Customer Code : _____

DATASHEET

DAPU P/N: **O33B-P449-120.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Tony · Wang	James.Liu	
Date: 2018.05.23			

Guangdong Dapu Telecom Technology Co.,Ltd

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2018.05.23

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1. Electrical Parameters

MODEL： O33B-P449-120.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		120.00		MHz	
	Output Waveform		Sine wave			
	Level	12	13	14	dBm	
	Load		50		Ω	
	Harmonics Suppression			-25	dBc	
	Spurious Suppression			-100	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.1		+0.1	$\times 10^{-6}$	T_A varied from-40℃ to 70℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=12.0V, O_{load}=50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=12.0V, and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.02		+0.02	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 11.4V to 12.6V, O_{load}=50Ω.
	Frequency Tolerance vs. Load	-0.02		+0.02	$\times 10^{-6}$	5% Load Change Measurement referenced to frequency observed with T_A=25℃, V_{cc}=12.0V, O_{load}=50Ω.
	Short Term Stability			0.01	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25℃; 1s, using PN9000 equipment.
	Aging Tolerance per day	-2.0		+2.0	$\times 10^{-9}$	V_{cc}, T_A constant Measurement referenced to frequency observed with T_A=25℃,V_{cc}=12.0V, O_{load}=50Ω , and after 30 days of operation.
	Aging Tolerance 1Year	-0.5		+0.5	$\times 10^{-6}$	
Power Supply	Supply Voltage	11.4	12.0	12.6	V	
	Steady Consumption			250	mA	@25℃
	Warm up current			500	mA	

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Phase Noise	Phase Noise			-133	dBc/Hz	100Hz
				-160		1KHz
				-165		10KHz
				-168		100KHz
				-172		1MHz
Environmental Conditions	Operable Temperature	-40		+70	℃	
	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	Not humidity sensitive.				
	Vibration	Acceleration spectrum density:6g2/Hz, Acceleration rms:92.6m/s2 ; 50Hz～2000Hz, one cycle per 1.5H, 3 directions with X ,Y , Z, GJB360B method 214 Test condition C				
	Shock	50g；11ms；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 (℃)	-10~35℃				

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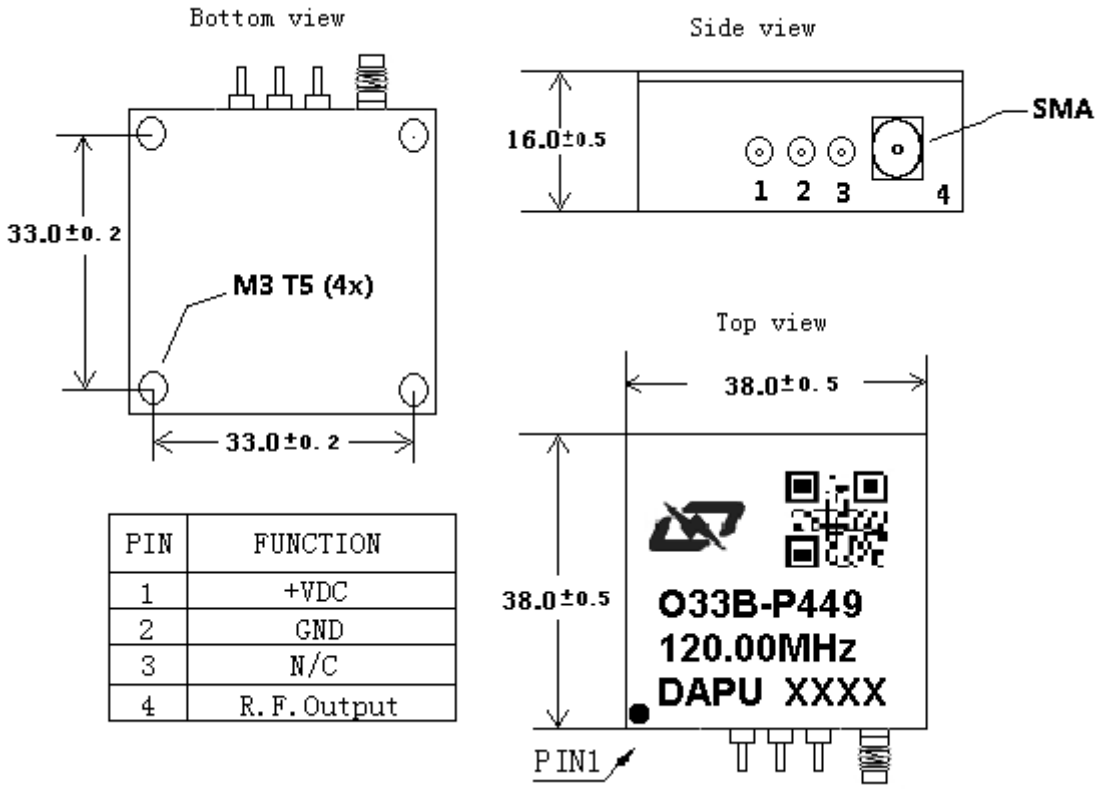
2. Mechanical Structure (mm)



