

Customer Code : _____

DATASHEET

DAPU P/N: 021L-L419-100.00MHz

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.07.21			

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1. Electrical Parameters

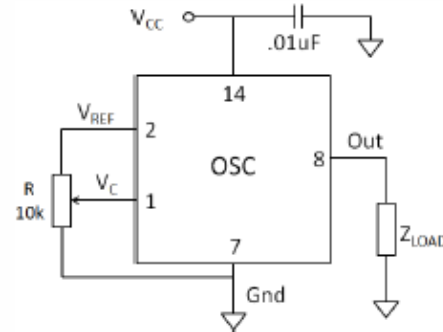
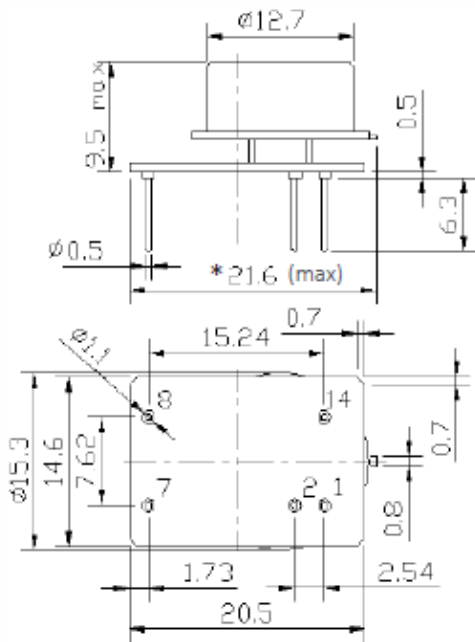
MODEL: O21L-L419-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	100.00			MHz	
	Output Waveform	Sine Wave				
	Level	4			dBm	
	Harmonics Suppression			-25	dBc	
	Load	50			Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.05		+0.05	$\times 10^{-6}$	T_A varied from -40°C to 85°C , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$, $V_{\text{cc}}=3.3\text{V}$, $O_{\text{load}}=15\text{pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{\text{cc}}=3.3\text{V}$, and after 5 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-2		+2	$\times 10^{-9}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}$, V_{cc} varied from 3.13V to 3.47V, and $O_{\text{load}}=50\Omega$.
	G-Sensitivity		± 1		$\times 10^{-9}\text{G}$	
	Retrace	-0.02		+0.02	$\times 10^{-6}$	
	Allan Deviation		0.02		$\times 10^{-9}$	
	Aging Tolerance Per Day	-3		+3	$\times 10^{-9}$	V_{cc}, T_A constant measurement referenced to frequency observed with $T_A=25^\circ\text{C}$, $V_{\text{cc}}=3.3\text{V}$, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.3		+0.3	$\times 10^{-6}$	
Power Supply	Supply Voltage	3.13	3.3	3.47	V	
	Reference output	2.7	3.0	3.1	V	
	Steady Consumption		45		mA	
	Warm up current			360	mA	@ 25°C
	Warm-Up Time		60		S	@ 25°C within $\pm 0.1 \times 10^{-6}$ of final frequency with reference after 15 minutes on.



Phase Noise	Phase Noise		-90		dBc/Hz	10Hz
			-120			100Hz
			-145			1KHz
			-165			10KHz
			-165			100KHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+125	°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 (°C)	-10~35°C				



2. Mechanical Structure (mm)



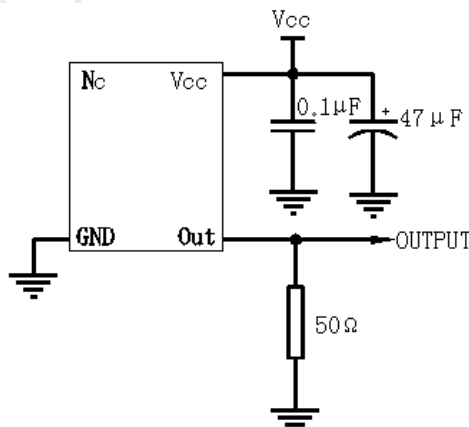
Pin Assignments

Pin	Connection
1	N.C.
2	V _{REF}
7	Ground
8	Output
14	V _{CC}

All tolerances – 0.254mm (0.01")

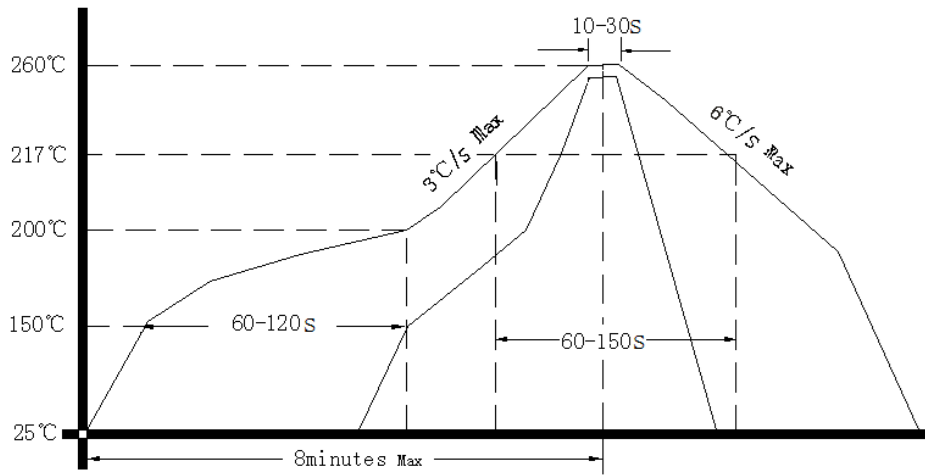
* Note - The tab on the metal enclosure may be rotated 180° for certain frequency and performance combinations.

3. Test Circuit

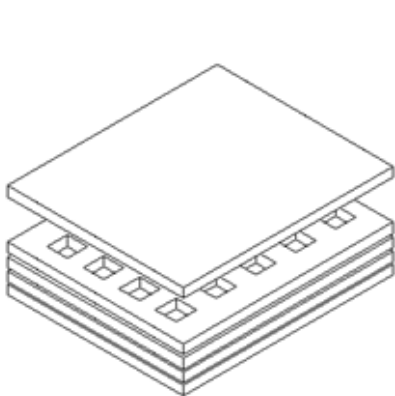




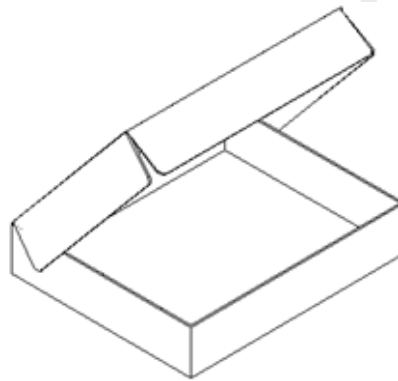
4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)



Buffer material



Cardboard
Max 20pcs. circulator

