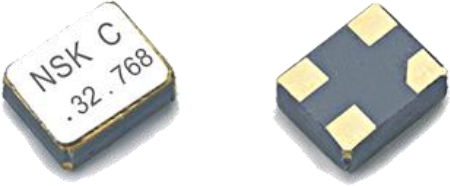














## NAOL Series 2.5 x 2.0

  	<b>Application :</b> <ul style="list-style-type: none"> <li> Typically used for real time clock application</li> <li> Mobile Phone / Set-top Box</li> <li> Notebook PC / Portable PC</li> <li> Car navigation systems</li> <li> Wireless LAN</li> </ul>
	<b>Features :</b> <ul style="list-style-type: none"> <li> Meet clock signal for tight tolerance requirement</li> <li> Tight symmetry (45 to 55%) available</li> <li> Low Power Consumption</li> <li> Tri-state enable / disable</li> <li> Excellent solderability</li> </ul>

## Electrical Specification :

Model		NAOL-22		
Frequency Range	KHz	32.768		
Oscillation Mode		Fundamental		
Output Type		CMOS		
Output Load	pF	15		
Frequency Stability	PPM	A: ±100	B: ±50	C: ±30 D: ±25
Operating Temp Range	°C	-20 ~ +70 or specify		
Storage Temp Range	°C	-55 ~ +125		
Power Supply Voltage	VDC	3.3V±10%	2.5V±5%	1.8V±5%
Voltage Vol / Voh	%	10% VDD (Max) / 90% VDD (Min)		
Output Symmetry		40% ~ 60% or 45% ~ 55% (at 55%VDC)		
Tri-state Voltage Vol / Voh		0.3 VDD / 0.7 VDD		
Start Time	mS	10		
Current Consumption	uA	240 (Max)		
Rise and Fall Time	nS	200 (Max)		

\* Above specification subject to change without prior notice, please consult our sales representative for more information\*

### TAIWAN — JENJAAN QUARTEK CORPORATION

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 E-mail : jjenjaan@jenjaan.com.tw Web : http://www.nsk.com.tw

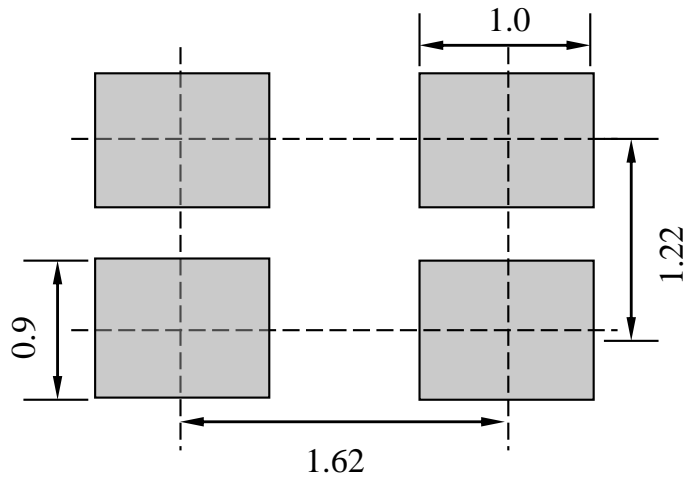
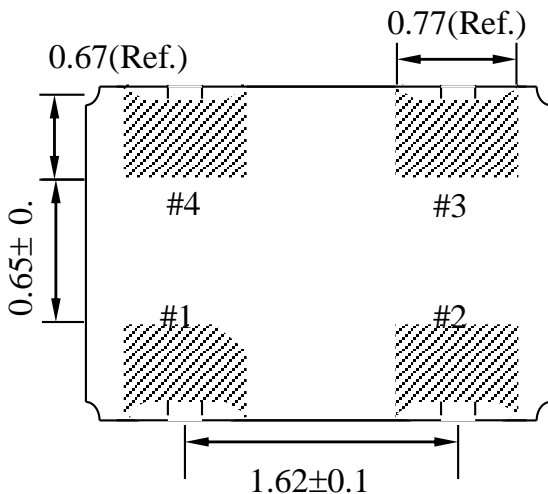
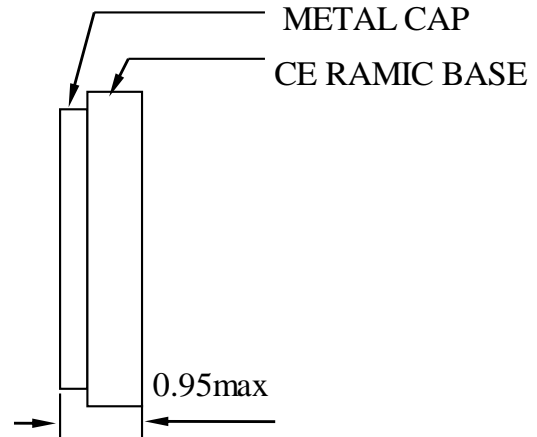
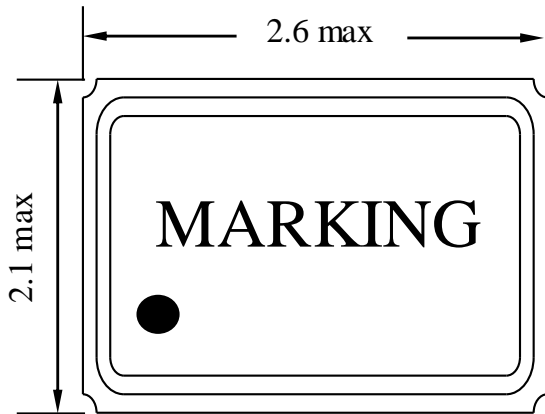
### FACTORY - DONG GUAN ALLIED PROJECT LIMITED

