



Shenzhen Luguang Electronic Technology Co.,Ltd.

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RoHS

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Specification

Customer: Well Long International

Product Name: OSCILLATOR

Part Number: 24.576M

Material No.: _____

Drawn by: 孟娜

Checked by: 王军

Approved by: 陈薇葳

Date: 2010-03-24

Customer Approval:

Signature: _____ Job Title: _____ Date: _____

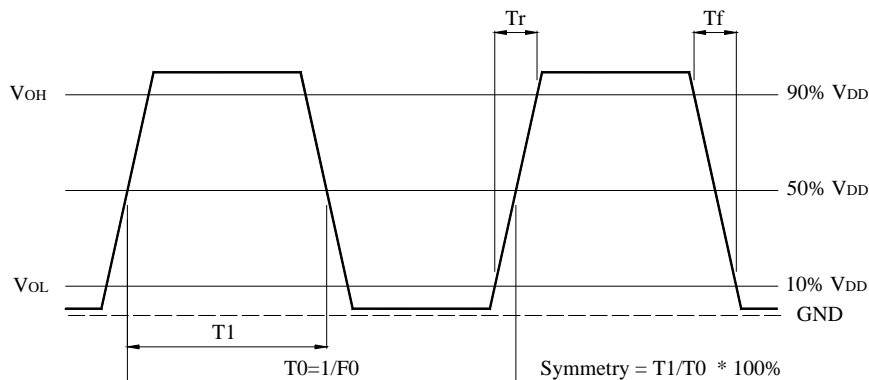
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- ELECTRICAL PARAMETERS**

No.	Characteristic	Limits	Remark
1	Nominal Frequency	24.576Mhz	
2	Power Supply	3.3V _{DC} ± 10%	
3	Frequency Stability	± 100ppm	See Note 1
4	Aging	± 5ppm	First Year
5	Operating Temperature Range	0°C ~ +70°C	
6	Storage Temperature Range	-55°C ~ +125°C	
7	Input Current	20mA	
8	Symmetry	40/60%	At 50% V _{DD}
9	Rise Time	8nS max	10%V _{DD} ~ 90% V _{DD}
	Fall Time	8nS max	90%V _{DD} ~ 10% V _{DD}
10	Output Load	15pF	
11	Output Low Level	10%V _{DD} max	
	Output High level	90%V _{DD} min	
12	Package Type	HXO-36B	See page 5

Note 1: include 25°C tolerance, operating temperature range, input voltage change, load change, shock and vibration.

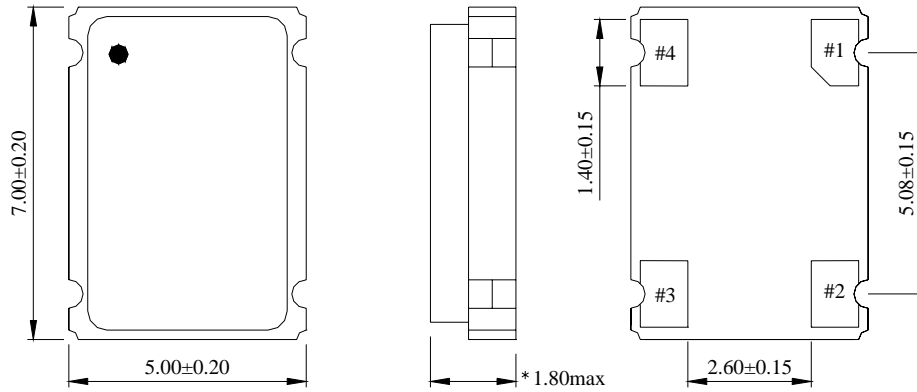
Output Waveform



- **RELIABILITY SPECIFICATIONS**

No.	Test Item	Test Conditions	Reference
1	High Temperature Storage	Temperature: 125°C ±10°C Time: 1000±24 Hours	MIL-STD-883E
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
3	Solder Heat Resistance	Pre-heat: 125°C 60~120 Seconds Solder Temperature: 260°C ±10°C Time: 5 Seconds	MIL-STD-202F
4	Drop Test	3 Times Free Fall from 75cm height table to 3cm thickness hard wood board	MIL-STD-202F
5	High Temperature, High Humidity Storage	Temperature: 85°C Relative Humidity: 85% Time: 500 Hours	MIL-STD-883E
6	Steam Aging	Temperature: 97°C Time: 8 Hours 230°C solder pot to check solderability	MIL-STD-883E
7	Solderability	Dip in flux 5~10 seconds Temperature: 230°C ±10°C Time: 5 Seconds	MIL-STD-883E
8	Aging	Temperature: 85°C Time: 500 Hours	MIL-STD-883E
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-202F
10	Vibration	Frequency Range: 10Hz~1000Hz Amplitude: 1.5mm 40mins in each direction, total 120mins	MIL-STD-883E

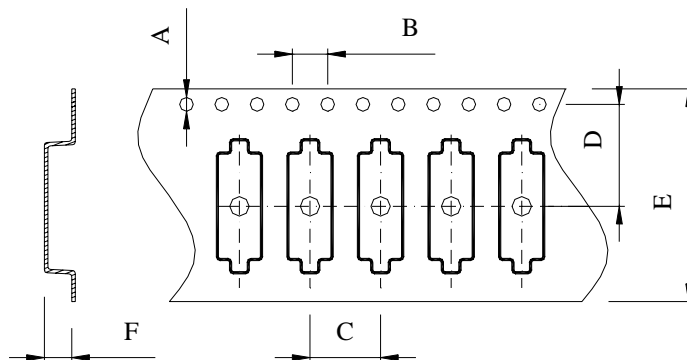
● **Outline Dimensions (unit: mm)**



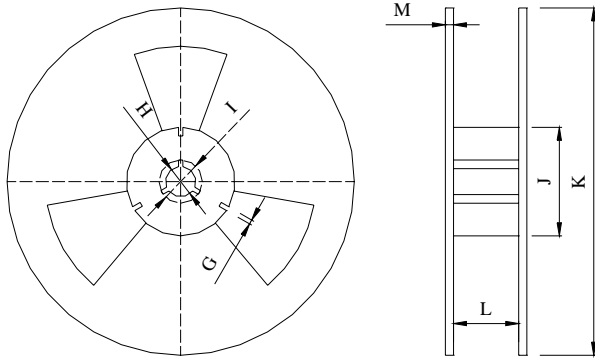
Pin	Connection
1	Tri-state
2	GND
3	Output
4	+3.3 V _{DC}

● **PACKAGE**

Tape Dimensions (unit : mm)



A	B	C	D	E	F
1.5	4.0	8.0	7.5	16.0	2.0

Reel Dimensions(unit: mm)


G	H	I	J	K	L	M
2.5	13.5	21.6	60.0	178	17.5	1.6

***1000pcs/Reel**