



Shenzhen Luguang Electronic Technology Co.,Ltd.

TEL.: 0755—23981126 23981128

FAX: 0755—23981125

RoHS

Website: www.luguang.cn www.lge-tech.com Email: lge@luguang.cn

Add.: 13A07,B Block,Haisong Building,Terra 9rd.,Chegongmiao,Futian Dist.,Shenzhen,China

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: _____

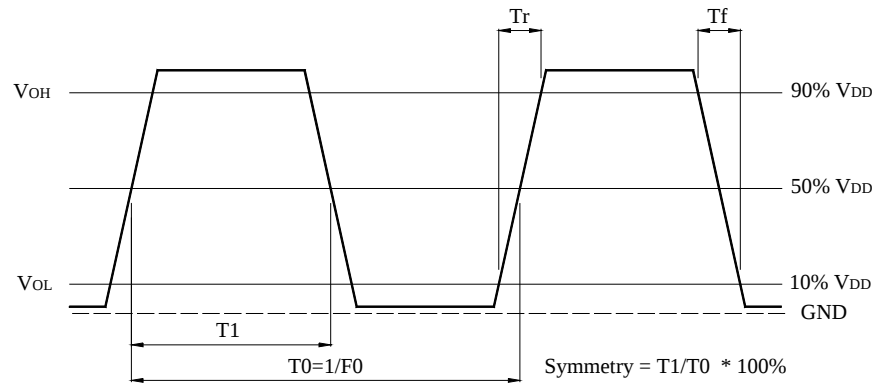
(Please return the approved sheet to Shenzhen Luguang Electronic Technology Co.,Ltd.)

- ELECTRICAL PARAMETERS**

No.	Characteristic	Limits	Remark
1	Nominal Frequency	24.576Mhz	
2	Power Supply	$3.3V_{DC} \pm 10\%$	
3	Frequency Stability	$\pm 100\text{ppm}$	See Note 1
4	Aging	$\pm 5\text{ppm}$	First Year
5	Operating Temperature Range	$0^{\circ}\text{C} \sim +70^{\circ}\text{C}$	
6	Storage Temperature Range	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	
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%VDD max	
	Output High level	90%VDD 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.

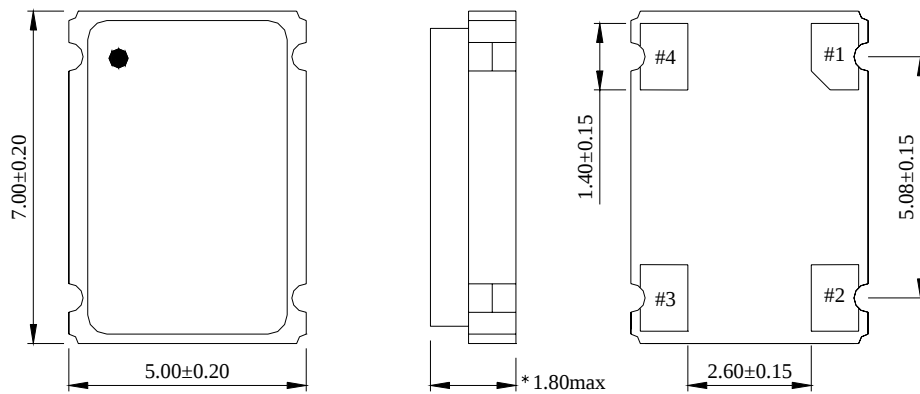
Output Waveform



- **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

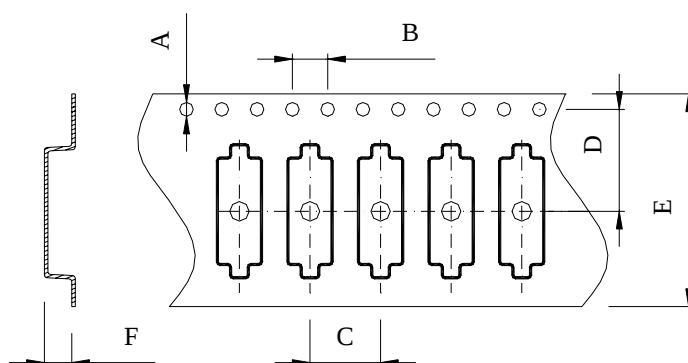
● **Outline Dimensions (unit: mm)**



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

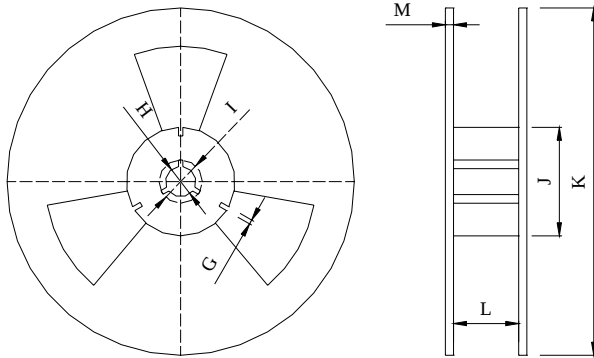
● **PACKAGE**

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**