

Travelling Merchant: _____

DATASHEET

Standard: DP8Z27000002

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2017.10.27			

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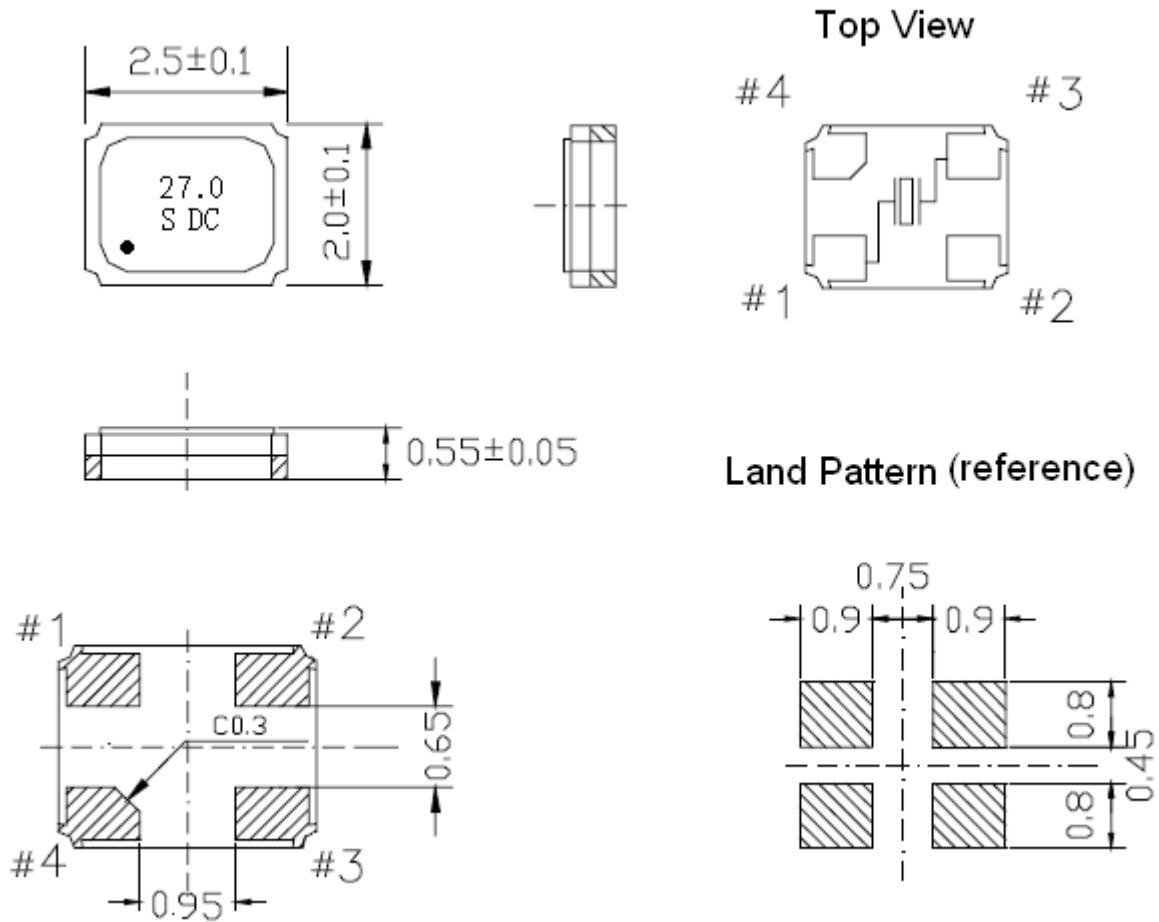


1、Electrical Parameters

MODEL: DP8Z27000002							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	27.00			MHz	
2	Oscillation Mode	-	Fundamental			-	
3	Load Capacitance	CL	20			pF	
4	Frequency Tolerance	-	-10	-	+10	$\times 10^{-6}$	at 25°C $\pm 2^\circ\text{C}$
5	Frequency Stability	-	-20	-	+20	$\times 10^{-6}$	Over Operating Temp. Range (Reference 25°C)
6	Operating Temperature Range	-	-40	~	+85	°C	
7	Storage Temperature Range	-	-40	~	+85	°C	
8	Aging	-	-3	-	+3	$\times 10^{-6}$	Per Year
9	Drive Level	DL	-	-	100	uW	
10	Series Resonant Resistance	Rr	-	-	50	Ω	
11	Shunt Capacitance	C0	-	-	5	pF	
12	Insulation Resistance	IR	500	-	-	M Ω	at DC 100V
13	Reflow shift		-5		+5	$\times 10^{-6}$	At 265 $\pm 2^\circ\text{C}$ *10sec
14	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.					
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.					
15	Moisture Sensitivity Level	Level 2.					
16	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z) .IEC 68-2-06 Test Fc.					
17	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z),IEC 68-2-27 Test Ea/Severity 50A.					

