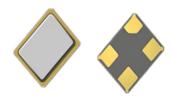


JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD SMD2016-4 Crystal Resonator

7D037400M01

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 37.400MHz which will be used in crystal oscillator applications.



2. Construction:

2.1 Type of Quartz Resonator: SMD2016-4pads

3. Electrical Characteristics

3.1	Nominal Frequency(f):	37.400MHz
3.2	Load Capacitance(C _L):	12pF
3.3	Frequency Tolerance(△f/f):	±10ppm
3.4	Frequency Temperature Stability:	±20ppm
3.5	Resonance Resistance(ohm):	40 ohms Max

3.6 Osc mode: Fundamental mode

3.7 Shunt Capacitance(C_0): 2pF Max

3.8 Drive Level(D_L): 100 μ W Max

3.9 Operating Temperature Range(T_{OPR}): -20 to + 70°C

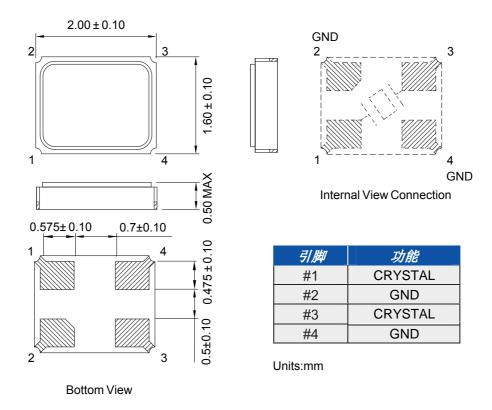
3.10 Storage Temperature Range(T_{STG}): -55 to + 125°C

3.11 Insulation Resistance(IR): >500M ohms

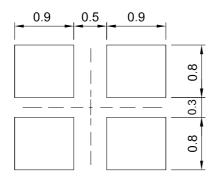
3.12 Aging($\triangle f_A$): ±3ppm/Year Max

	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times	Frequency change:≤±5ppm Rr as specification
3.	Shake characteristics	Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
4.	Humidity characteristics	+40±2°C & 90%~95% R.H. 250 hours	Frequency change:≤±5ppm Rr as specification
5.	Low temperature characteristics	-40±2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
6.	High temperature characteristics	+85±2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
7.	Temperature cycling	-30±3℃/30±3 min~+85±2℃/30±3min, 5 cycles	Frequency change:≤±5ppm Rr as specification
8.	Refluence examination	200°C Max150°C 1.Max 180sec 2. Max 10 sec 3.Max 80 sec 4.Max 90 sec	Frequency change:≤±5ppm Rr as specification

Package Outline Dimensions



Suggested Pad Layout



Units:mm

Packing Specification

