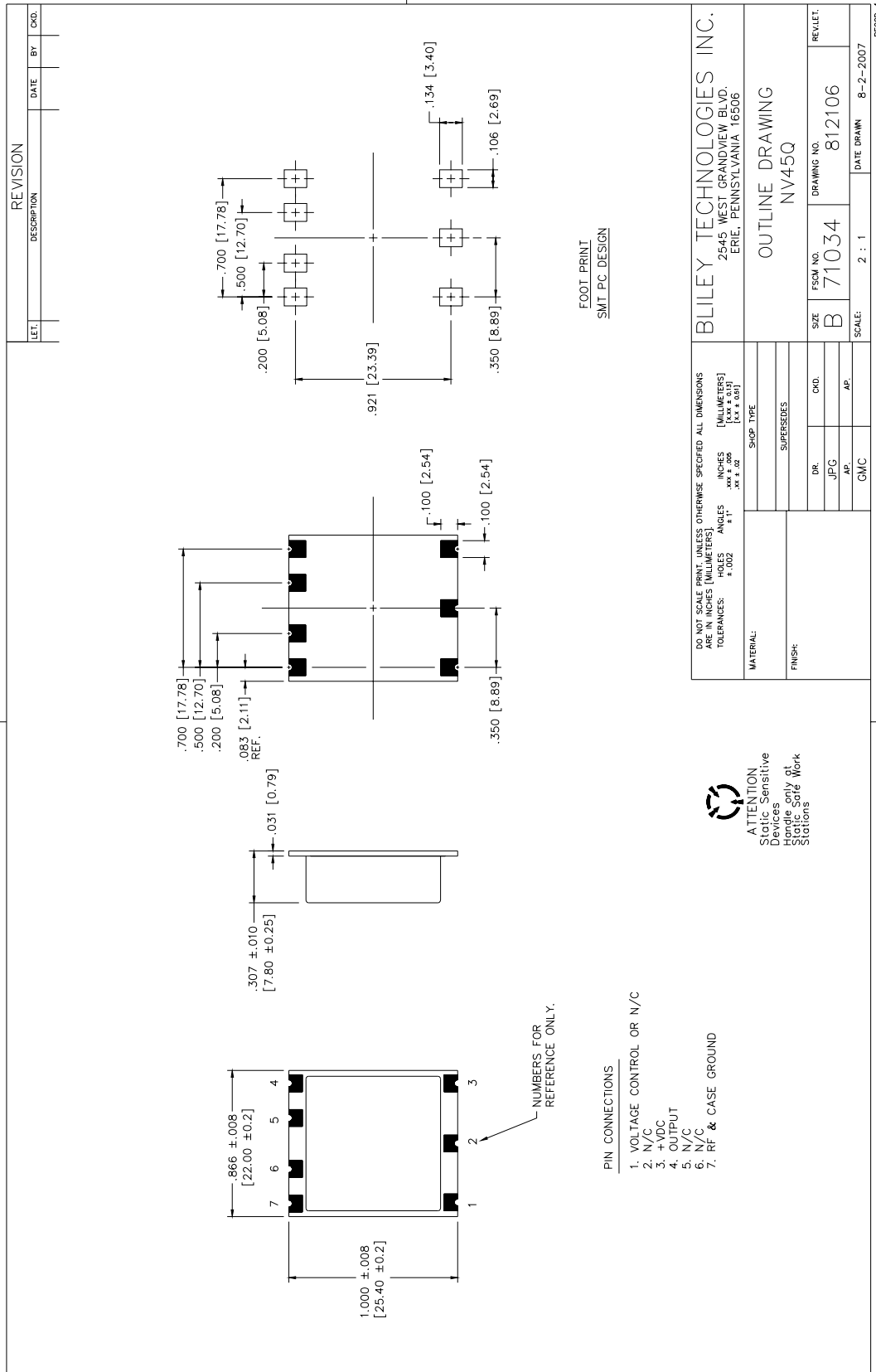
N45Q R C A A B 10.0000MHz



### 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, +/- 1ppm minimum pull, and a 10 MHz operating frequency

### Outline Drawing & Pin Out:





# Low Profile OCXO

# NV45Q Series

**How to Order This Product:**

Contact Bliley Technologies with Product Selection Code from the worksheet or Product Information Request Form.

**Attn:**

Sales @ Bliley

Fax: **814-833-2712**

Phone: 814-838-3571

Email: [info@bliley.com](mailto:info@bliley.com)Web: [www.bliley.com](http://www.bliley.com)

Date: \_\_\_\_\_

**From:**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Fax: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Quantities to Quote: \_\_\_\_\_ Target Price: \$ \_\_\_\_\_

Application / Reference #: \_\_\_\_\_