PRODUCT DATASHEET

Pressure Sensor

IP2623M2100-N30

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1. Features:

- Small size, Low Cost
- Absolute Version
- Constant Current or Constant Voltage Drive

2. Applications

- Industrial Sensor
- Altimeter

3. Specification

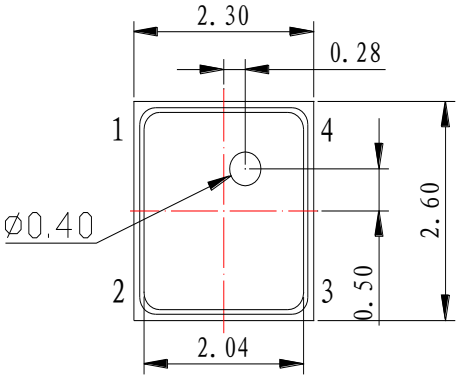
Type of pressure	Absolute type
Pressure medium	Dry air or non-corrosive gas

parameter	Min	Nominal	Max	Unit
Excitation Voltage	-	5	-	V
Bridge Impedance	4		6	KΩ
Range of Measurement		2100		KPa
Full range output（@5V）[1]	70	100	130	mv
Offset	-30	0	30	mv
Linearity [2]	-0.3	±0.15	0.3	%FS
Hysteresis	-0.3	±0.1	0.3	%FS
TC Span [3](Constant Voltage)	-0.17	-0.22	-0.27	%FS/℃
TC Span[4] (Constant Current)	-0.08	±0.02	0.08	%FS/℃
TC Offset[3]	-0.08	0	0.08	%FS/℃
Proof Pressure	-	-	2X	Rated FS
Burst Pressure	-	-	3X	Rated FS
Operating Temperature	-40	-	125	℃
Storage Temperature	-55	-	150	℃

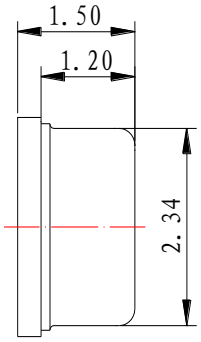
1. Unless otherwise specified, span is measured at 5.0V Constant Voltage supply at 25° C.
2. Defined as best straight line.
3 .Unless otherwise specified, temperature coefficients are measured from 0° C to 50° C @ 5V Constant voltage excitation.
4. Unless otherwise specified, temperature coefficients are measured from 0° C to 50° C @ 1mA Constant Current excitation.

4. Mechanical Specifications and Pads Definition

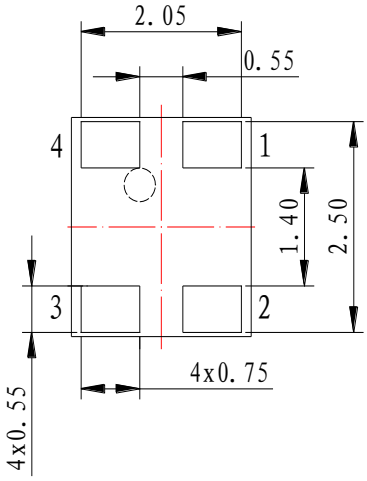
Top View



Side View



Bottom View



Item	Dimension	Tolerance	Units
Length(L)	2.60	±0.10	mm
Width(W)	2.30	±0.10	mm
Height(H)	1.50	±0.10	mm
Acoustic port(AP)	Φ0.40	±0.10	mm

Pad Output	
Pad#	Function
1	Vout-
2	IN+
3	Vout+
4	IN-

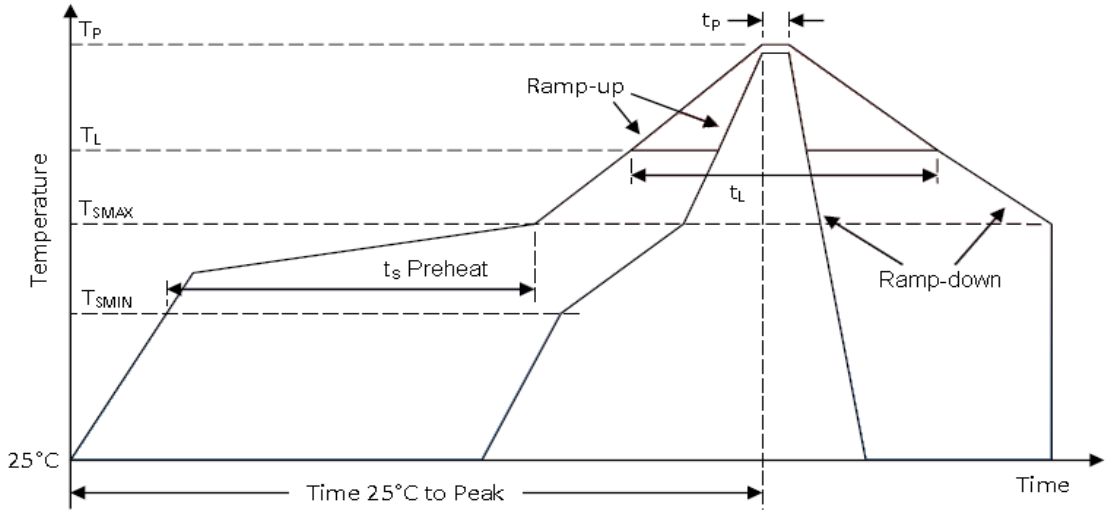
Note:

