

深圳市万利好电子有限公司

Shenzhen Merlin Electronics Co., Ltd.

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

8.2222 MHz




HOLDER TYPE

DIP 8 HALF SIZE CRYSTAL CLOCK CXO

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

APPROVED	PREPARED	QA
		
APPROVED BY CUSTOMER :		AVL Status

DIP 8 HALF SIZE CRYSTAL CLOCK CXO

TYPE : DIP HALF SIZE CRYSTAL CLOCK CXO SIZE 12.9 x 12.9 x 5.5

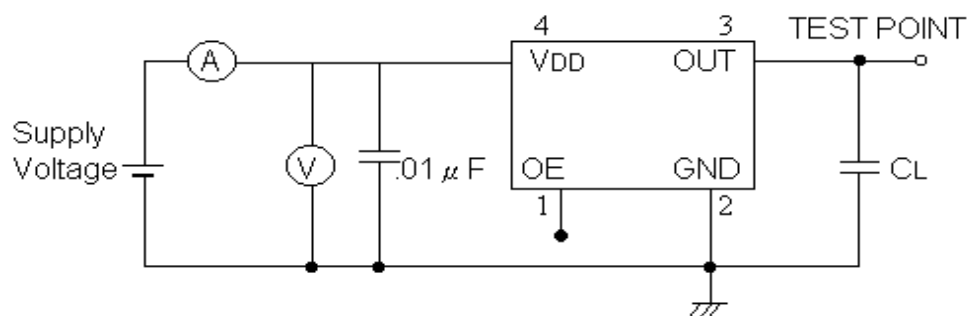
ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO	8.2222			MHz	
Mode of Oscillation	OT	<input type="checkbox"/> Fundamental <input checked="" type="checkbox"/> 3 Overtone <input type="checkbox"/> 5 Overtone				
Frequency Tolerance/Stability	FT	± 30			ppm	with working temperature Reference to 25℃ frequency
Working temperature range	TR	-20~70			℃	
Supply Voltage	Vcc/Vdd	5			V	± 10%
Fan out type	LT	CMOS				
Current consumption	OI/Idd	30			mA	Max.
Symmetry	DC/SY	40~60			%	
Rise / Fall time	rf	6			ns	Max.
Output Voltage Voh		4.5			V	
Output Voltage Vol		0.5			V	
E / D (PIN#1)		NC				
Output driving ability	CL	15			pF	
Storage temperature range		-40 ~ 85			℃	
Aging		5			ppm/yr.	
Start Up Time		10			ms	
Unit Weight		1.91 ± 5 %			g	

※ This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard.

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TEST DIAGRAM



CL: 15pF

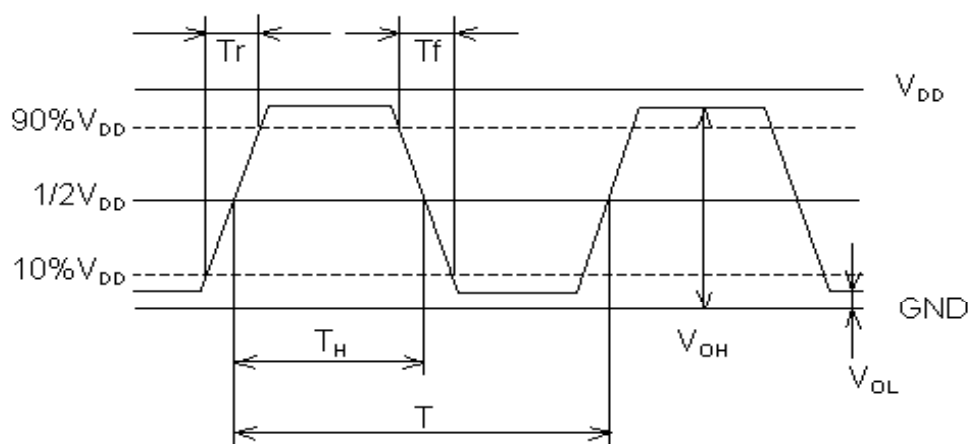
(Including Probe and Fixture Capacitance)

Reset Function :

Logic 0 On Pad - Disable Output to High Impedance

Logic 1 or Open On Pad 1 - Oscillator Output

WAVEFORM CONDITIONS



$$\text{Symmetry} = \frac{T_H}{T} \times 100 (\%)$$

Notes:

1. Pad 1 options

a. N/C

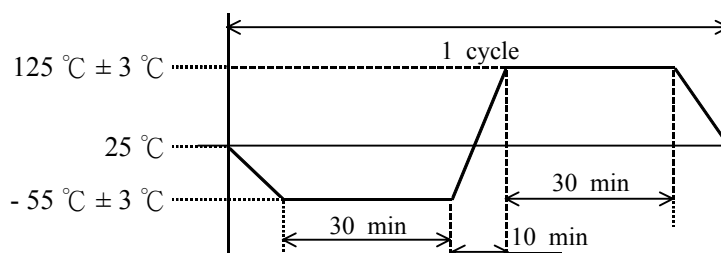
b. Control input (output enable/disable)

2. Waveform measurement system should have a min. Bandwidth of 5 times the frequency being tested.

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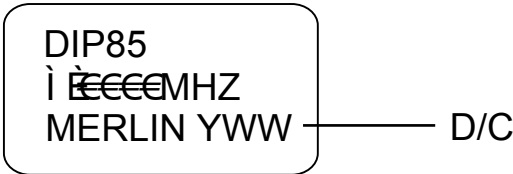
RELIABILITY SPECIFICATIONS

