

Travelling Merchant: _____

DATASHEET

Standard: DP5X32768001

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.04.03			

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1、 Electrical Parameters

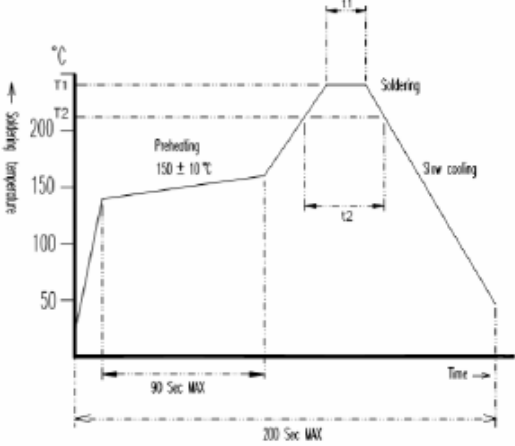
MODEL: DP5X32768001							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	32.768			KHz	
2	Oscillation Mode	-	Fundamental			-	
3	Load Capacitance	CL	12.5			pF	
4	Frequency Tolerance	-	-20		+20	$\times 10^{-6}$	at 25°C $\pm 3^\circ\text{C}$
5	Frequency Stability	-	-0.02	-0.03	-0.04	$\times 10^{-6}$	Over Operating Temp. Range (Reference 25°C)
6	Operating Temperature	-	-40		+85	°C	
7	Storage Temperature Range	-	-55		+125	°C	
8	Aging	-	-3		+3	$\times 10^{-6}$	+25°C, First year
9	Drive Level	DL			1.0	uW	
10	Effective Resistance Rr	Rr			70	K Ω	
11	Motional capacitance	C1	3	3.9	4.8	fF	
12	Shunt Capacitance	C0	0.7	1.1	1.5	pF	
13	Insulation Resistance	-	500	-	-	M Ω	at DC 100V
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.					



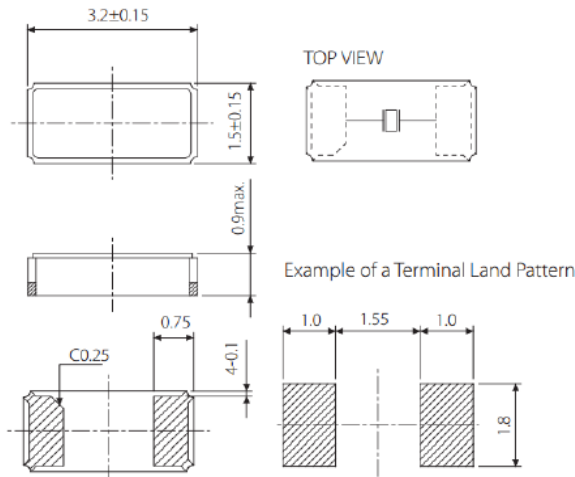
2、 Reliability Specification

Test Item	Condition of test	Performance Requirements
Tensile Strength Termination	The unit's lead wire should withstand a tensile force applied to the termination in the direction of its draw-out axis of up to 1000g maintained as is for 10±2s	There should be no abnormalities detected on the unit
Solder ability	The lead is immersed in a 260±5℃ solder bath within 2±0.5 seconds.	A new uniform coating of solder shall cover minimum 95% of the surface being immersed.
Vibration	Endurance condition by a frequency sweep shall be made. The entire frequency range from 10HZ to 60HZ and return to 10HZ, shall be transverse in 1min. Amplitude(total excursion):1.5mm this motion shall be applied for a period of 2h each of 3 mutually perpendicular axes(a total of 6h)	(1).Frequency Change:±5ppm (2).Resistance:±15%
Drop	Form 100cm height 3 times on 3cm hard wooden floor	(1).Frequency Change:±5ppm (2).Resistance:±15%
Shock	Peak acceleration:981m/s ² duration of the pulse :6ms three successive shocks shall be applied in both direction of 3 mutually perpendicular axes(a total of 18 shocks)	(1).Frequency Change:±5ppm (2).Resistance:±15%
Damp heat	The unit shall be stored at a temperature of 40±2℃with relative humidity of 90%to95% for 48h, then it shall be subjected to standard atmospheric conditions for 1 ~ 2h after which measurement shall be made.	(1).Frequency Change:±5ppm (2).Resistance:±15%
Dry heat	The unit shall be stored at a temperature of 100℃±5℃ for 24h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.	(1).Frequency Change:±5ppm (2).Resistance:±15%
Cold	The unit shall be stored at a temperature of -40℃±5℃ for 48h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.	(1).Frequency Change:±5ppm (2).Resistance:±15%
Aging	The unit shall be stored at a temperature of 85℃±5℃ for 7d then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.	Refer to verdict specification



