



NIHON DEMPA KOGYO CO., LTD
TUNING FORK CRYSTAL SPECIFICATIONS



Date: February 28,2008

THIS SPECIFICATION SHEET IS PROVIDED TO:

For specifying specifications of following product:

DT-26SMD 32.768KHz
(NDK Part Number)

(Your Part Number)

Prepared By:

CONFIRMED BY:

Checked By:

For future reference, we thank you to confirm the specifications and send one copy back to us.



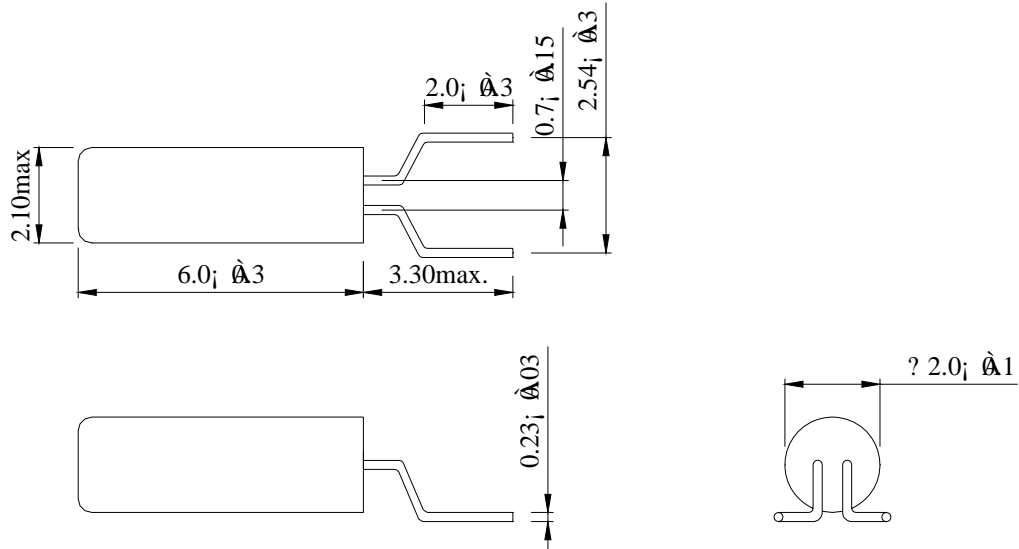
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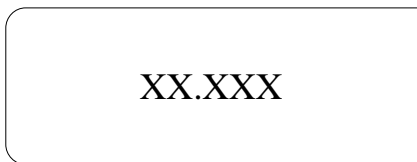
● ELECTRICAL PARAMETERS

No.	Characteristic	Limits	Remark
1	Nominal Frequency	32.768KHz	
2	Mode of Vibration	Fundamental	
3	Frequency Tolerance	±20ppm	Measure at 25°C±3°C
4	Operating Temperature Range	-10+60C	
5	Temperature Coefficient	-0.042ppm/(Δ°C) ²	Over Operating Temperature Range
6	Storage Temperature Range	-40°C~+85°C	
7	Load capacitance	12.5pF	
8	Equivalent Series Resistance	50kΩ max	
9	Drive Level	1μW max	
10	Insulation Resistance	500MΩ	At 100V _{DC}
11	Shunt Capacitance	2pF max	
12	Motional Capacitance	4fF max	
13	Aging Per Year	±5ppm	First Year
14	Package Type	DT-26 Forming type	See Page 5

