

Customer Code : _____

DATASHEET

DAPU P/N: **O23B-G445-10.00MHz-ACT**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.07.31			

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1. Electrical Parameters

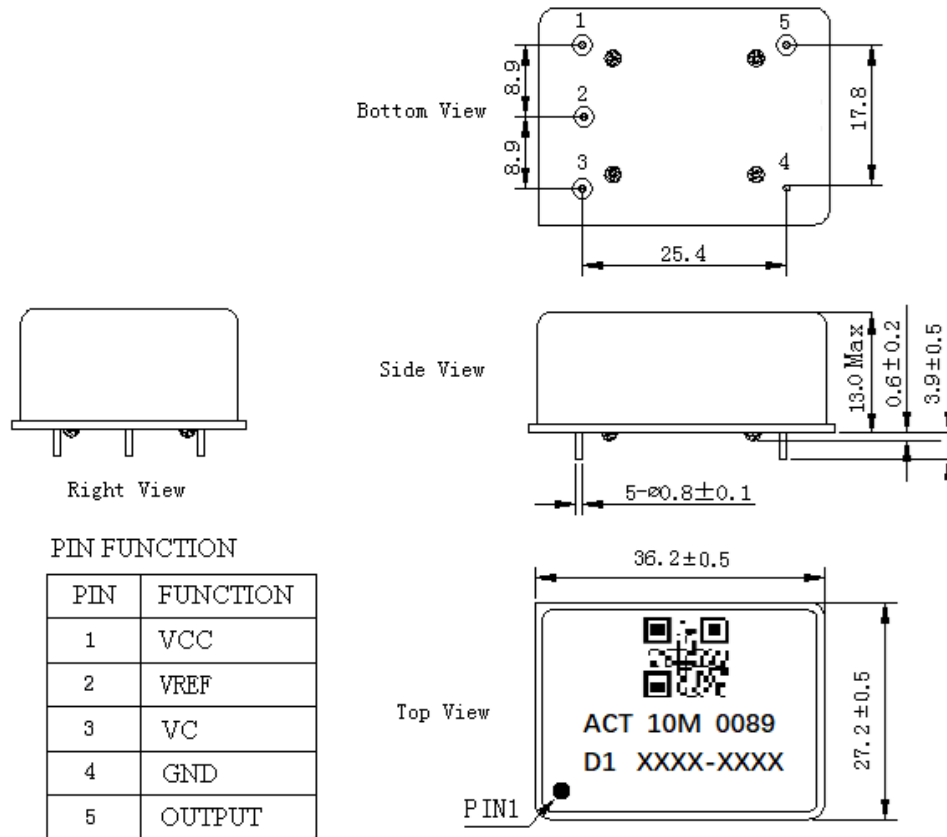
MODEL: O23B-G445-10.00MHz-ACT						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Sine wave				
	Level	8	9	10	dBm	
	Load	50			Ω	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1		+1	$\times 10^{-9}$	T_A varied from -20°C to 70°C , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=12.0\text{V}$, $O_{load}=50\Omega$, temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=12.0\text{V}$, $V_c=2.25\text{V}$ and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. supply voltage	-0.5		+0.5	$\times 10^{-9}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 11.4V to 12.6V, $V_c=2.25\text{V}$, $O_{load}=50\Omega$.
	Frequency Tolerance vs. Load	-0.5		+0.5	$\times 10^{-9}$	5% Load Change Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=12.0\text{V}$, $V_c=2.25\text{V}$, $O_{load}=50\Omega$.
	Short Term Stability			1	$\times 10^{-12}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C ; 1s,10s,100s.
	Aging Tolerance per day	-0.2		+0.2	$\times 10^{-9}$	V_{cc}, V_c, T_A constant Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{cc}=12.0\text{V}$, $V_c=2.25\text{V}$, $O_{load}=50\Omega$ and after 30 days of operation.
	Aging Tolerance 1 Year	-0.02		+0.02	$\times 10^{-6}$	
Power Supply	Supply Voltage	11.4	12.0	12.6	V	
	Reference Voltage		4.5		V	
	Current Consumption			150	mA	@ 25°C
	Current Consumption during warm up			400	mA	
	Warm Up Time			3	min	@ 25°C within $\pm 0.02 \times 10^{-6}$ of final frequency with reference after 1 hour on.
				1	min	@ 25°C within $\pm 0.1 \times 10^{-6}$ of final frequency with reference after 1 hour on.