<p>Temperature cycling</p>	<p>The unit shall be subjected to 5 successive change of temperature cycles, each as show in table below,then it shall be subjected to standard atmospheric conditions for 1 ~ 2h after which measurement shall be made</p> <table border="1" data-bbox="405 416 1000 685"> <thead> <tr> <th></th> <th>Temperature</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40°C±3°C</td> <td>30min</td> </tr> <tr> <td>2</td> <td>Standard atmospheric conditions</td> <td>Within 30s</td> </tr> <tr> <td>3</td> <td>100°C±3°C</td> <td>30min</td> </tr> <tr> <td>4</td> <td>Standard atmospheric conditions</td> <td>Within 30s</td> </tr> </tbody> </table>		Temperature	Duration	1	-40°C±3°C	30min	2	Standard atmospheric conditions	Within 30s	3	100°C±3°C	30min	4	Standard atmospheric conditions	Within 30s	<p>Refer to verdict specification</p>
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3	100°C±3°C	30min															
4	Standard atmospheric conditions	Within 30s															
<p>Sealing</p>	<p>The crystal filter unit shall be immersed in a industry alcohol for 5±0.5 minutes then 25±3°C 1~2 Hr before testing</p>	<p>Insulation Resistance>500MΩ</p>															
<p>Resistance to soldering heat</p>	 <table border="1" data-bbox="405 1256 986 1312"> <thead> <tr> <th>Application/temperature</th> <th>Time</th> <th>T1 / t1</th> <th>T2 / t2</th> </tr> </thead> <tbody> <tr> <td>Lead Free</td> <td>260±5°C / 10 Sec Max</td> <td></td> <td>225Min / 60 Sec Max</td> </tr> </tbody> </table> <p>Reflow soldering cure see the chart.</p>	Application/temperature	Time	T1 / t1	T2 / t2	Lead Free	260±5°C / 10 Sec Max		225Min / 60 Sec Max	<p>Refer to verdict specification</p>							
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3、 Mechanical Structure(mm)

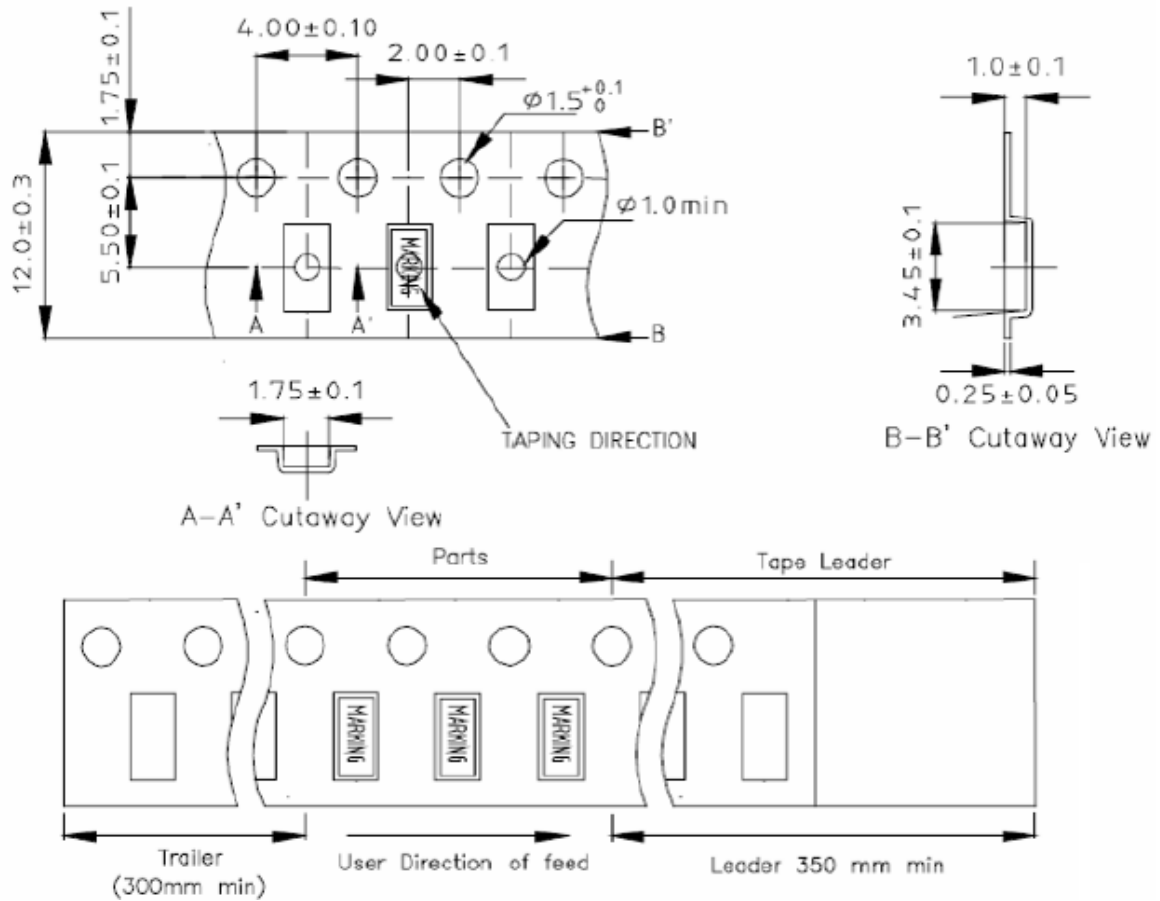


Note1: Tolerance ±0.2mm



4、 Package: Tape & Reel (mm)

1. CARRIER TYPE



2. REEL : 3000PCS