● **OUTLINE DIMENSIONS (UNIT:MM)**



● **MARKING**



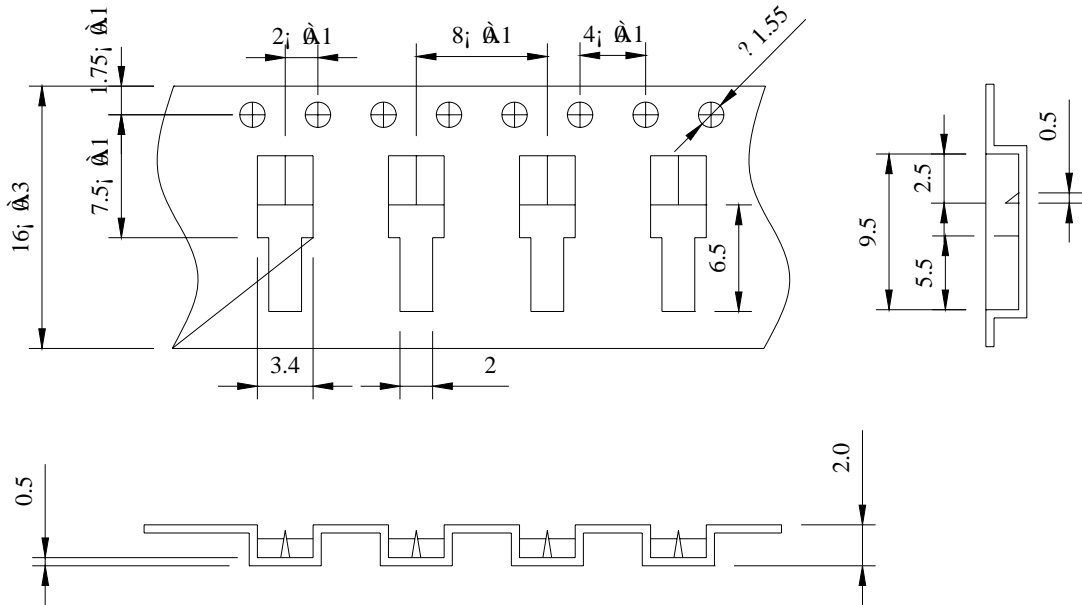
First 6 Digital: Frequency in KHz

FOR EXAMPLE:

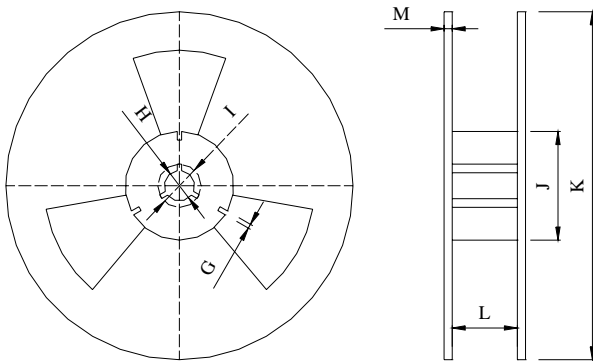
32.768

● **PACKAGE**

Tape Dimensions(unit :mm)



Reel Dimensions(unit: mm)



G	H	I	J	K	L	M
2.5	13.5	21.6	60.0	330	13.5	1.6

***3000pcs/Reel**



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No.	Test Item	Test Conditions	Reference
1	High Temperature Storage	Temperature: 125°C±10°C Time: 1000±24 Hours	MIL-STD-883E-1016
2	Temperature Cycle	Temperature 1: -55°C±10°C Temperature 2: 125°C±10°C Temperature change between T1 and T2 at soonest Run 10 cycles, maintain T1 and T2 30minutes each in one cycle	MIL-STD-883E-1010.7B
3	Solder Heat Resistance	Pre-heat: 125°C 60~120 Seconds Solder Temperature: 260°C±10°C Time: 5 Seconds	MIL-STD-202F 210 E
4	Drop Test	3 Times Free Fall from 75cm height table to 3cm thickness hard wood board	MIL-STD-202F-203B
5	High Temperature, High Humidity Storage	Temperature: 40°C±5°C Relative Humidity: 90%--95% Time: 1344 Hours±24 Hours	MIL-STD-202 F-103B
6	Steam Aging	Temperature: 97°C Time: 8 Hours 230°C solder pot to check solderability	MIL-STD-883 C-1008.2B
7	Solderability	Dip in flux 5~10 seconds Temperature: 230°C±10°C Time: 5 Seconds	MIL-STD-883E 2003
8	Aging	Temperature: 85°C±5°C Time: 250±12Hours	MIL-STD-202 F-108A B
9	Thermal Shock	Temperature 1: -55°C±10°C Temperature 2: 125°C±10°C Temperature change between T1 and T2: 5 seconds 10 cycles, maintain T1 and T2 for 30 minutes each in one cycle	MIL-STD-883E-1011.9B
10	Vibration	Frequency Range: 10Hz~1000Hz Amplitude: 1.5mm 40mins in each direction, total 120mins	MIL-STD-202F-201A