

Travelling Merchant: _____

DATASHEET

Standard: DP7W30720001

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.05.17			

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1、Electrical Parameters

MODEL: DP7W30720001							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	30.72			MHz	
2	Oscillation Mode	-	Fundamental				
3	Load Capacitance	CL	15			pF	
4	Output Type		CMOS				
5	Output Voltage High		0.9VDD			V	
6	Output Voltage Low				0.1VDD	V	
7	Total Stability	-	-60		+60	ppm	inclusive of frequency tolerance@25°C ±10ppm and frequency stability vs.operating temperature range and voltage variance and 10 years aging.
8	Storage Temperature Range	-	-55	~	+125	°C	
9	Operating Temperature Range	-	-40	25	+105	°C	
10	Rise and Fall Time	Tr/Tf			4	ns	10%~90%Output Swing
11	Supply Voltage	VDD	2.97	3.3	3.63	V	
12	Current Consumption	Icc		2.5	10	mA	
13	Aging	-	-3		+3	ppm	1st Year
14	Duty Cycle		45	50	55	%	
15	Phase Jitter	RMS			1	ps	12kHz to 20MHzBW
16	Start-up Time				1	ms	To 90% of Final Amplitude
17	Control Voltage	VC	0		3.3	V	
18	APR		±130			ppm	
19	Modulation Band Width	Fc	15	20		KHZ	
20	VC Pin Input Impedance		5			MΩ	
21	Linearity		-10		10	%	Vc=0 to 3.3V

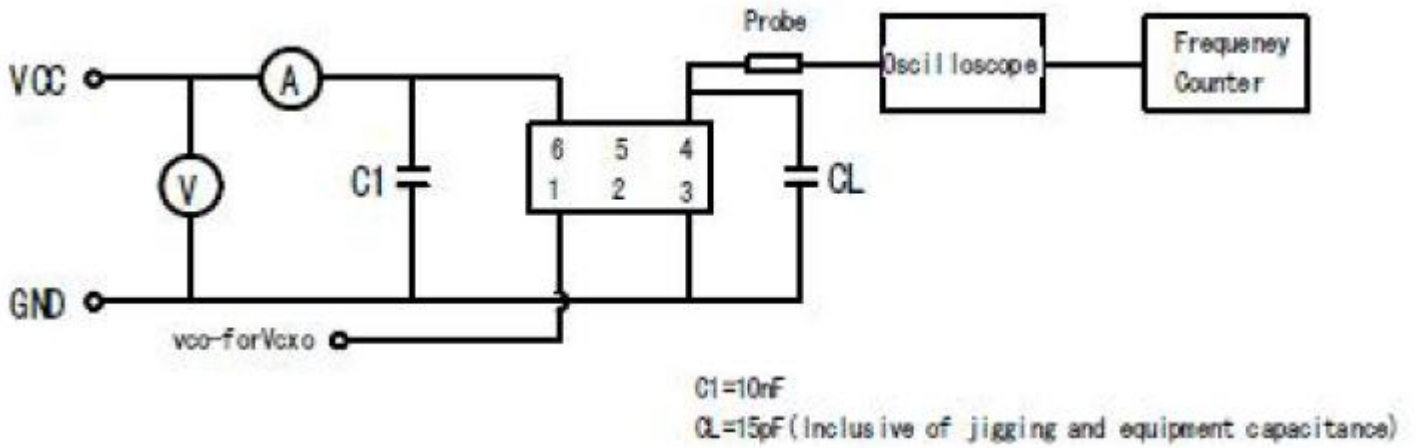


3、Reliability test

	Item	Condition	Reference	Specifications												
10.1	Solderability	Solder bath temperature:260℃ , dwell time:5 seconds, Solder: 100% tin	IEC88-2-20:1979	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.												
10.2	Resistance to soldering heat	Solder temperature 260+/-3℃ ,Immersion time:10 S Solder bath composition:100% tin	IEC88-2-58:1989	$\Delta f \leq \pm 5 \text{ppm}$												
10.3	Vibration	The entire frequency range: 10Hz to 55Hz ,Amplitude:1.5mm This motion shall be applied for a period of 2 h in each of 3 mutually perpendicular axes(a total of 6h)	IEC 88-2-21:1992	$\Delta f \leq \pm 5 \text{ppm}$												
10.4	Drop test	Drop from 75cm height on 3cm hard wooden board for 6 times	IEC88-2-32:1990	$\Delta f \leq \pm 5 \text{ppm}$												
10.5	Cold Storage	The quartz crystal unit shall be stored at a temperature of -40+/-3℃ for 1000 h.then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.	IEC88-2-8:1982	$\Delta f \leq \pm 5 \text{ppm}$												
10.6	High temperature high humidity storage (steady state)	The quartz crystal unit shall be stored at a temperature of 40+/-2℃ with relative humidity of 95% for 1000h, then it shall be subjected to standard atmospheric conditions for 2h after which measurement shall be made.	IEC80068-2-1:1990	$\Delta f \leq \pm 5 \text{ppm}$												
10.7	Thermal shock	The quartz crystal unit shall be subjected to 50 successive Change of temperature cycles. Each as shown in table below ,then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>Temperature</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>-40+/-3℃</td> <td>15minutes</td> </tr> <tr> <td>2.</td> <td>105+/-2℃</td> <td>15minutes</td> </tr> <tr> <td>3.</td> <td>Transition time</td> <td>Within 10 seconds</td> </tr> </tbody> </table>		Temperature	Duration	1.	-40+/-3℃	15minutes	2.	105+/-2℃	15minutes	3.	Transition time	Within 10 seconds	IEC88-2-14:1986	$\Delta f \leq \pm 5 \text{ppm}$
	Temperature	Duration														
1.	-40+/-3℃	15minutes														
2.	105+/-2℃	15minutes														
3.	Transition time	Within 10 seconds														
10.8	Sealing	Helium leakage detector shall used to measure the leakage rate of gas through any faulty seal. Pressure:500Kpa, duration:120 minutes.	IEC88-2-3:1984	Leakage rate $\leq 1 \times 10^{-9} \text{ Pa} \cdot \text{m}^3/\text{S}$												
10.9	High temperature Life test	The quartz crystal unit shall be stored at a temperature of 105+/-3℃ for 168h ,then it shall be subjected to standard atmospheric condition for 1h after which measurement shall be made.	IEC80068-2-2:1974	$\Delta f \leq \pm 5 \text{ppm}$												



4、 Test Circuit



5、 Package: Tape & Reel (mm)

