Customer Code :_____

DATASHEET

DAPU P/N: **DP7X10000012**

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	Jason Zhao	
Date: 2023.05.05			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

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1、Electrical Parameters

MODEL：DP7X10000012							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL		100.00		MHz	
2	Output Waveform			HCSL			
3	Frequency Stability(Over all)	-	-25		+25	$\times 10^{-6}$	Frequency stability includes frequency tolerance@25℃ and frequency stability vs.operating temperature range and voltage variance and first year aging.
4	Aging		-3		+3	$\times 10^{-6}$	First year
5	Operating Temperature	Topr	-40	~	+85	℃	The operating temperature range over which the frequency stability is measured.
6	Storage Temperature	Tstg	-55	~	+125	℃	
7	Supply Voltage		3.135	3.3	3.465	V	
8	Current		-	-	50	mA	At maximum supply voltage
9	Output Load			50		Ω	
10	Output Voltage High	VoH	0.6	-	-	V	
11	Output Voltage Low	Vol	-	-	0.15	V	
12	Output Symmetry	-	45	50	55	%	
13	Rise Time	Tr	-	-	0.5	ns	
14	Fall Time	Tf	-	-	0.5	ns	
15	Start-up Time	Tosc	-	-	10	ms	
16	Enable Control	-		Yes		-	Pin 1
17	Output Enable	V_{HI}	2.31 or Floating			V	
18	Output Disable	V_{LO}			0.99	V	
19	Phase Noise			-90		dBc/Hz	100Hz
20				-120		dBc/Hz	1kHz
21				-130		dBc/Hz	10kHz
22				-140		dBc/Hz	100kHz
23	RMS Phase Jitter				0.5	ps	12kHz-20MHz

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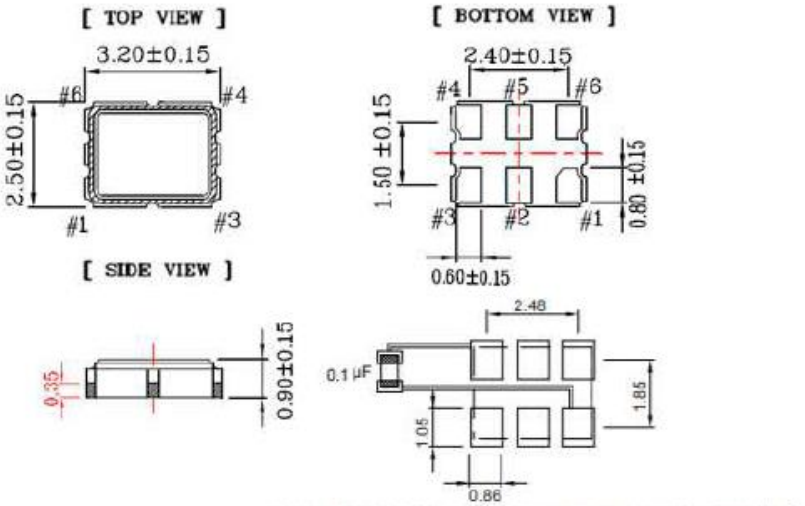
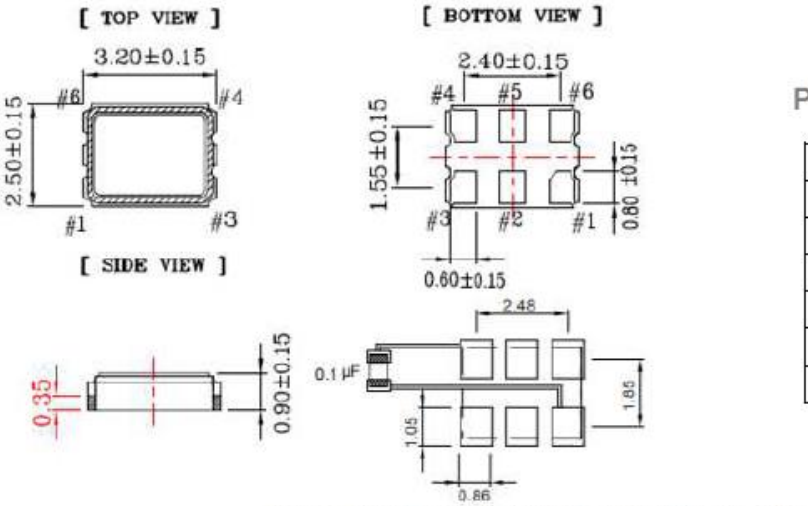
2、Mechanical Structure(mm)

Main Source



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1µF as close to the part as possible between Vdd and GND pads.

Second Source



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1µF as close to the part as possible between Vdd and GND pads.

PIN FUNCTIONS

Pin	Function
#1	Tri-State
#2	N.C.
#3	GND.
#4	Output
#5	Comp. Output
#6	V_{DD}

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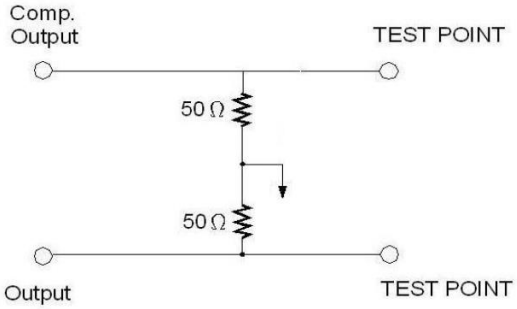
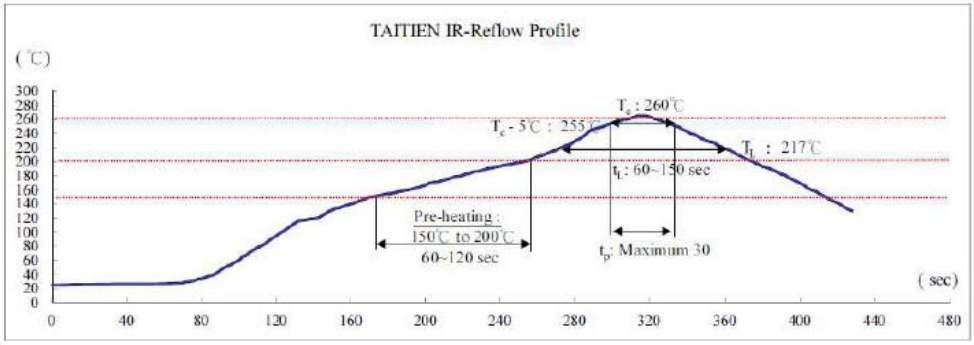
3、Test Circuit



4、Recommended IR Reflow Profile



Reference Standard: JEDEC-STD 020
Test conditions: Pre-heating : 150℃ to 200℃, 60~120secs.
Liquidous temperature (T_L) & Time (t_L): Heating : 217℃, 60~150sec.
T_c is 260 ℃ and time t_p is 30 seconds.
T_c : classification temperature ; the maximum body temperature at which the component manufacturer guarantees the component MSL as noted on the caution and/or bar code label per J-STD-033.
t_p : time within 5 ℃ of the specified classification temperature (T_c).

**The peak temperature must not exceed 260 ℃. The time t_p above 255 ℃ must not exceed (Max.) 30 seconds.

5、Package: Tape & Reel (mm)