NO.	TEST ITEM	TEST METHODS
1	DROP TEST	Device are dropped from a height of 75 cm onto 2 mm thickness stainless plate executing 3 times of random drops.
2	MECHANICAL SHOCK	Device are shocked to half sine wave (100 G) three mutually perpendicular axes each 3 times.
3	VIBRATION	Frequency range 10 ~ 55 Hz Amplitude 1.5 mm Sweep Time 1 minute Test Time 2 hours for each direction
4	SOLDERABILITY	MIL - STD - 202G Method 208H Temperature 245°C±5°C Material H63A (Silver 2 ~ 3 %) Immersion time 5 ± 0.5 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)
5	RESISTANCE TO SOLDERING HEAT	MIL - SLD -202G, Method 210F 10 sec immersion into 260 ± 5°C solder pot, above 180°C is 90 ~ 120 sec.
6	LOW TEMP. STORAGE	Leave at - 55 °C ± 3°C for 500 ± 12 hours
7	HIGH TEMP. STORAGE	Leave at 125 °C ± 3°C for 500 ± 12 hours
8	THERMAL SHOCK	Total 5 cycles of the following temperature cycle

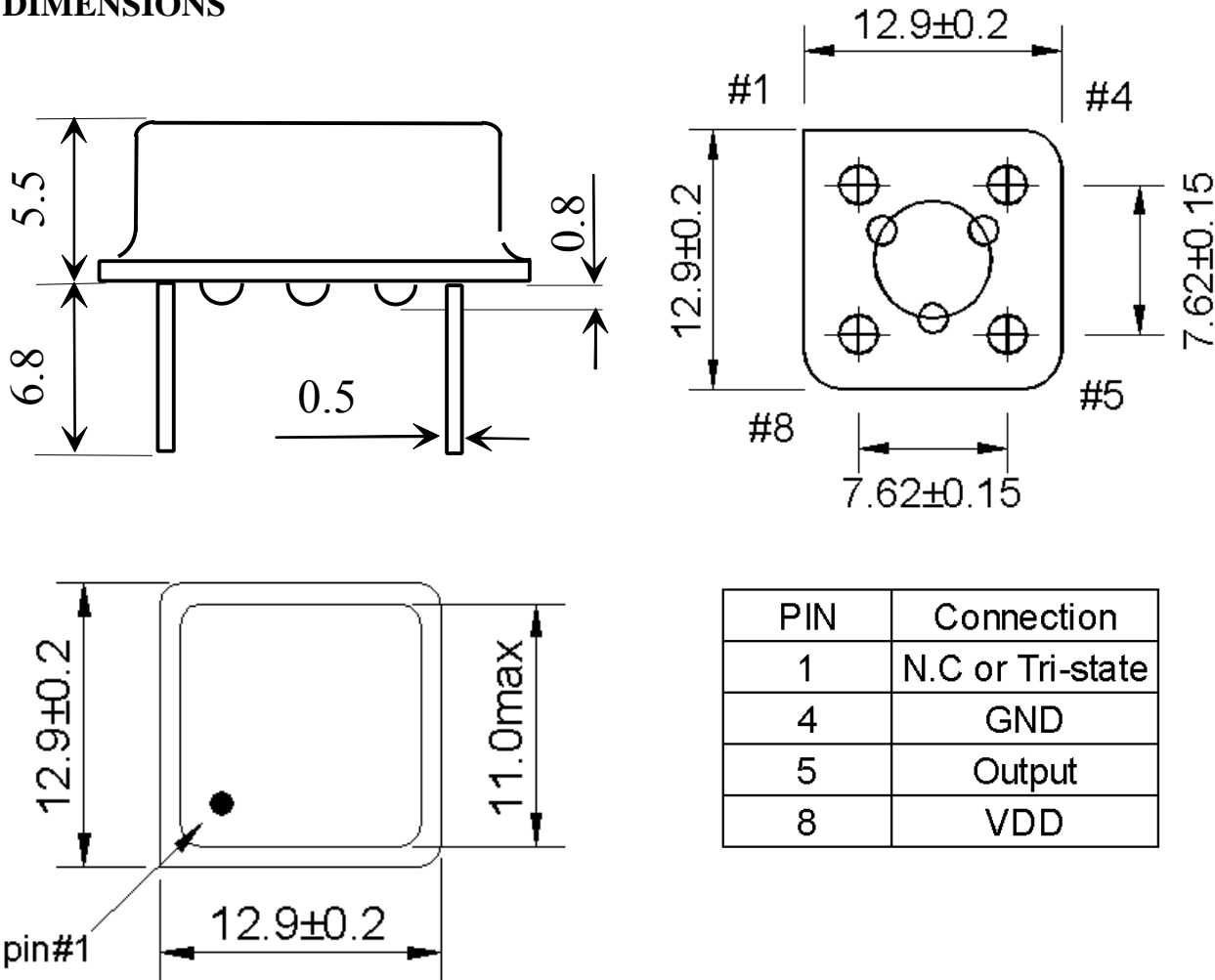


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MARKING



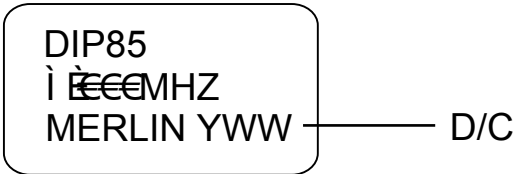
DIMENSIONS



PIN	Connection
1	N.C or Tri-state
4	GND
5	Output
8	VDD

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MARKING



DIMENSIONS