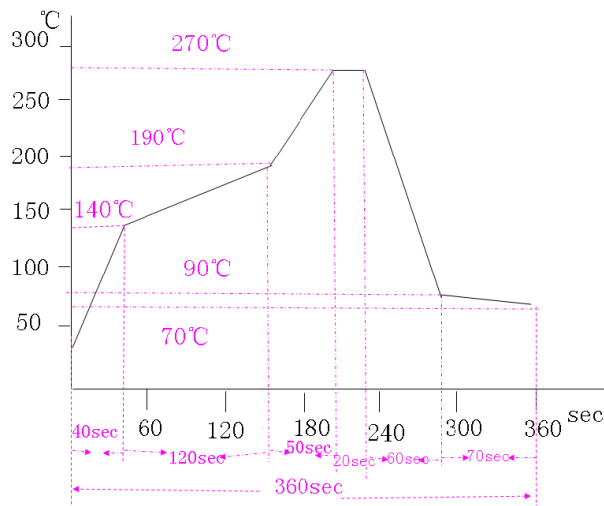


2、Mechanical Structure(mm)



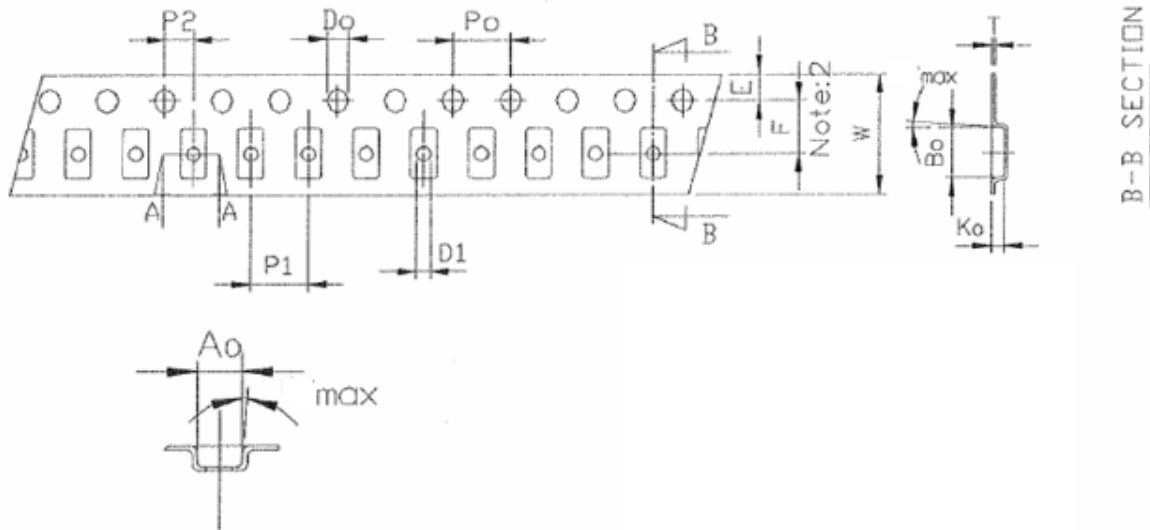
Note1: Tolerance ± 0.2 mm

3、Reflow Soldering Curve (RoHS)





4、 Package: Tape & Reel (mm)



Dimension PKG Type	Unit : mm						
	A0	B0	K0	T	W	E	F
2520(8mm)	2.25±0.1	2.70±0.1	0.75±0.1	0.25±0.05	8±0.3	1.75±0.1	3.50±0.1
	P1	P2	D1	D0	P0		
	4±0.1	2±0.1	1±0.1	1.55±0.05	4±0.1		

Standard Reel Quantity is 3,000 pcs per reel.

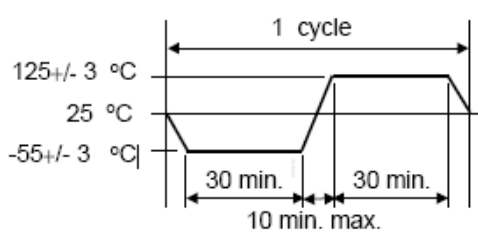


5、 Reliability specifications

1.MECHANICAL ENDURANCE

No.	Test Item	Test Methods	
1	Drop Test	150 cm height, fall freely onto stainless plate 3 times.	JIS C6701
2	Shock Test	150g/150cm Height,3times in the direction of $\pm x$, $\pm y$, $\pm z$ on concrete floor	IEC-68-02-27
3	Mechanical Shock	Device are shocked to half sine wave (1000 G) three mutually pendicular axes each 3 times. 1.0m sec. duration time	MIL-STD-202F
4	Vibration	Frequency range 10 ~ 55 Hz Amplitude 1.52 mm Pendicular axes each test time 2 hours (x,y,z Axis) Total test time 6 hours	MIL-STD-883E
5	Gross Leak	Standard Sample For Automatic Gross Leak Detector Test Pressure 2kg/cm2	MIL-STD-883E
6	Fine Leak	Helium Bombing 4.5kgf/cm2 for 2 hr	MIL-STD-883E
7	Solderability	Temperature 215 °C +/- 5 °C Immersing depth 0.5 mm minimum Immersion time 10 +/- 0.5 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)	MIL-STD-883E
8	Resistance To Soldering Heat	Pre-heat temperature 125 °C Pre-heat time 60 ~ 120 sec. Test temperature 260 +/- 5 °C Test time 5 +/- 1 sec.	MIL-STD-202F

2.ENVIRONMENTAL ENDURANCE

No.	Test Item	Test Methods	
9	High Temp. Storage	+ 125 °C +/- 3 °C for 500 +/- 12 hours	MIL-STD-883E
10	Low Temp. Storage	- 40 °C +/- 3 °C for 500 +/- 12 hours	
11	Thermal Shock	Total 100 cycles of the following temperature cycle 	MIL-STD-883E
12	High Temp&Homidity	85°C±3°C, RH 85%,500Hrs	JIS C5023
13	Pressure Cooker Storage	120 +/- 3°C, RH100%, 2 bar, for 240 hours	JIS C6701