Customer Code : _____

DATASHEET

DAPU P/N: **O55A-A425-10.00MHz-A**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Tony · Wang	Jason Zhao	
Date: 2020.10.28			Stamp, please! Thanks!

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	2018.02.09
1.1	The “operating temperature range” changed	Amway	2018.03.08
1.2	The “Marking” changed	Amway	2018.07.17
1.3	The “Aging Tolerance Per Day” “Aging Tolerance 1 Year” “ESD Level”changed	Amway	2020.10.28

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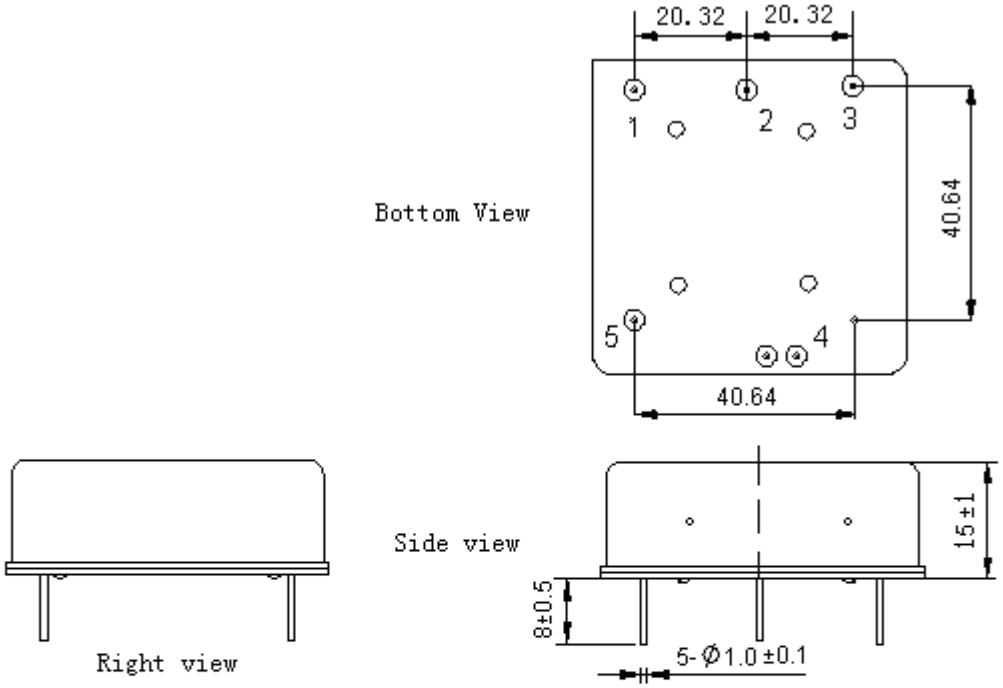
1. Electrical Parameters

MODEL： O55A-A425-10.00MHz-A						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		Sine wave			
	Level	6		10	dBm	
	Load		50		Ω	
	Harmonics Suppression			-40	dBc	
	Spurious Suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	$\times 10^{-9}$	T_A varied from -20℃ to 70℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=5.0V, V_c=2.5V, O_{load}=50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.05		+0.05	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.5V, and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c=2.5V, O_{load}=50Ω.
	Frequency Tolerance vs. Load	-0.01		+0.01	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.5V,and O_{Load}=50Ω.
	Short-Term Stability: Allan Variance			0.005	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25℃; 1s.
	Aging Tolerance Per Day	-0.1		+0.1	$\times 10^{-9}$	V_{cc},T_A constant measurement referenced to frequency observed with T_A=25℃,V_{cc}=5.0V, V_c=2.5V, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.01		+0.01	$\times 10^{-6}$	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			1000	mA	@25℃
	Warm up current			2600	mA	

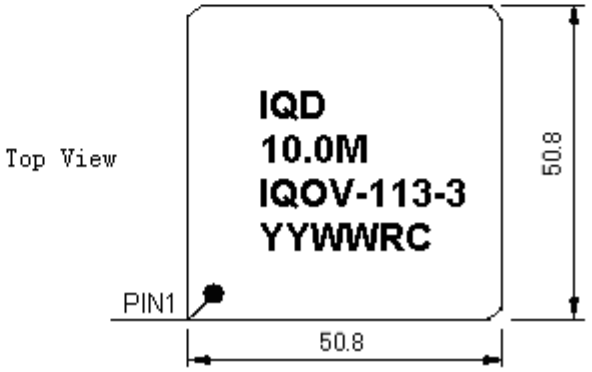
Voltage Control Characteristics	Frequency Tuning Range	-0.5		-0.3	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=2.5V.
		-0.05		+0.05	$\times 10^{-6}$	V_c=2.5V. measurement referenced to exactly 10.00MHz.
		+0.3		+0.5	$\times 10^{-6}$	V_c=5.0V. measurement referenced to V_c=2.5V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-130	-120	dBc/Hz	10Hz
			-145	-135		100Hz
			-150	-145		1KHz
			-155	-150		10KHz
			-155	-150		100KHz
			-155	-150		1MHz
Environmental Conditions	Operable Temperature	-20		+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; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Not humidity sensitive.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz～500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z)， IEC 68-2-06 Test Fc.				
	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℃				

