Technical Specification for Product

APPROVAL SHEET

CUSTOMER :

ITEM :

FREQUENCY :

PART NUMBER :

APPENDIX :

	Inspector	reviewer	reviewer	Approver
Approval				

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MCXO M936 Series

Feature List

1. Output

- Frequency Range 1.25MHz ～700MHz

Common Frequencies						
10.00MHz	12.00MHz	12.80MHz	13.00MHz	15.00MHz	16.32MHz	16.384MHz
18.432MHz	19.20MHz	19.44MHz	20.00MHz	25.00MHz	30.72MHz	32.768MHz
38.88MHz	40.00MHz	77.76MHz	Others			

- Waveform

	Load	Amplitude(dBm)	Peak-Peak(V)	Harmonic	Stray
Sine Wave	50Ω	0	0.6	⩽-30dBc	⩽-70dBc
		5	1.0		
		7	1.4		
Square Wave	15pF	LVTTL, TTL, HCMOS			

2. Frequency Stability (Typical, @10.00MHz)

- Temperature Stability Refer to the table of Stability Selection & Coding Rules
- Short-term Stability 3E-10/s, in stable temperature, without EMI/EMC or other interferences, test at 25°C after power-on for 10 minutes

3. Power Supply @25°C

- Operating Voltage(Optional) 3.3V, 5.0V

4. Current

- Operating Current 5mA～30mA

5. Voltage Control Characteristics

- Linearity ⩽10%
- Slope Positive

6. Phase Noise (Typical @10.00MHz)

- 10Hz -95dBc/Hz
- 100Hz -120dBc/Hz
- 1KHz -138dBc/Hz
- 10KHz -145dBc/Hz
- 100KHz -148dBc/Hz

7. Environment Characteristics

- Operable Working Temperature -40°C～+85°C
- Storage Temperature -55°C～+125°C

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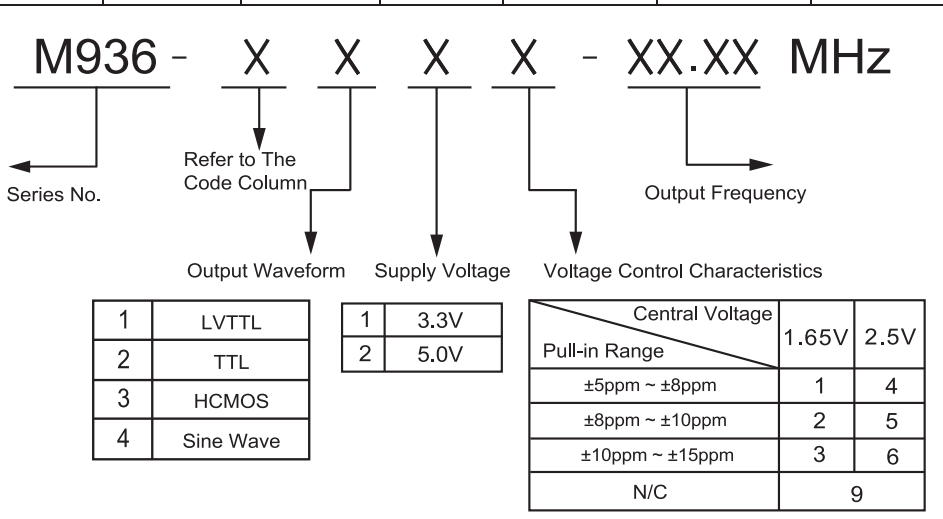
- **Vibration**
  Test Conditions: amplitude: 0.75mm; acceleration: 10g, 10Hz~2000Hz; one cycle per 30 minutes, test 2 hours (in 3 directions X,Y,Z), IEC 68-2-06 Test Fc.

- **Shock**
  100g; 6ms; half sine wave (test in 3 directions, X,Y,Z) IEC 68-2-27 Test Ea.

- **Drop Test**
  To free drop at a height of 100cm to a concrete or steel-made smooth and rigid plane, IEC68-2-32.

Stability Selection & Coding Rules

Temperature(°C)	Stability	Day- aging	Year-aging	Stability vs Voltage	Stability vs Load	Code
0～70	5E-8	2E-8	1E-6	5E-8	5E-8	A
0～70	1E-7	2E-8	1E-6	5E-8	5E-8	B
0～70	2.8E-7	2E-8	1E-6	5E-8	5E-8	C
-20～70	5E-8	2E-8	1E-6	5E-8	5E-8	D
-20～70	1E-7	2E-8	1E-6	5E-8	5E-8	E
-20～70	2.8E-7	2E-8	1E-6	5E-8	5E-8	F
-40～85	5E-8	1E-8	5E-7	5E-8	5E-8	G
-40～85	1E-7	1E-8	5E-7	5E-8	5E-8	H
-40～85	2.8E-7	2E-8	1E-6	5E-8	5E-8	I
-40～85	5E-7	2E-8	1E-6	5E-8	5E-8	J



