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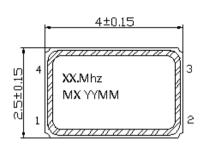


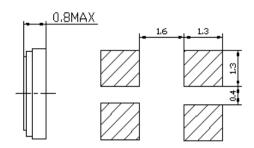
Specifications of Quartz Crystal 4*2.5SMD XN42

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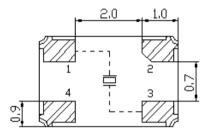
DIMENSION AND MARKING

ELECTRICAL SPECIFICATION





Third Overtone



NOTE: Pin#2 and #4 are connected through cover, in case connected to GND. Frequency mingt be drifted.

Special Instructions:

TYPE		: 4*2.5 SMD CRYSTAL		Special Instruction
Frequency Range (F0)		: 12Mhz to	150Mhz	
Frequency Tolerance (ΔF) (at	t 25 °C)	: ±10ppm	to ±100ppm	Tape and Reel
Frequency Drift (Tc)		: ±10ppm	to ±100ppm	Rohs Compliant
Operating Temperature Range (T0)		: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C} \text{ or } -40^{\circ}\text{C} \sim +85^{\circ}\text{C}$		
Storage Temperature Range		: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C} \text{ or } -55^{\circ}\text{C} \sim +125^{\circ}\text{C}$		
Aging (25 °C)		: ±3ppm or ±5ppm Max / first year		
Shunt Capacitance (C0)		: 7pF Max		
Drive Level (DL)		: 10μW Typical		
Insulation Resistance (Ri)		: 500MΩN	Iin / 100V±15V D.C.	1
Load Capacitance (CL)		: Given by	the customer]
Equivalent Series Resistance (1	ESR)and Mode	e of Oscillat	tion (Mode)	1
Frequency Range (Mhz)	ESR (Ω)		Mode	
12.000-16.000	80 Max		Fundamental	
16.000-20.000	60 Max		Fundamental]
20.000-24.000	50 Max		Fundamental]
24.000-60.000	40 Max		Fundamental	

80 Max

NOTE:

80.000-150.000

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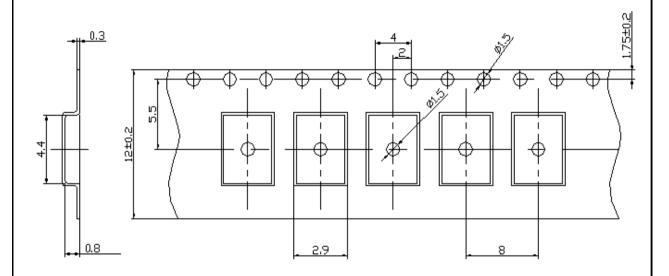
RELIA	ABILITY		
NO	ITEM	CONDITIONS	BASIS OF VERDICT
1	DROP	High:100cm;Thickness:3cm;3tims	Δ FL ±5ppm Max Δ RS 5 Ω Max or ±10% Max (whichever is largrer)
2	VIBRATION	Frequency:10~57.7Hz: Amplitude:±0.75mm Frequency:57.7Hz~500Hz: acceleration rate:98m/s ² Cycle time:10-500-10Hz: 15min Direction:X,Y, Z Duration: 2 h/direction	$\Delta FL \pm 5$ ppm Max $\Delta RS 5\Omega$ Max or $\pm 10\%$ Max (whichever is largrer)
3	TEMPERATURE SHOCK	-40°C±2°C(30min) 85°C±2°C(30min);For 10 cycles	ΔFL ±5ppm Max ΔRS 5Ω Max or ±10% Max (whichever is largrer)
1	HUMIDITY	Temp:40°C±2°C;Humidity:90-95%;Times:96h	ΔFL ±5ppm Max ΔRS 5Ω Max or ±10% Max (whichever is largrer)
5	COLD RESISTANCE	Temp:-40°C±2°C;Times:96h	ΔFL ±5ppm Max ΔRS 5Ω Maxor ±10% Max (whichever is larger)
ó	HEAT RESISTANCE 1	Temp:100°C±2°C;Times:96h	$\Delta FL \pm 5ppm$ Max $\Delta RS 5\Omega$ Max or $\pm 10\%$ Max (Whichever is larger)
7	HEAT RESISTANCE 2	Temp:155°C±2°C;Times:2h	Δ FL ±5ppm Max Δ RS 5 Ω Max or ±10% Max (whichever is larger)
3	REFLOW	270°C±5°C 150°C±5°C 120sec 10secmax CYCLE TIME: 200sec Max.	ΔFL ±5ppm Max ΔRS 5Ω Max or ±10% Max (whichever is largrer)
)	SALT SPRAY	Salt density:5%;Temp:35°C;Times:96h	$\Delta FL \pm 5 ppm Max$ $\Delta RS 5\Omega Max or \pm 10\% Max$ (whichever is largrer)
0	AGING	Temp:85°C;Times:30days	$\Delta FL \pm 10$ ppm Max $\Delta RS 5\Omega$ or $\pm 10\%$ Max (whichever is largrer)
1	LEAKAGE	He(0.6~0.65MPa):10min	3*10 ⁻⁹ Pa.m ³ /s Max
12	SOLDER	Temp:235°C±5°C	the solder immersion surface 90% Min

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Crystal 4*2.5SMD XN42

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Tape



Reel