2. Mechanical Structure(mm)



PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	VREF	Vref=4.5V
3	OUTPUT	RF Output
4	GND	GND
5	VCC	Supply Voltage

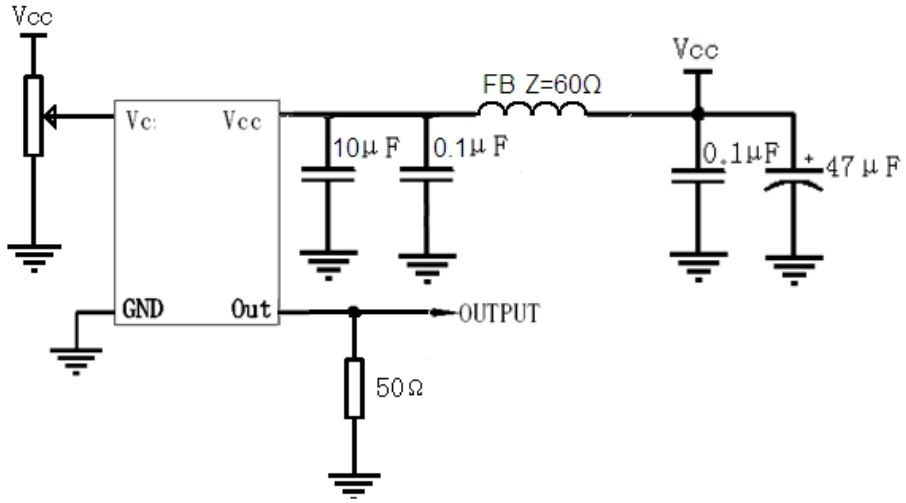


Note1: Tolerance ±0.2mm without mark

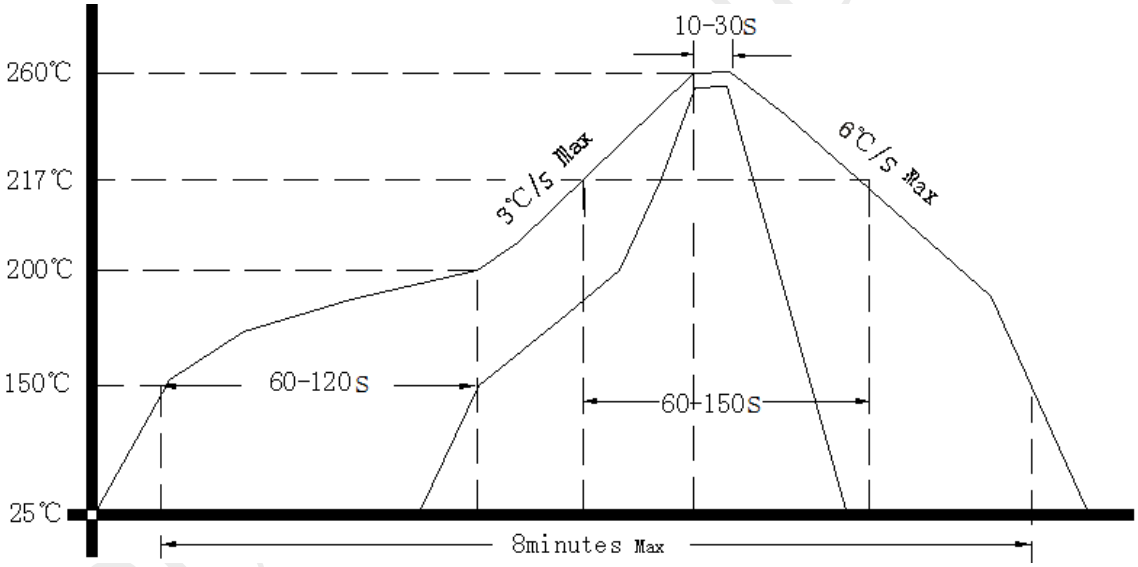
Note2: Referential weight 56.1g

Note3: The YY representative: year
After two WW representative: week

3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package (mm)