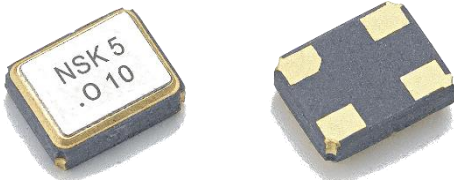


SMD TYPE CERAMIC OSCILLATORS



NAOK Series 3.2 x 2.5

  	Application :
	- Portable PC / Digital camera - Wireless Lan / DOA Terminal - Portable multimedia player - PCMCIA card / SD card - CCD / HDD
	Features :
	- Low power consumption - RoHS compliant / Pb free - Excellent solderability - Seam welding - Tri-State



Electrical Specification :

Model		NAOK-32				
1. Frequency						
Frequency Range	MHz	1.0 ~ 170.0				
Frequency Stability	PPM	A: ±100 B: ±50 C: ±30 D: ±25				
Operating Temp Range	°C	0 ~ +70, -40 ~ +85 or specify				
Storage Temp Range	°C	-55 ~ +125				
Output Level		CMOS				
Output Symmetry	%	40% ~ 60% or 45% ~ 55% (at 55%VDC)				
Power Supply Voltage	VDC	5.0V±10%	3.3V±10%	2.8V±5%	2.5V±5%	1.8V±5%
2. Current Consumption						
2.00 MHz ~ 9.99 MHz	mA Max.	20	7	6	6	5
10.00 MHz ~ 19.99 MHz		20	7	8	8	6
20.00 MHz ~ 31.99 MHz		25	12	8	8	6
32.00 MHz ~ 49.99 MHz		35	20	20	20	15
50.00 MHz ~ 53.99 MHz		50	20	20	20	15
54.00 MHz ~ 79.99 MHz		50	30	-	20	15

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

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Address: 6910b,Seg Plaza,No.1002 North Huaqiang Road,Fuqiang Community,Huaqiang North Street,Shenzhen,Guangdong,China

Tel: +86-0755-83576022

E-mail: hlc-zzw@hlcdzjkj.com

Fax: 0755-83778079

Web: <http://www.hlcdzjkj.com>

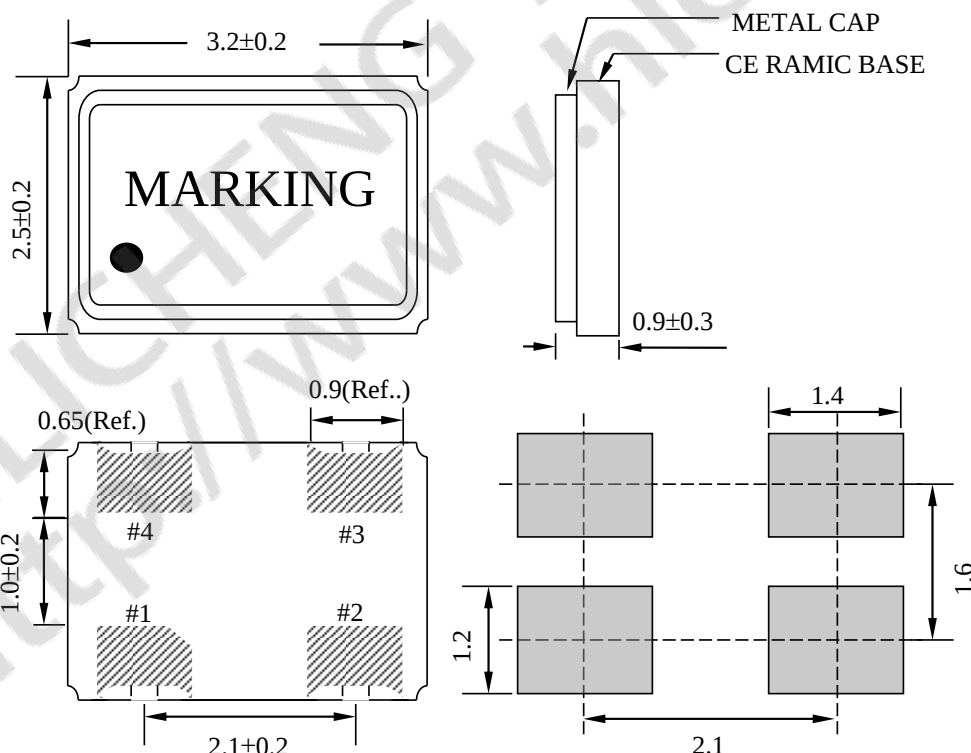
SMD TYPE CERAMIC OSCILLATORS



80.00 MHz ~ 99.99 MHz		-	40	-	28	15
100.0 MHz ~ 170.0 MHz		-	40	-	28	15
3. Rise and Fall Time						
2.00 MHz ~ 9.99 MHz	ns Max.	15	20	5	5	7
10.00 MHz ~ 19.99 MHz		15	15	5	5	7
20.00 MHz ~ 31.99 MHz		15	10	5	5	6
32.00 MHz ~ 49.99 MHz		15	10	5	5	6
50.00 MHz ~ 53.99 MHz		10	10	5	5	6
54.00 MHz ~ 79.99 MHz		10	6	-	5	5
80.00 MHz ~ 99.99 MHz		4	5	-	4	5
100.0 MHz ~ 170.0 MHz		4	4	-	4	5
4. Output Load	pF	15				
5. Aging	PPM/Year	±3				