All dimensions are in millimeter(mm).

Tolerance：+/-0.1mm unless otherwise specified.

Weight：0.02±10%g

5. Reflow Guarantee



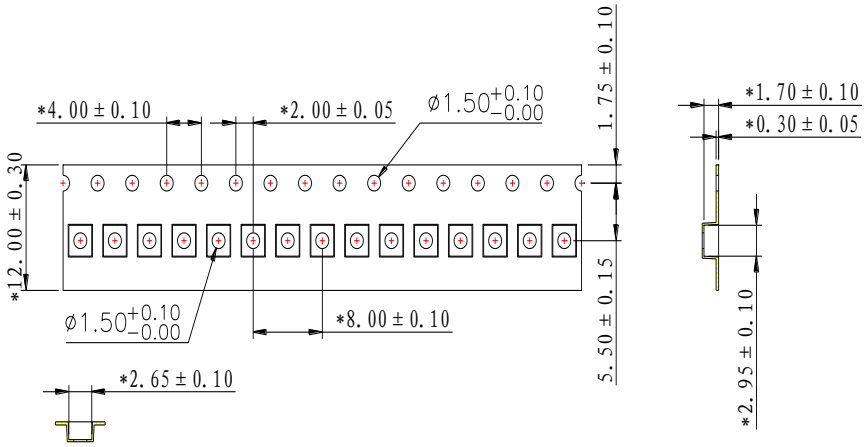
Profile Feature	Pb-Free
Average Ramp-up rate (T_{SMAX} to T_P)	3℃/second max.
Preheat Temperature Min (T_{SMIN}) Temperature Max (T_{SMAX}) Time (T_{SMIN} to T_{SMAX}) (t_S)	150℃ 200℃ 60-180 seconds
Time maintained above: Temperature (T_L) Time (t_L)	217℃ 60-150 seconds
Peak Temperature (T_P)	260℃
Time within 5℃ of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down rate(T_P to T_{SMAX})	6℃/second max
Time 25℃ to Peak Temperature	8 minutes max

Notes:

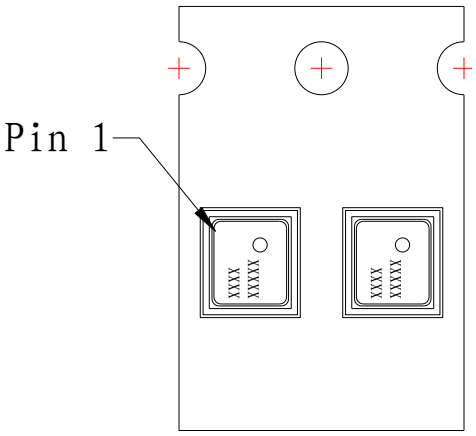
1. Vacuuming over acoustical hole of the microphone is not allowed, because the Devices can be damaged by vacuum.
2. Washing the board after reflow process is not allowed, because board washing and Cleaning agents can damage the device. A device should not be exposed to ultrasonic processing or cleaning.
3. Recommended number of reflow is no more than 5 times.