Voltage Control Characteristics	Frequency Tuning Range			-0.4	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=2.25V$.
		-0.2		+0.2	$\times 10^{-6}$	$V_c=2.25V$. measurement referenced to exactly 10.00MHz.
		+0.4			$\times 10^{-6}$	$V_c=4.5V$. measurement referenced to $V_c=2.25V$.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K Ω
Phase Noise	Phase Noise		-100		dBc/Hz	1Hz
			-130			10Hz
			-153			100Hz
			-158			1KHz
			-160			10KHz
Environmental Conditions	Operable Temperature	-20		+70	$^{\circ}C$	
	Storage Temperature	-55		+105	$^{\circ}C$	
	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 ($^{\circ}C$)	-10~35 $^{\circ}C$				



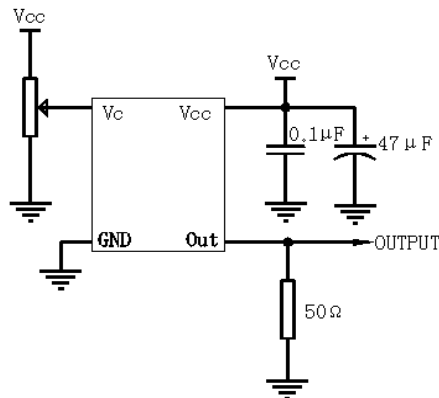
2. Mechanical Structure (mm)



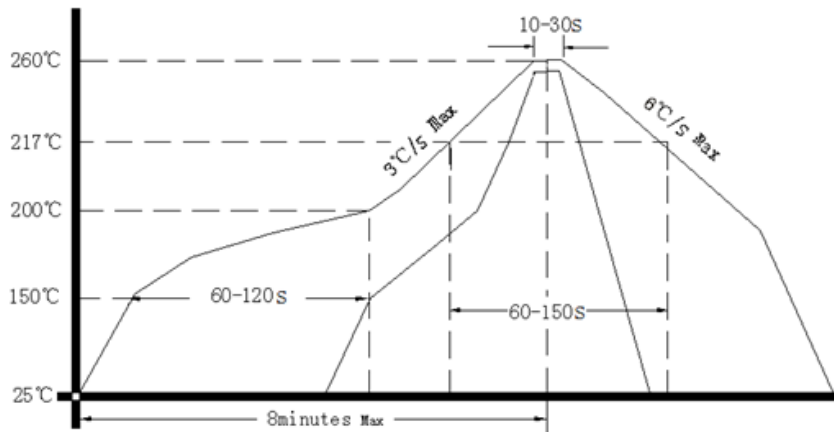
- Note1:** Tolerance ± 0.20 mm without mark
- Note2:** The first two xx representative: week
After two xx representative: year
At last four xxxx representative: serial number
- Note3:** Referential Weight 21g
- Note4:** NC is not connect



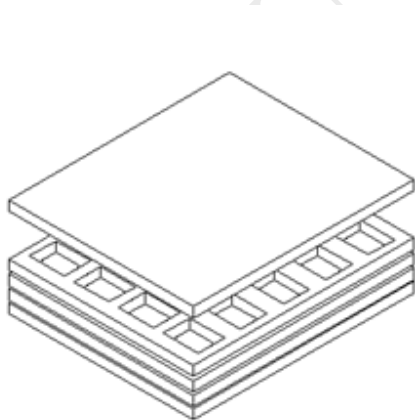
3. Test Circuit



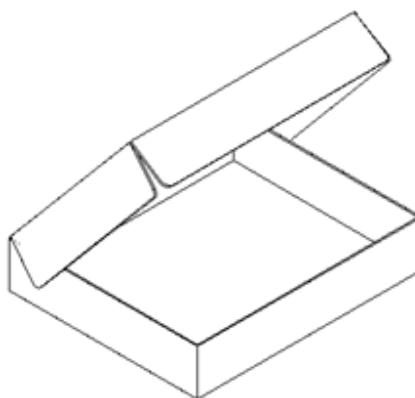
4. Reflow Soldering Curve (RoHS)



5. Package(mm)



Buffer material



Cardboard
Max 20pcs. circulator

