Customer Code : _____

DATASHEET

DAPU P/N : **N32-40.00MHz**

Customer P/N: **X3225NN40001H2**

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2019.02.27			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2019.02.27

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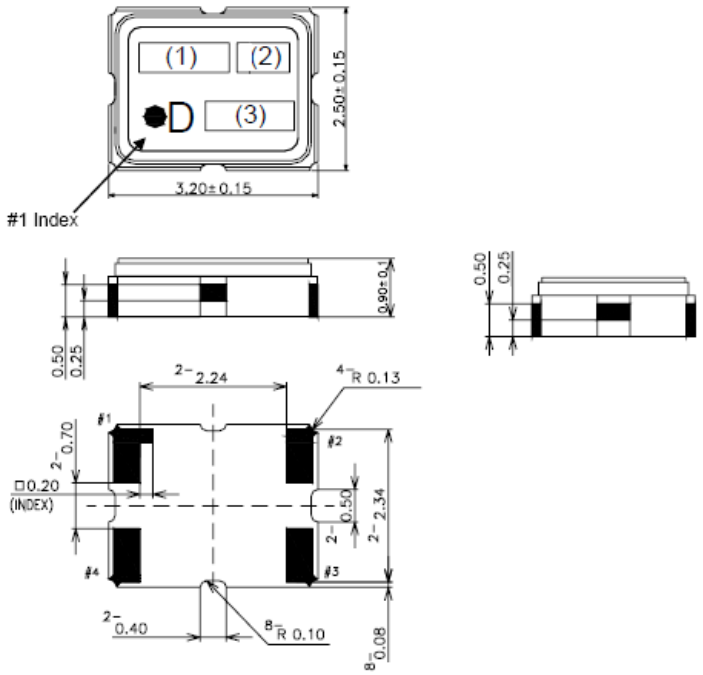
1. Electrical Parameters

MODEL： N32-40.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		40.00		MHz	
	Output Waveform		Clipped Sine Wave			
	Vp-p	0.8			V	
	Load		10KΩ//10pF			
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from-30 to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃ per minute.
		-1.0		+1.0	$\times 10^{-6}$	T_A varied from-40 to -30℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃ per minute.
	Initial Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	After 2 times reflow Ref. to before refrow frequency
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc}=3.135V to 3.465V, and O_{Load}=10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V,O_{Load}=10KΩ//10pF.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T_A=Room ambient
Power Supply	Current Consumption			2	mA	@25℃, V_{cc}=3.3V, O_{load}=10KΩ//10pF.
	Supply Voltage	3.135	3.3	3.456	V	
Phase Noise	Phase Noise			-80	dBc/Hz	10Hz
				-110		100Hz
				-130		1KHz
				-145		10KHz
				-148		100KHz

Environmental Conditions	Operating Temperature	-40		+85	℃	
	Storage Temperature	-40		+85	℃	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz～2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc.				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

2. Mechanical Structure(mm)



Pin Connections

Pin No.	Connection
#1	GND
#2	GND
#3	Output
#4	V_{CC}

Marking
(1) Frequency 20.00 (MHz, 4digits)
(2) Model code BN
(3) Date code Year (1digit) +Week (2digits)
e.g.2013/01/01→ 301

unit: mm
Dimensional Tolerance: ±0.15
(Unless otherwise noted)

Note1: Tolerance ±0.1mm without mark
Note2: Referential weight 0.02g