Travelling Merchant: A018

DATASHEET

Standard: **T75B-1801-19.20MHz**

P/N:

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Tony · Wang	James.Liu	
Date: 2013.02.18			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

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

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2013.02.18

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

1. Electrical Parameters

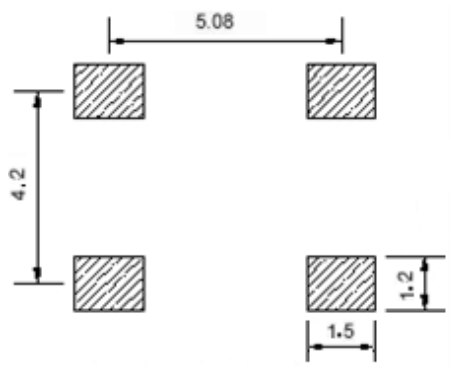
MODEL： T75B-1801-19.20MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		19.20		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.33	V	V_{cc}=3.3V, O_{load}=15 pF
	Output High Voltage	2.82			V	V_{cc}=3.3V, O_{load}=15 pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time （10%~90%）			5	ns	@25℃
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.28		+0.28	$\times 10^{-6}$	T_A varied from -40℃ to 85℃, measurement referenced to frequency observed with T_A= 25℃, V_{cc}=3.3V, O_{load}=15pF, temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.3		+0.3	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, and O_{Load}=15pF.
	Frequency Tolerance vs. Load	-0.1		+0.1	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, O_{Load}=15pF.
	Aging 1 Year	-1		+1	$\times 10^{-6}$	T_A=25℃, V_{cc}=3.3V, and after 1h of operation.
	Aging 10 Years	-3		+3	$\times 10^{-6}$	
	All causes stability 20 years	-4.6		+4.6	$\times 10^{-6}$	
Power Supply	Current Consumption			7	mA	@25℃, V_{cc}=3.3V, O_{load}=15pF.
	Supply Voltage	3.13	3.3	3.47	V	

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

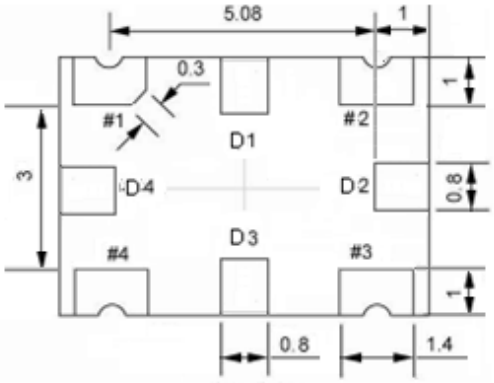
Phase Noise	Phase Noise		-90	-85	dBc/Hz	10Hz
			-115	-110		100Hz
			-130	-125		1KHz
			-140	-135		10KHz
			-145	-140		100KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+125	℃	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	IEC 60068-2-6 Test Fc, 10-60Hz 1.5mm displacement, at 98.0ms^{-2}, 30 minutes in each of three mutually perpendicular axes at 1 octave per minute.				
	Shock	IEC 60068-2-27 Test Ea, 980ms^{-2}, acceleration for 6ms duration 3 shocks in each direction along three mutually perpendicular axes.				
	Soldering	SMD product suitable for Convection Reflow soldering. Peak temperature 260℃. Maximum time above 220℃, 60secs.				
	Solderability	MIL-STD-202, Method 208, Category 3.				
	RoHS	Parts are fully compliant with the European Union directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment. Note these RoHS compliant parts are suitable for assembly using both Lead-free solders and Tin/Lead solders.				

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

2. Mechanical Structure(mm)



Solder pad layout



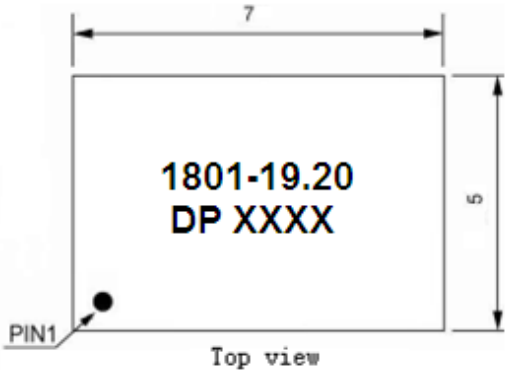
Bottom view

Right view

Side view

PIN FUNCTION

PIN	FUNCTION
D1,D2,D3,D4	NC
1	NC
2	GND
3	OUTPUT
4	VCC



Top view

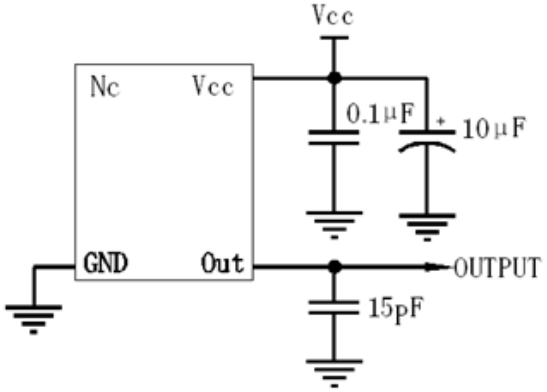
Note1: Tolerance ±0.2mm without mark

Note2: The first two xx representative: week
After two xx representative: year

Note3: Referential Weight 0.2g

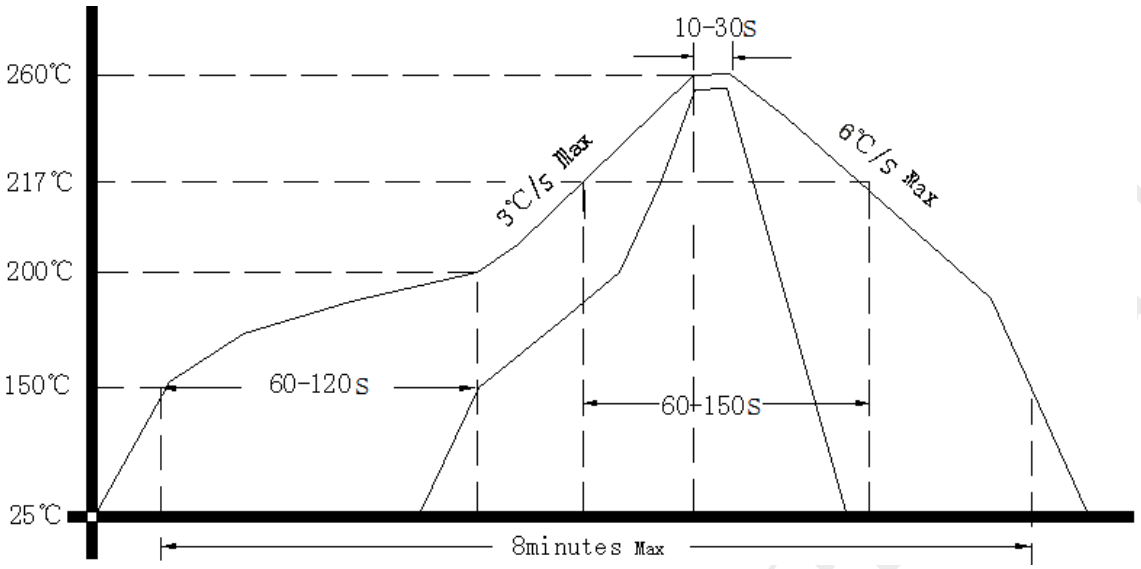
Note4: NC is not connect

3. Test circuit



Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PRC China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)