

Customer Code : _____

DATASHEET

DAPU P/N: **T75D-BCAD-10.00MHz-B**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2017.04.21			

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1. Electrical Parameters

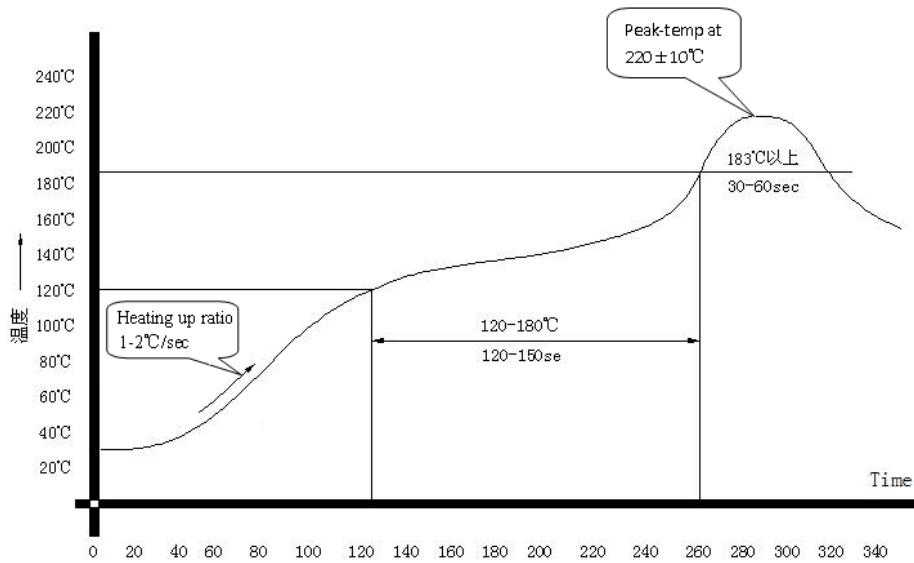
MODEL: T75D-BCAD-10.00MHZ-B						
Item	Parameters	Electrical Spec			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Output High Voltage	2.8			V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			6	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from -20°C to 70°C, measurement referenced to frequency observed with $T_A = 25^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V, O_{load} = 15\text{ pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C} \pm 3^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A = 25^\circ\text{C}, V_{cc}$ varied from 3.13V to 3.47V, $V_c = 1.65V$ and $O_{Load} = 15\text{ pF}$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A = 25^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V, O_{Load} = 15\text{ pF}$
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	$T_A = 25^\circ\text{C} \pm 3^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V$ and after 1h of operation.
	Aging Tolerance 1 Year	-1.0		+1.0	$\times 10^{-6}$	
Power Supply	Current Consumption		3.0		mA	@25°C, $V_{cc} = 3.3V, V_c = 1.65V, O_{load} = 15\text{ pF}$.
	Supply Voltage	3.13	3.3	3.47	V	



Voltage Control Characteristics	Frequency Tuning Range	-4		-2	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=1.65V$
		-0.5		+0.5	$\times 10^{-6}$	$V_c=1.65V$. measurement referenced to Exactly10.00MHz
		+2		+4	$\times 10^{-6}$	$V_c=3.3V$. measurement referenced to $V_c=1.65V$
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ω	
Phase Noise	Phase Noise		-130		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-20		70	$^{\circ}C$	
	Storage Temperature	-40		+80	$^{\circ}C$	
	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.				
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.					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature ($^{\circ}C$)	-10~35 $^{\circ}C$				



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