Address : No. 703, Fu Min Zhong Road, Yang Yong Village, Dalang  
 Town, Dong Guan, Guang Dong, China Tel : +86-769-8311-9395  
 Fax : +86-769-8313-0880 E-mail : alliedj@pub.dgnet.gd.cn

# SMD TYPE CERAMIC OSCILLATORS



## Dimensions (mm) :



### #1: ENABLE / DISABLE FUNCTION

INH (PIN 1) —————>	OUTPUT (PIN 3)	# NO.: define	
High (OPEN) —————>	Operating	#4: VDD	#3: OUTPUT
LOW —————>	High impedance	#1: E/D	#2: GND

\* Above specification subject to change without prior notice, please consult our sales representative for more information\*

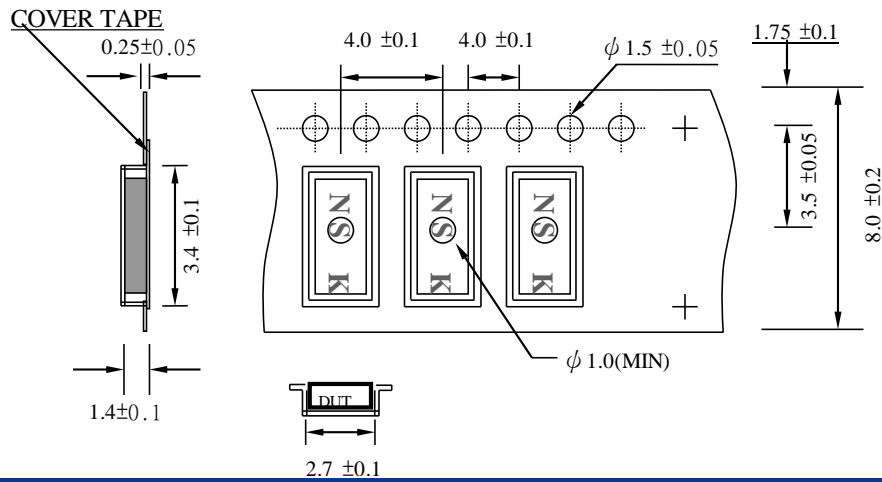
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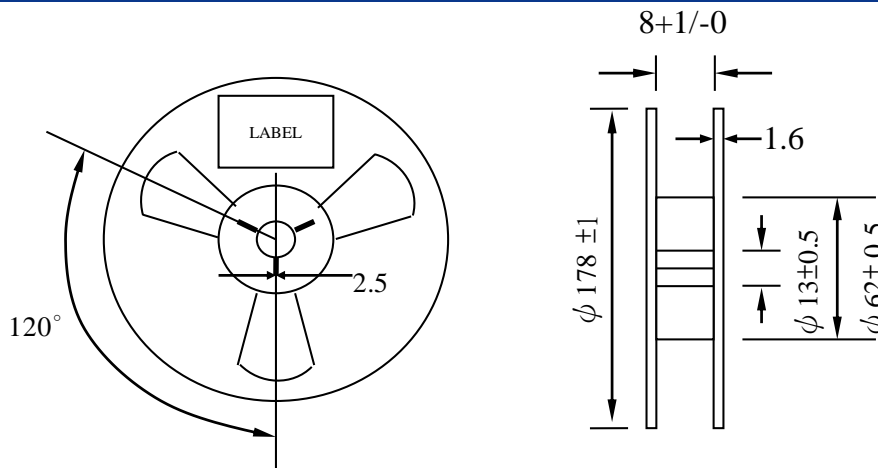
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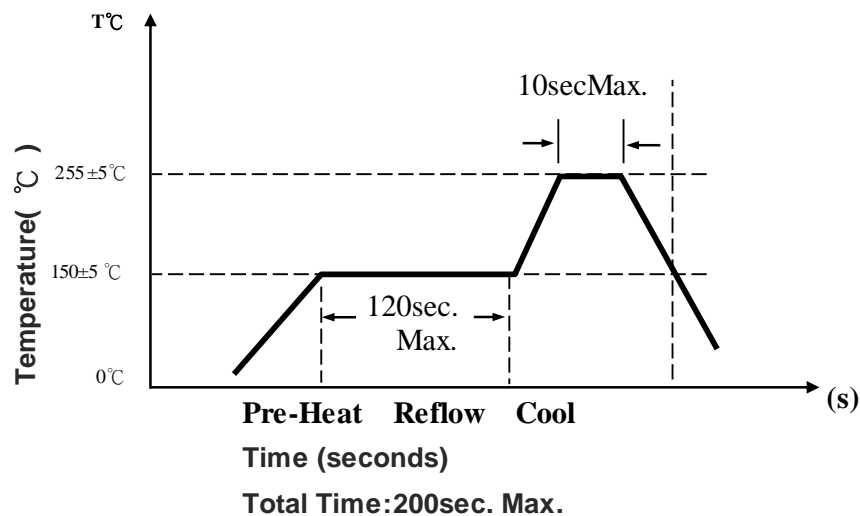
## Tape Specification(mm) :



## Reel Packing(mm) :



## Reflow Temperature Profile :



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