

Travelling Merchant: _____

DATASHEET

Standard: DP4X2600001Remarks: AEC-Q200 Compliant

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.06.02			

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1、 Electrical Parameters

MODEL: DP4X26000001							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	26.000			MHz	
2	Oscillation Mode	-	Fundamental				
3	Load Capacitance	LC	8			pF	
4	Frequency Tolerance	FL	-10		+10	$\times 10^{-6}$	@25°C +/-3°C
5	Frequency Stability	TC	-12		+10	$\times 10^{-6}$	-30°C~+85°C
6	Over Operating		-30		+35	$\times 10^{-6}$	-40°C~+105°C
7	Temp.Range (Ref.to 25°C)		-80		+80	$\times 10^{-6}$	-40°C~+125°C
8	Operating Temperature	-	-40		+125	°C	
9	Storage temperature range	-	-40		+125	°C	
10	Aging	-	-1		+1	$\times 10^{-6}$	1st year
11		-	-1.5		+1.5	$\times 10^{-6}$	2 nd years
12		-	-2.5		+2.5	$\times 10^{-6}$	5 years
13		-	-5		+5	$\times 10^{-6}$	10 years
14	Drive Level	DL			100	μW	
15	Equivalent Series Resisitance	ESR			50	Ω	
16	SPU R		500			Ω	F0+/-500KHz
17	Insulation R	IR	500			MΩ	DC100V
18	Frequency Drift After Reflow		-2		+2	$\times 10^{-6}$	After two reflows
19	Pullability	TS		10		$\times 10^{-6}$ pf	
20	Quality Factor	Q	75			K	
21	DLD2	-			2.5	Ω	DLD SWEEP:0.01~100μW Step:15
22	DLDH2	-			1.5	Ω	
23	FDDL	-			6	$\times 10^{-6}$	
24	FDDLH	-			0.7	$\times 10^{-6}$	
25	Inflection point	Ti	29.0	30.5	32.0	°C	
26	Inflection point	T0		30.5		°C	
27	First-order curve fitting parameter	A1	-0.4		-0.1	$\times 10^{-6}/^{\circ}\text{C}$	
28	Second-order curve fitting parameter	A2	-4.5		+4.5	$10^{-4} \times 10^{-6}/^{\circ}\text{C}^2$	
29	Third-order curve fitting parameter	A3	8.5		11.5	$10^{-5} \times 10^{-6}/^{\circ}\text{C}^3$	
30	Full Cycle Temperature Hysteresis	-	-0.5		+0.5	$\times 10^{-6}$	Note5
31	5 deg.C small Cycle Temperature Hysteresis	-	-0.1		+0.1	$\times 10^{-6}$	Note6



32	Full Cycle Frequency stability slope	-	-50		+50	$\times 10^{-9}/^{\circ}\text{C}$	Note7
33	5 deg.C Small Cycle Frequency stability slope	-	-50		+50	$\times 10^{-9}/^{\circ}\text{C}$	Note8

Notes:

1. Ultrasonic cleaning

General cleaning solutions or ultrasonic cleaning method may be used to clean our products. However, under certain circumstances, ultrasonic cleaning machine could generate resonance at the oscillation frequency of our products and thus deteriorate the electrical characteristics in devices, and even damage the overall structure of devices. Therefore, verification test is recommended before cleaning.

2. Ultrasonic welding

Avoid mounting and processing by Ultrasonic welding this method has a possibility of an excessive vibration spreading inside the crystal products and becoming the cause of characteristic deterioration and not oscillating

3. Storage temperature description

Storage Temperature is only for the product itself, the temperature for the packing material is 5°C~40°C.

4. Cubic curve fitting calculation formula:

$$f(t) = A_3(T - T_0)^3 + A_2(T - T_0)^2 + A_1(T - T_0) + A_0$$

5. Full Cycle Temperature

Temp.range and resolution:-30°C to 85°C per 1°C Temp.rate ~1.0°C/min
Test flow: 25°C(1)->-30°C->85°C->25°C(2) 25°C(1)freq.drift subtract 25°C(2) freq.drift

6. 5 deg.C small Cycle

Temp.range and resolution:-30°C to 85°C per 0.5°C Temp.rate ~1.0°C/min
Test flow: any 5°C cycle ex.25°C(1)->30°C->25°C(2), 25°C(1) freq. drift subtract 25°C(2) freq. drift)