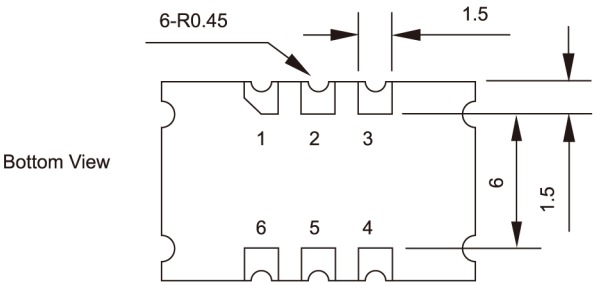
1	LVTTL
2	TTL
3	HCMOS
4	Sine Wave

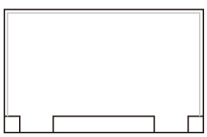
1	3.3V
2	5.0V

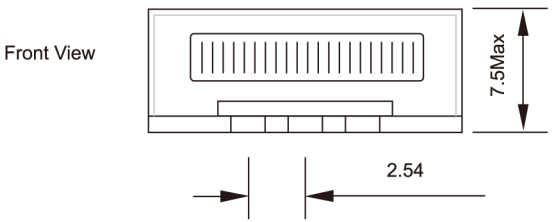
Pull-in Range \ Central Voltage	1.65V	2.5V
±5ppm ~ ±8ppm	1	4
±8ppm ~ ±10ppm	2	5
±10ppm ~ ±15ppm	3	6
N/C	9	

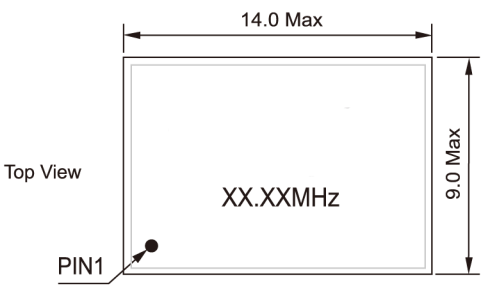
8. Mechanical Structure

Outlines & Pins Function









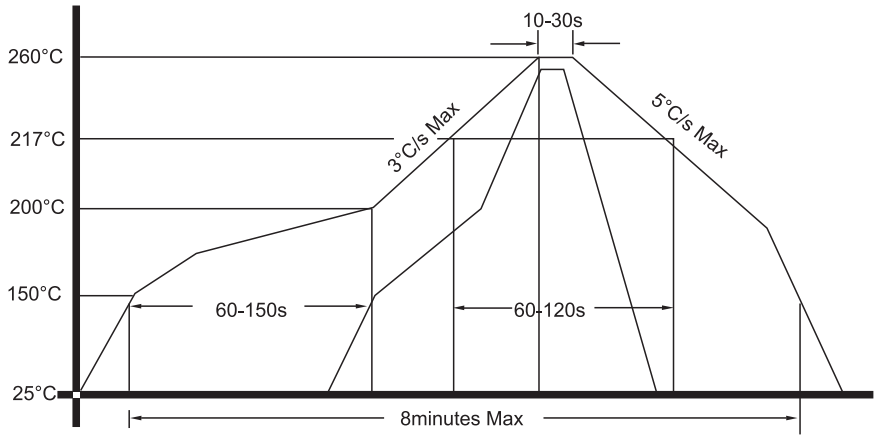
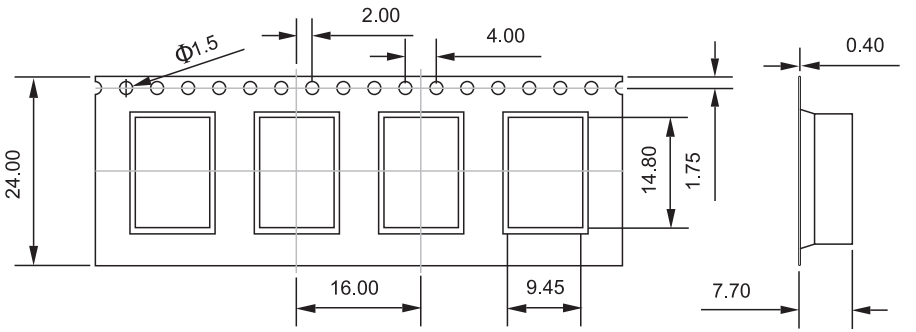
Pins Function

Pin	Function
1	Voltage control (N/C)
2	N/C
3	GND
4	Frequency output
5	N/C
6	Power supply input

*Tolerance ±0.2mm without marking

9. Weight: 1.4g (ref.)

10. Reflow Soldering Curve (RoHS)



11. Package: Tape & reel (mm),