

Customer Code : _____

DATASHEET

DAPU P/N 021G-K426-100.00MHz

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2020.09.27			

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1. Electrical Parameters

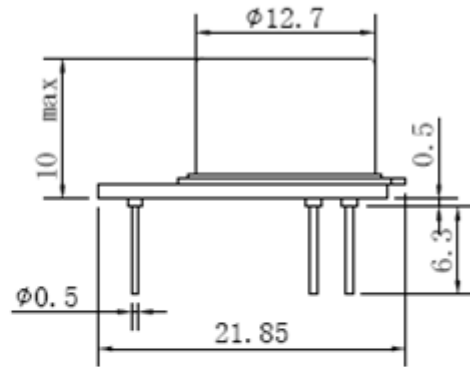
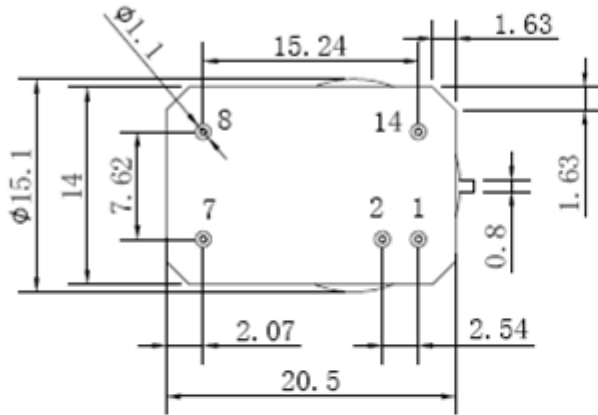
MODEL: O21G-K426-100.00MHz							
Item	Description	Parameters			Unit	Test Condition	
		Min.	Typ.	Max.			
Output	Frequency	100.00			MHz		
	Output Waveform	Sine wave					
	Level	+6	+8		dBm		
	Harmonics Level			-25	dBc		
	Load	45	50	55	Ω		
Frequency Stabilities	Frequency stability vs. Operating Temperature Range			± 0.05	$\times 10^{-6}$	ref 25°C, -40°C~85°C.	
	Frequency stability vs. supply voltage		± 3	± 5	$\times 10^{-9}$	Ref Vcc TYP.	
	Frequency stability vs.load			± 5	$\times 10^{-9}$	5% change	
	Initial Tolerance	-0.1		+0.1	$\times 10^{-6}$	@25°C, Vc=Vco	
	Aging Tolerance per day			± 3	$\times 10^{-9}$	after 30 days of operation.	
	Aging Tolerance 1Year			± 0.3	$\times 10^{-6}$		
Power Supply	Supply Voltage	4.75	5.0	5.25	V		
	Continuous Consumption			50	mA	@25°C, Vcc=5.0V	
	Warm up current	120		220	mA	Vcc=5.0V	
	Warm-Up Time			90	s	to Df/f=1e-7 at +25 °C	
	Reference Voltage	4.1	4.2	4.3	V		
Voltage Control Characteristics	Input Resistance		11		k Ω		
			5		pF		
	Voltage Range	0		4.2	V		
	Preset Control Voltage	2.0	2.1	2.2	V		
	Tuning Range				-1	$\times 10^{-6}$	Vc=0V. measurement referenced to Vc=2.1V
			-0.1		+0.1	$\times 10^{-6}$	Vc=2.1V. measurement referenced to exactly 100.00MHz
			+1			$\times 10^{-6}$	Vc=4.2V. measurement referenced to Vc=2.1V
	Output resistance of Vref		91		Ohm		
Slope	Positive						



Phase Noise	Phase Noise			-55	dBc/Hz	1Hz
				-95		10Hz
				-125		100Hz
				-155		1KHz
				-165		10KHz
				-165		100KHz
Environmental Conditions	Power Voltage	-0.5 to 6.0V				
	Control Voltage	-1.0 to 9.0V				
	Operable Temperature	-40°C to +85°C				
	Storage Temperature	-60°C to +90°C				
	Humidity	Non-condensing 95%				
	Vibration	Per MIL-STD-202, 5G to 2000Hz				
	Shock	Per MIL-STD-202, 30G h, 11ms				
	Washing conditions	Washing with water or alcohol based detergent allowed only with final enough drying stage				
Soldering conditions	Hand solder only –not reflow compatible . 260°C 10s (on pins)					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				



2. Mechanical Structure (mm)



PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2	VREF	Reference Output Voltage
7	GND	GND
8	OUTPUT	RF Output
14	VCC	Supply Voltage

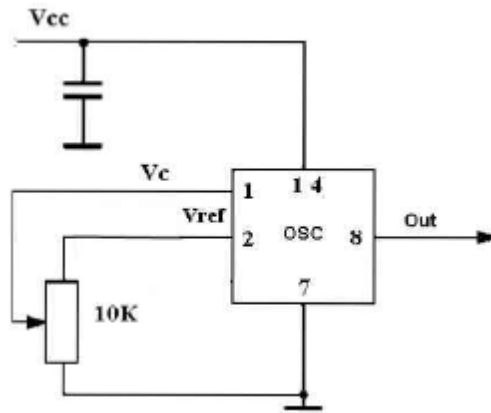


Note1: Tolerance $\pm 0.20\text{mm}$ without mark

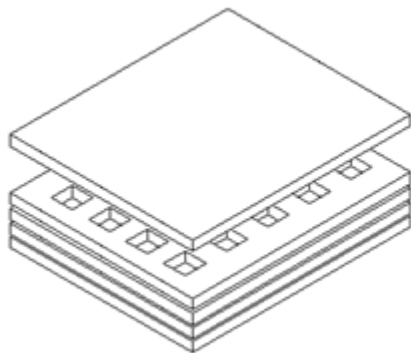
Note2: The first two xx representative: week
After two xx representative: year



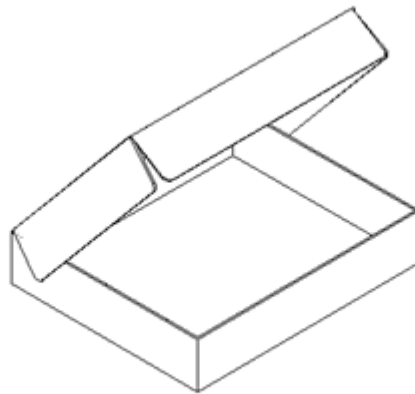
3. Test Circuit



4. Package(mm)



Buffer material



Cardboard
Max 20pcs. circulator