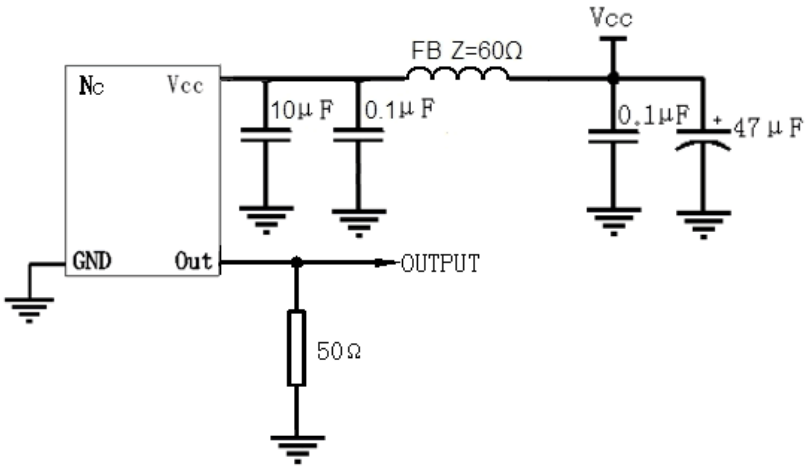
PIN	FUNCTION
1	+VDC
2	GND
3	N/C
4	R.F.Output

Note1: Tolerance ±0.20mm without mark

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

Note3: NC is not connect

3. Test Circuit



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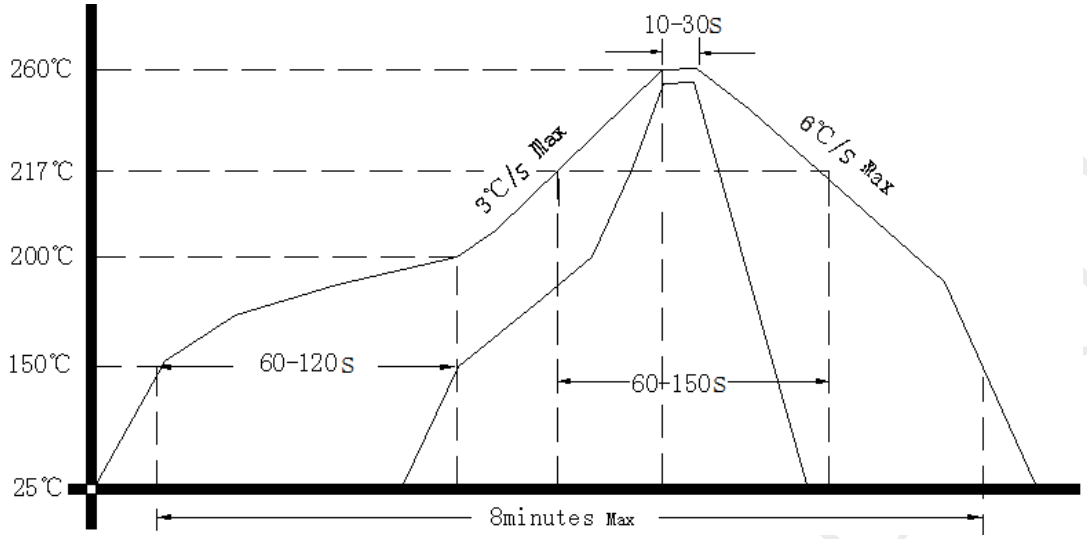
4. Reflow Soldering Curve (RoHS)



5. Package(mm)