

Travelling Merchant: A008

# DATASHEET

Standard: T75B-0802-40.00MHz

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.01.31			

## 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



### Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2014.12.12
1.1	The “Mechanical Structure” “Package: Tape & Reel” changed	<i>Amway</i>	2024.01.31



## 1. Electrical Parameters

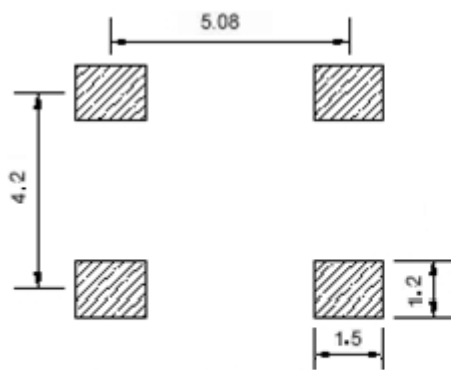
MODEL: T75B-0802-40.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	40.00			MHz	
	Output Waveform	Clipped Sine Wave				
	V <sub>p-p</sub>	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1		+1	× 10 <sup>-6</sup>	T <sub>A</sub> varied from -40 to 85°C, measurement referenced to frequency observed with f <sub>ref</sub> =(f <sub>max</sub> +f <sub>min</sub> )/2, V <sub>cc</sub> =3.3V, O <sub>load</sub> =10KΩ//10pF.
	Initial Frequency Tolerance	-1		+1	× 10 <sup>-6</sup>	Measurement referenced to frequency observed with T <sub>A</sub> =25°C±2°C, 10% load change, V <sub>cc</sub> varied from 3.13V to 3.47V, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	× 10 <sup>-6</sup>	Measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 3.13V to 3.47V, and O <sub>Load</sub> =10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	× 10 <sup>-6</sup>	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, O <sub>Load</sub> =10KΩ//10pF.
	Aging Tolerance Per Day	-0.02		+0.02	× 10 <sup>-6</sup>	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	× 10 <sup>-6</sup>	
	Aging Tolerance 10 Years	-5		+5	× 10 <sup>-6</sup>	
Power Supply	Current Consumption			10	mA	@25°C, V <sub>cc</sub> =3.3V, O <sub>load</sub> =10KΩ//10pF.
	Supply Voltage	3.13	3.3	3.47	V	
	Absolute Supply Voltage	2.64	3.3	3.96	V	
Phase Noise	Phase Noise @25°C			-82	dBc/Hz	10Hz
				-110		100Hz
				-130		1KHz
				-145		10KHz
				-150		100KHz
				-150		1MHz



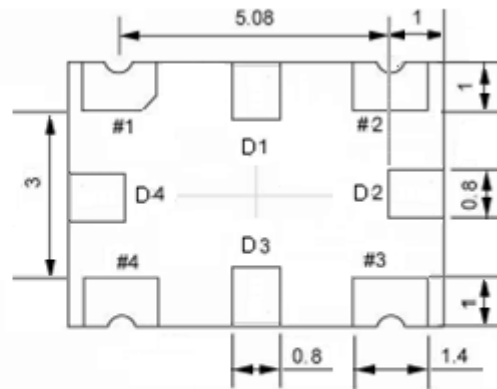
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Bump	400m/s <sup>2</sup> ; 6ms; (4000±10 times for each 3 directions X , Y , Z) .IEC 60068-2-29 Test Eb.				
	Vibration	Test Condition: 0.75mm ; 10Hz~55Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z) .IEC 60068-2-06 Test Fc.				
Shock	1000 m/s <sup>2</sup> ; 6ms; half sine wave (3 times for each 6 directions X , Y, Z ),IEC 60068-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				



## 2. Mechanical Structure(mm)



Solder pad layout



Bottom view



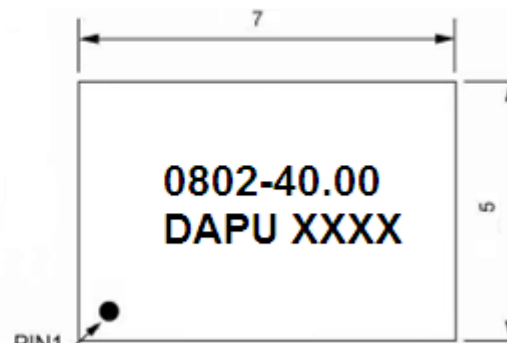
Right view



Side view

### PIN FUNCTION

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



Top view

**Note1:** Tolerance  $\pm 0.3$ mm without mark

**Note2:** The first two xx representative: week

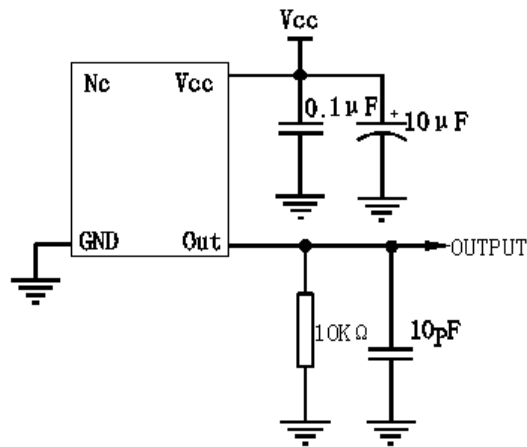
After two xx representative: year

**Note3:** Referential Weight 0.2g

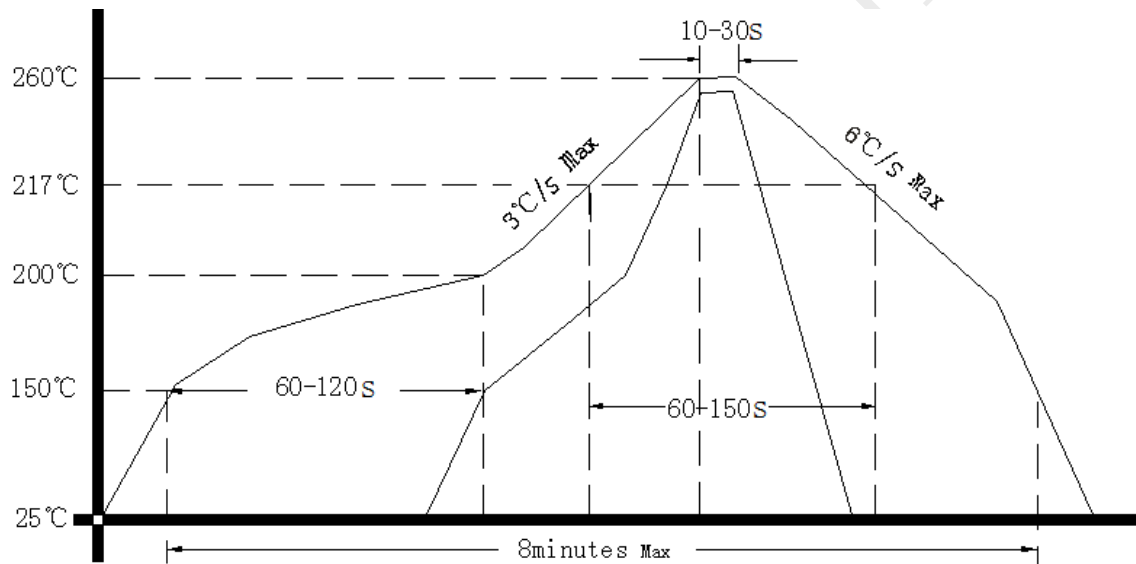
**Note4:** NC is not connect



### 3. Test circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