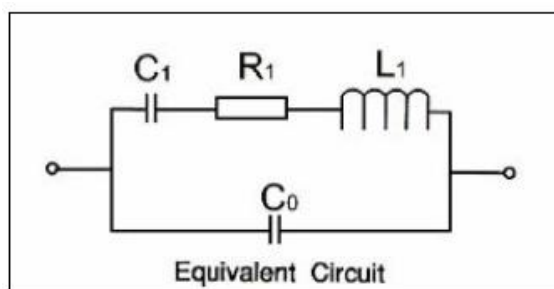
7. Full Cycle Frequency stability slope

Temp.range and resolution:-30°C to 85°C per 1.0°C Temp.rate ~1.0°C/min
Difference from fifth-order curve fit

8. 5 deg.C Small Cycle

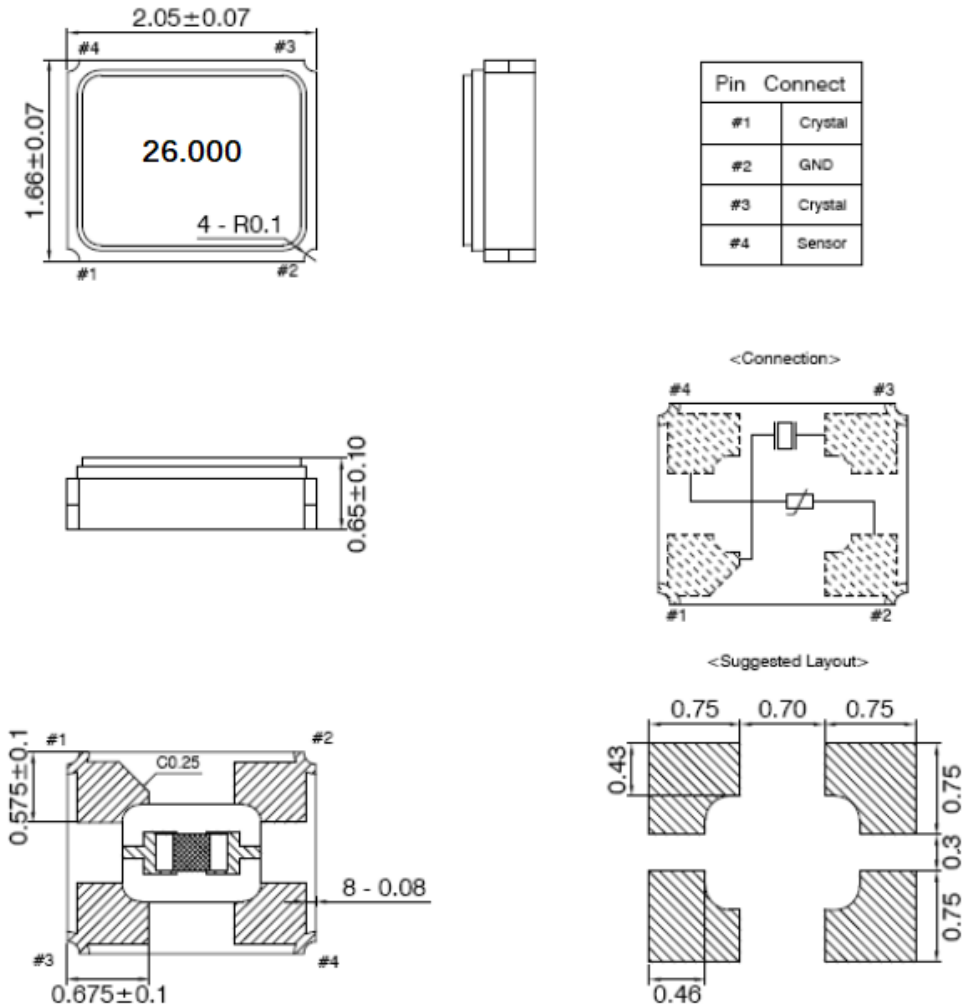
Temp.range and resolution:-30°C to 85°C per 0.5°C Temp.rate ~1.0°C/min
Difference from fifth-order curve fit

2、Equivalent Circuit

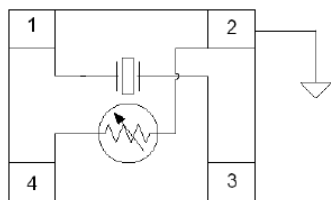




3、 Mechanical Structure(mm)



