

Customer Code : _____

DATASHEET

DAPU P/N: **V10A-K313-77.76MHz**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2019.08.21			

Guangdong Dapu Telecom Technology Co.,Ltd

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

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



1. Electrical Parameters

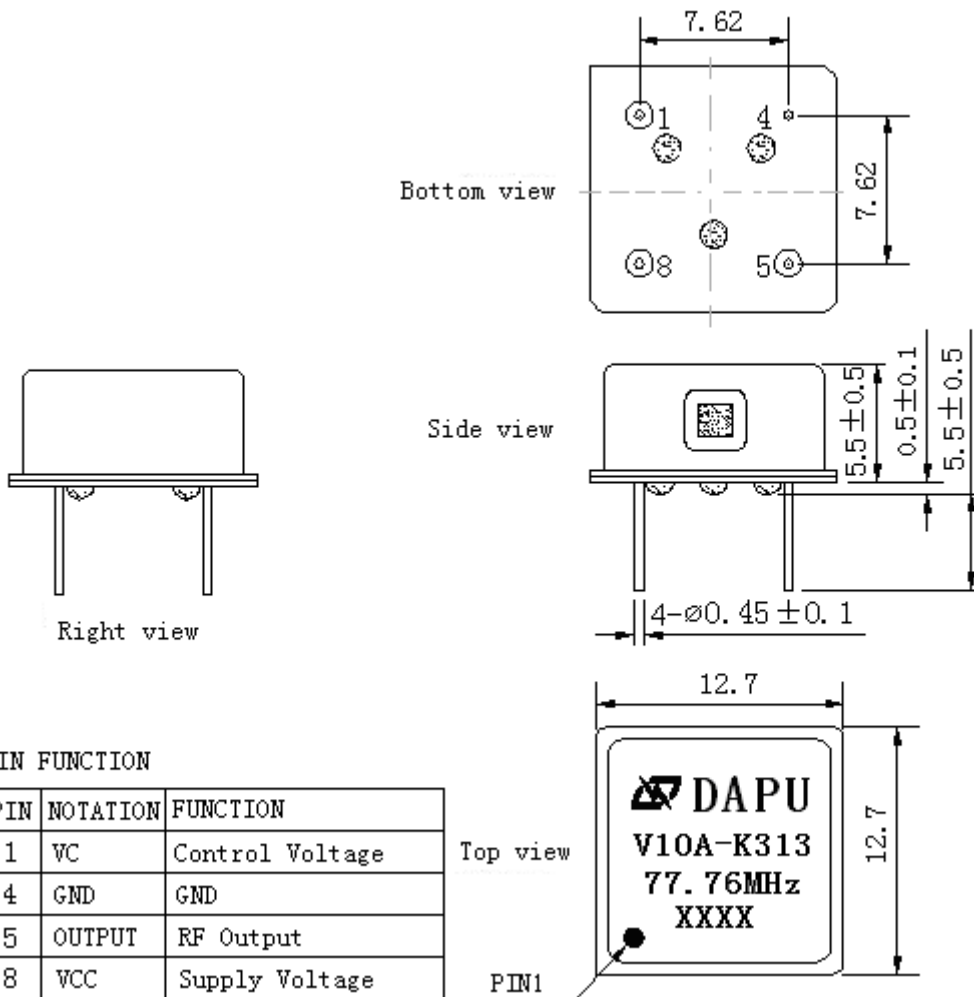
MODEL: V10A-K313-77.76MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	77.76			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.4	V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Output High Voltage	2.4			V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			8	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-20		+20	$\times 10^{-6}$	T_A varied from -10°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	-20		+20	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V$ within 30 days after ex-works.
	Aging Tolerance 1 Year	-3		+3	$\times 10^{-6}$	$T_A = 25^\circ\text{C}, V_{cc} = 3.3V, V_c = 1.65V$ and after 1h of operation.
Power Supply	Current Consumption			30	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			-120	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=1.65V$
		-20		+20	$\times 10^{-6}$	$V_c=1.65V$. measurement referenced to exactly 77.76MHz
		+120			$\times 10^{-6}$	$V_c=3.3V$. measurement referenced to $V_c=1.65V$
	Linearity			20	%	
	Slope	Positive				
	Input Impedance	100			K Ω	



Phase Noise	Phase Noise @25°C		-115		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	-10		+70	°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	Not humidity sensitive.				
	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 (°C)	-10~35°C				



2. Mechanical Structure(mm)



Note1: Tolerance ±0.20mm without mark

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

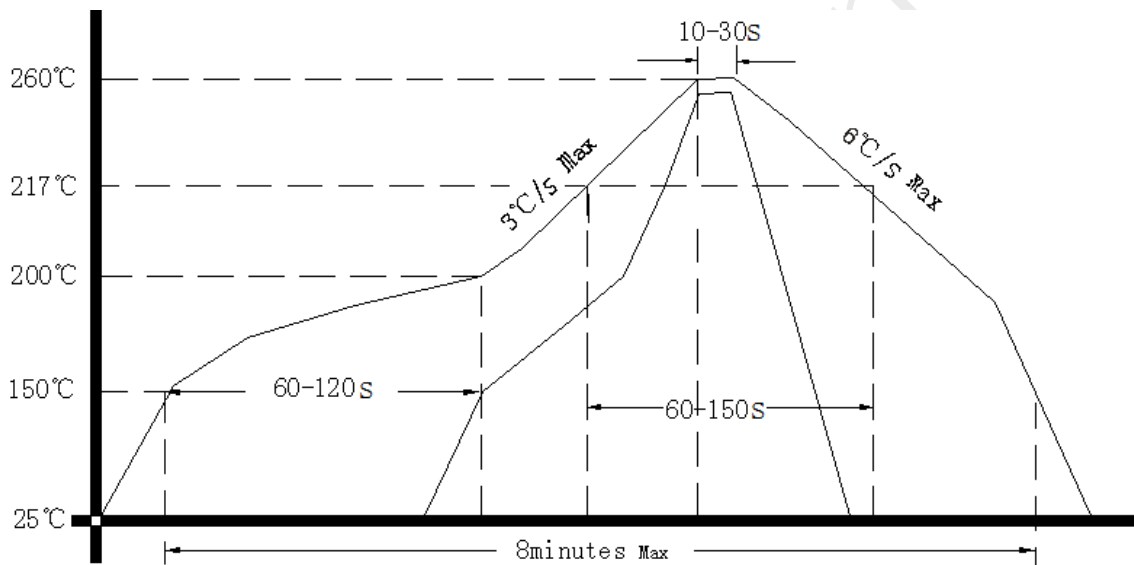
Note3: Referential Weight 2.3g



3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: PVC Tube,15pcs (mm)

