Travelling Merchant:_____

DATASHEET

Standard: **T75D-BCAD-10.00MHz**

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

Guangdong Dapu Telecom Technology Co.,Ltd

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1、Electrical Parameters

MODEL：T75D-BCAD-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.4	V	V_{cc} =3.3V, O_{load} =15pF
	Output High Voltage	2.8			V	V_{cc} =3.3V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%～90%)			6	ns	@25℃
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from-40℃ to85℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=3.3V, V_c= 1.65V, $O_{load=}$ 15pF.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A = 25℃, V_{cc}= 3.3V, V_c=1.65V, Test results; and after 5s of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, V_c=1.65V and O_{Load}=15pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=3.3V, V_c=1.65V. O_{Load}=15pF
	Aging Tolerance Per Day	-0.01		+0.01	$\times 10^{-6}$	T_A=25℃, V_{cc}=3.3V, V_c=1.65V and after 1h of operation.
	Aging Tolerance 1 Year	-0.5		+0.5	$\times 10^{-6}$	
Power Supply	Current Consumption		3		mA	@25℃, V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF
	Supply Voltage	3.13	3.3	3.47	V	
Voltage Control Characteristics	Frequency Tuning Range			-5	$\times 10^{-6}$	V_c=0.65 V. measurement referenced to V_c=1.65V
		-1		+1	$\times 10^{-6}$	V_c=1.65V. measurement referenced to exactly 10.00MHz
		+5			$\times 10^{-6}$	V_c=2.65V. measurement referenced to V_c=1.65V

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	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-130		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+105	℃	
	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	Test Condition: 0.75mm ;acceleration:10g;10Hz～2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z), IEC 68-2-06 Test Fc.				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2-27 Test Ea/Severity 50A.				

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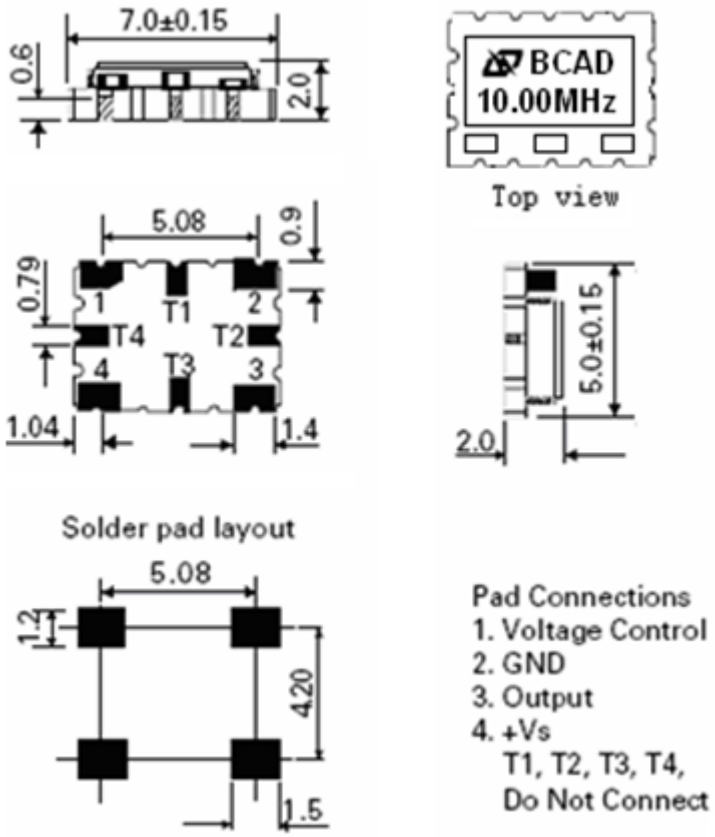
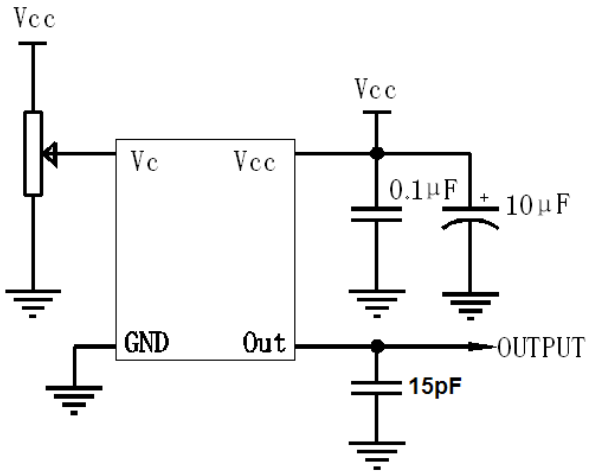
2、Mechanical Structure (mm)



Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 0.2g

3、Test Circuit



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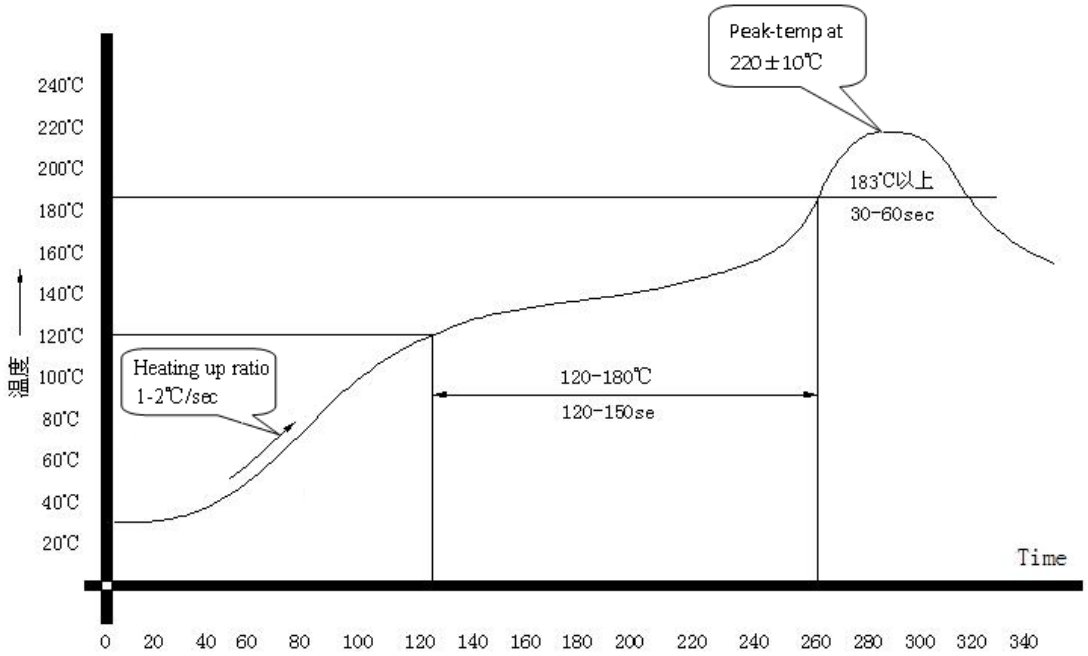
4、Reflow Soldering Curve



5、 Package: Tape & Reel (mm)