4、 Thermistor Specifications

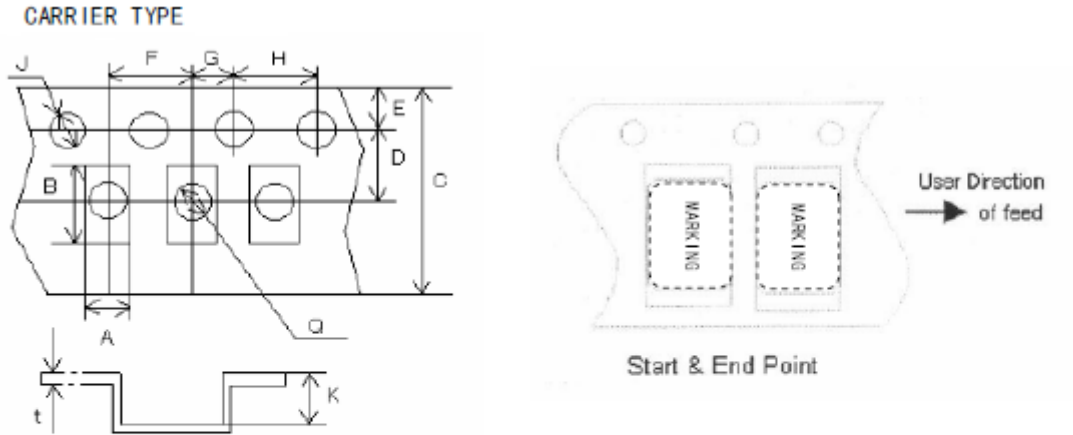


Size : 0.6mmx0.3mm

Parameter	Min	TYP.	Max	Unit	Condition
Operating temperature	-40	-	125	°C	
Storage temperature	-40	-	125	°C	
Resistance	-	100	-	KΩ	25°C
B-constant	-	4250	-	K	25-50°C
Tolerance	-1.0	-	+1.0	%	

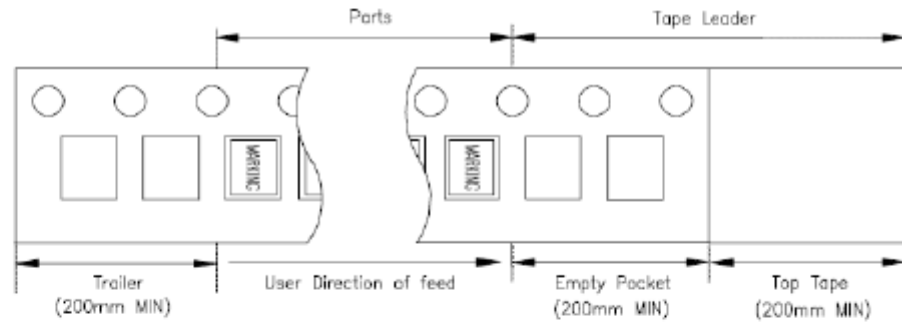


5、 Packing(mm)

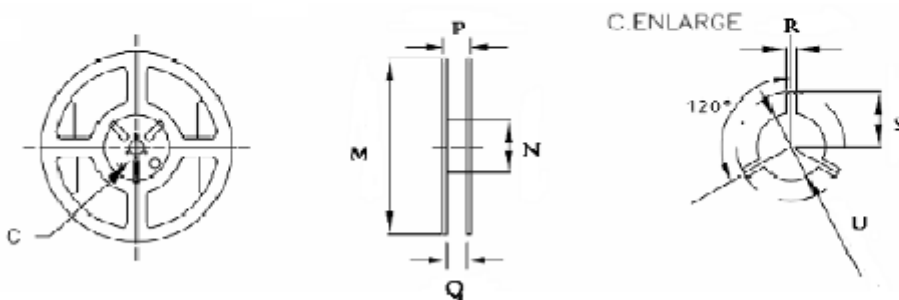


A	B	C	D	E	F	G	H	J	K	t
2.30	1.90	8.0	3.5	1.75	4.0	2.0	4.0	1.55	0.65	0.25

REMARK:



REEL: 3000 PCS/Reel



M	N	P	Q	R	S	U
178.0	60.2	11.5	8.0	2.5	11.0	13.0