

Customer Code : _____

DATASHEET

DAPU P/N: **DPAU37400001**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.02.06			

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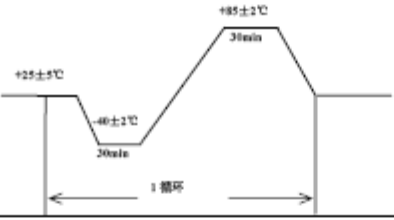
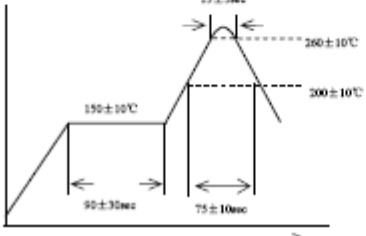


1、Electrical Parameters

MODEL: DPAU37400001							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	37.40			MHz	
2	Model		SX-3225				
3	Oscillation Mode	AT	Fundamental				
4	Load		15			pF	
5	Norm Temperature Frequency Tolerance		-10		+10	$\times 10^{-6}$	
6	Temperature Frequency Frequency		-20	~	+70	$\times 10^{-6}$	
7	Storage Temperature	T-stg	-40	~	+85	°C	
8	First Year Aging	F-aging1	-3		+3	$\times 10^{-6}$	25°C
9	Drive Level				100	uW	
10	Shunt Capacitance				0.5	pF	
11	Equivalen Series Resistance				40	Ω	
12	Insulation Resistance	DC			200	V	



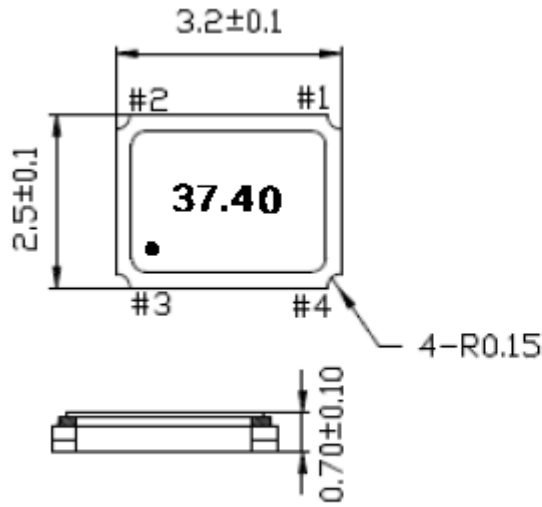
2. Reliability Text

序号 NO.	试验项目 Test Item	试验条件 Condition of Test	标准要求 Performance Requirements
1	跌落 Drop	从75cm位置高度,自由跌落在木板上,连续3次 [Form 75cm height 3 times on 3cm hard wooden floor]	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%
2	振动 Vibration	振动频率(Frequency) : 10~55 Hz 全振幅(Amplitude) : 1.5mm±15% 时间(Period) : 每个方位三面(X、Y、Z)各振动2小时[3 direction (x, y, z) each for 2 hrs]	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%
3	冷热冲击 Temperature Cycle	晶体放入试验箱中,高低温循环100次[The crystal is put into the test box, and the high and low temperature cycle is 100 times] 低温为-40±3°C保持30分钟,高温85±2°C保持保持30分钟,高、低温每3分钟变换一次[The low temperature is kept at -40±3°C for 30 minutes, and the high temperature is maintained at 85±2°C for 30 minutes, and the high and low temperature are changed every 3 minutes.] 	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%
4	气密性(大漏) Sealing (Gross Leak)	气密检测仪(Sealing Check Equipment) 试验压力(Test Pressure):0.2 Mpa	漏率标准(leak rate) : ≤1×10 ⁻⁴ Pa.m ³ /s
5	气密性(细漏) Sealing (Fine leak)	氦气气压标准 : 5~5.5 kgf / cm ² , 氦气加压时间 : 2 小时 [Helium bombing 5~5.5 kgf / cm ² for 2 hours.]	漏率标准(leak rate) : ≤1×10 ⁻⁹ Pa.m ³ /s
6	耐焊接热 Resistance to soldering heat	波峰温度(Peak Temp) : 260° C ± 10° C 时间(Time) : 15s±5sec 	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%