6. Packaging Specifications

6.1. Tape Specification

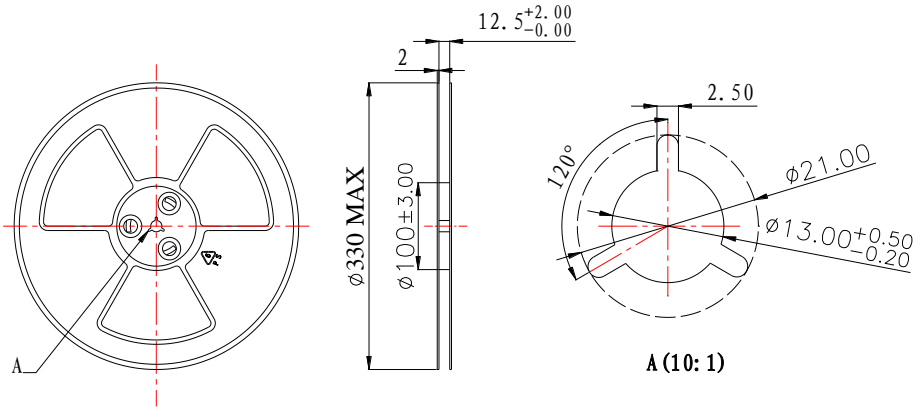


Line	Character	Description
1	XXXXX	Unique Trace Code
2	LL	Identify Code
3	Y	Year
4	M	Month

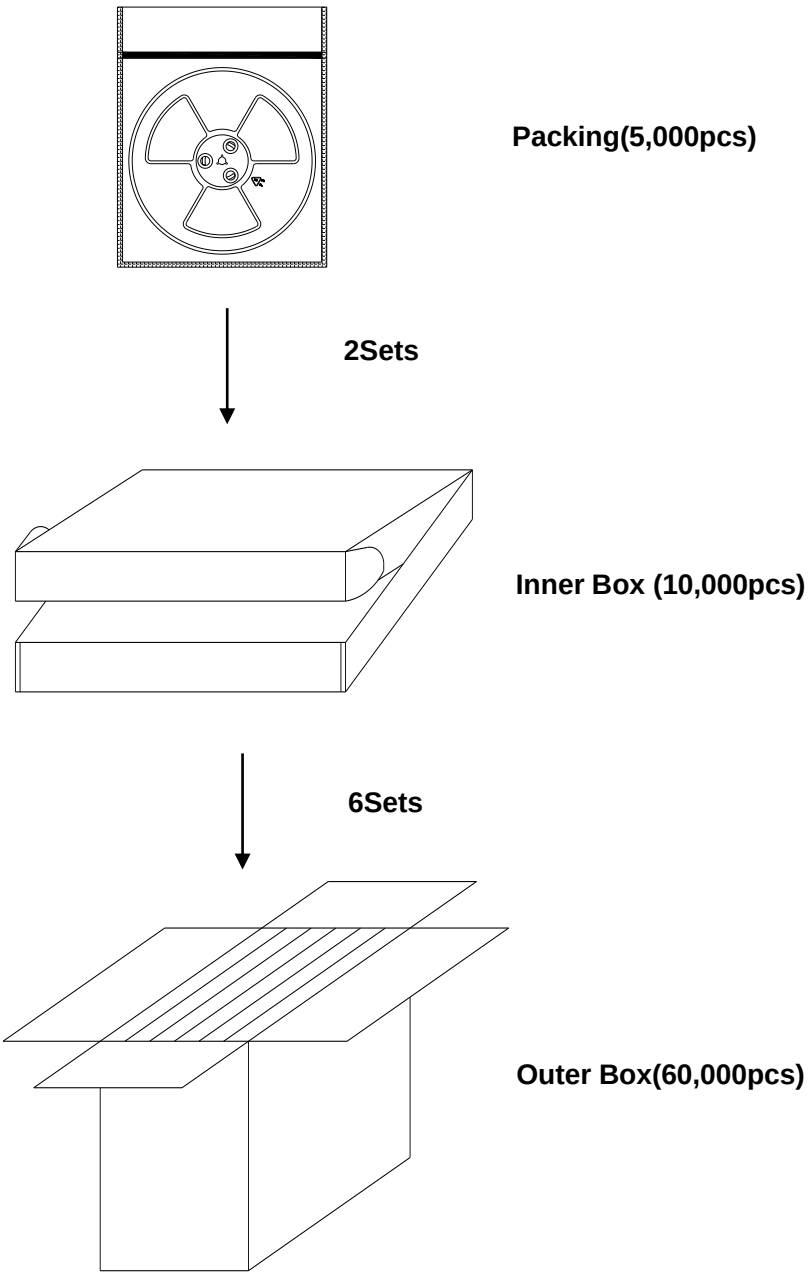


6.2. Reel Dimension

13" reel dimensions (unit:mm)



6.3. The Content of Box(13" reel)



Qty/ Reel	Qty/ One Inner Box	Qty/ Outer Box（Six Inner Box）
5,000 pcs	10,000 pcs	60,000 pcs
Φ330mm	355×340×45mm	365×290×370mm

7. VERSION HISTORY:

Version	Description	Date
1.0	Initial release	2019.10
1.1	Update the LOGO	2022.03