Dimensions (mm) :



#1: ENABLE / DISABLE FUNTION

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

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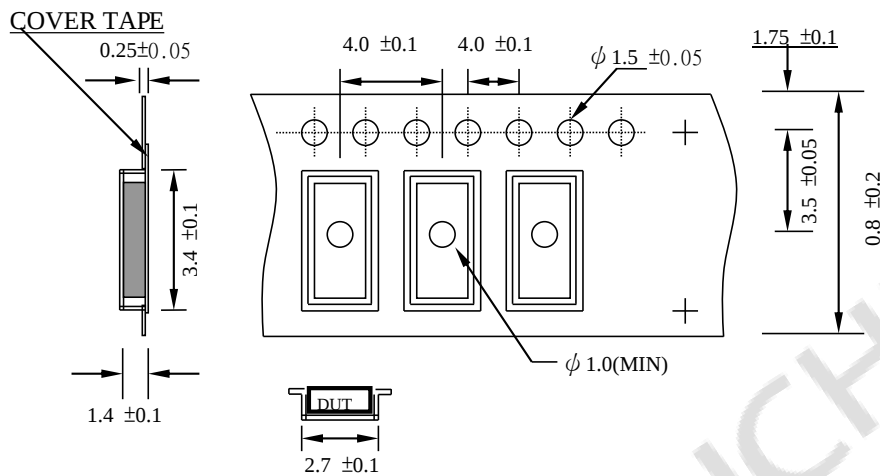
Tel: +86-0755-83576022

E-mail: hlc-zzw@hlcdzjkj.com

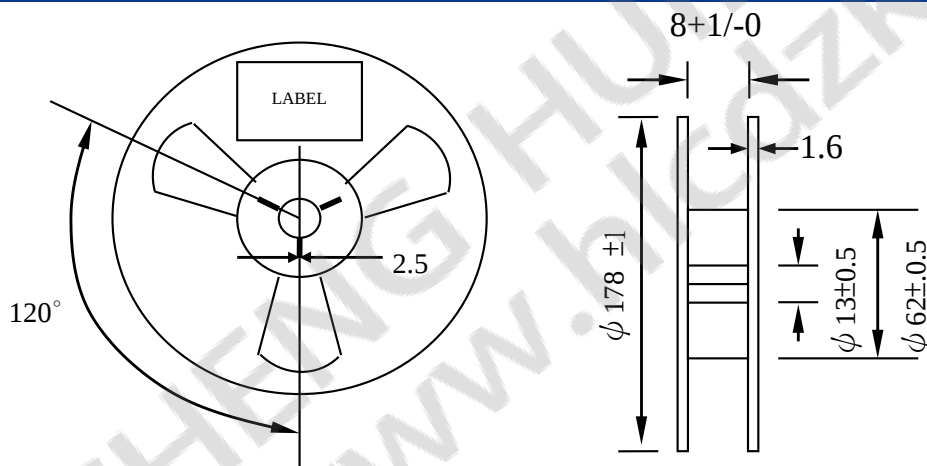
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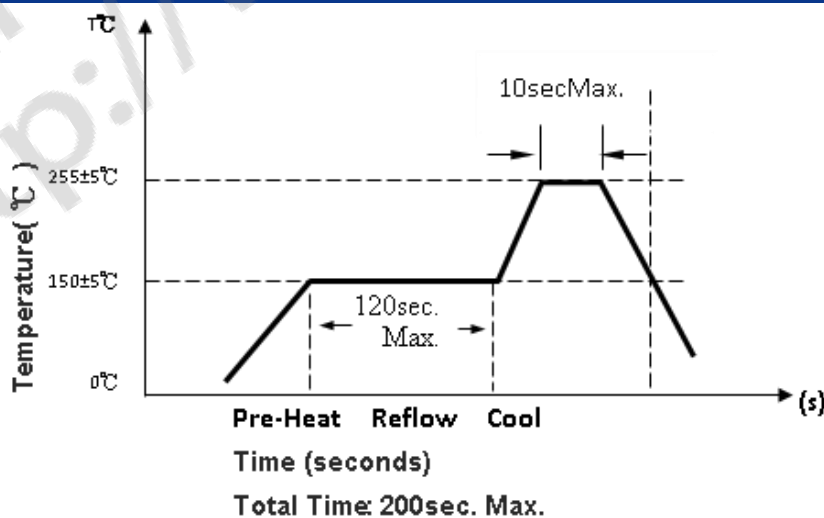
Tape Specification(mm) :



Reel Packing(mm) :



Reflow Temperature Profile :



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