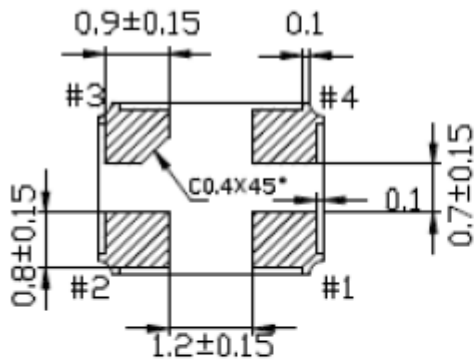
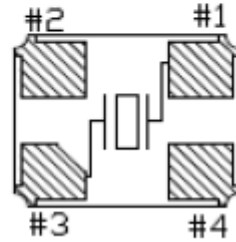
7	沾锡试验 Solder bility	温度(Temperature) : 260° C ± 10° C 浸泡时间(Soaking Time) : 3s±1sec	引脚沾锡后覆盖面积达 90%以上[A new uniform coating of solder shall cover min mun 95% of the surface being immersed.]
8	高温高湿 High Temp. & Humidity	温度(Temperature) : 60° C ± 2° C 湿度(Humidity) : 90%~95% 保持时间(Hold time): 500 hours	1. 试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15% 2. 制品表面不可生锈[No rust on the surface of the product.]
9	高温试验 High Temperatur e Storage	高温温度(Temperature) : 85° C ± 2° C 时间(Hold time): 500 hours	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%
10	低温试验 Low Temperatur e Storage	低温温度(Temperature) : -40° C ± 2° C 时间(Hold time): 500 hours	试验前后,频率变化不超过±5ppm,电阻变化不超过±15% (1).Frequency Change:±5ppm (2).Resistance:±15%
11	盐雾 Salt Mist	盐雾浓度 (Salt mist concentration) : 5% 温度(Temperature) : 25°C 时间(Hold time):36 hours	制品表面不可生锈[No rust on the surface of the product.]

3、Mechanical Structure(mm)

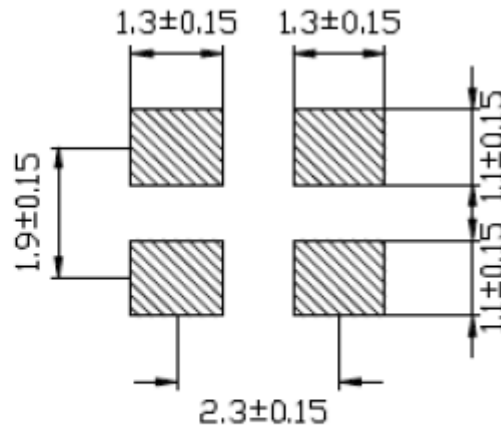


PIN CONNECT	
1,3	Crystal
2,4	GND

<TOP VIEW>



LAND PATTERN(REFERENCE)



PIN CONNECT : #1,#3(Crtstal) #2,#4(GND)

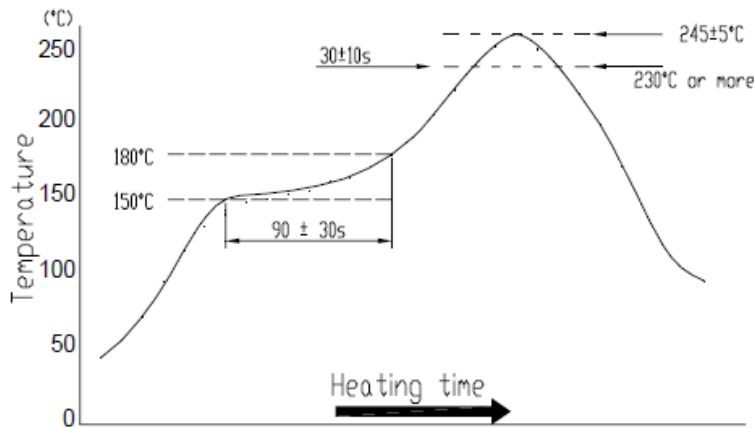
unit:mm

4、Reflow Soldering Curve (RoHS)



Solder profile

Peak: $245\pm 5^{\circ}\text{C}$ Soldering zone: 230°C or more, $30\pm 10\text{s}$. Pre-heating zone 1: $150\sim 180^{\circ}\text{C}$, $90\pm 30\text{s}$



Temperature profile for reflow soldering

5、Package: Tape & Reel (mm)

