Customer Code : A008

DATASHEET

DAPU P/	'N:	O11F-0801-19.20MHZ
Customer	P/N·	
Customer	P/IV:	

	DAPU		Customer Approval
Drew	Audited Approved		
Date: 2023.	09.22		Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL: 0086-0769-88010888 FAX: 0086-0769-81800098



${\bf Guang dong\ Dapu\ Telecom\ Technology\ Co., Ltd}$

http://www.dptel.com

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098



Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2021.05.10
1.1	The "Marking" changed	Amway	2021.05.31
1.2	The "Marking" changed	Amway	2021.06.12
1.3	The "Short-Term Stability Allan Variance" "Moisture Sensitivity Level" "Reflow Soldering Curve" "Package: Tape & Reel" changed, Add "Aging Calculation method"	Amway	2023.03.29
1.4	The "Mechanical Structure" changed	Amway	2023.03.31
1.5	The "Output High Voltage" changed	Amway	2023.09.22



${\bf Guang dong\ Dapu\ Telecom\ Technology\ Co., Ltd}$

http://www.dptel.com

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098



1. Electrical Parameters

MODEL: O11F-0801-19.20MHz						
Item	m Description		Parameters Min. Typ. Max.		Unit	Test Condition
Output	Frequency	1,1111	19.20	112000	MHz	
	Output Waveform	LVTTL				
	Output Overshoot			10	%	• , 0
	Output Low Voltage			0.4	V	Vcc=3.3V, load=15pF
	Output High Voltage	2.8			V	Vcc=3.3V, load=15pF
	Duty Cycle	45		55	%	
	Rise / Fall Time (10%~90%)			4	ns	C)
	Load	13.5	15	16.5	pF	Y
	Start-up time			0.8	S	
	Sprious			-90	dBc	
	Frequency Tolerance vs. Operating Temperature Range	(10	×10-9	TA varied from -40°C to 85°C, measurement referenced to frequency observed with pk-pk, Vcc=3.3V, load=15pF, temperature variable speed less than 2°C per minute.
		-100		+100	×10-9	TA varied from -40°C to 90°C.
Frequency Stabilities	Initial Frequency Tolerance	-1		+1	×10 ⁻⁶	Measurement referenced to frequency observed with TA=25°C, Vcc=3.3V, and after 15 minutes of operation, within 90 days after ex-works
	Frequency Tolerance vs. Supply Voltage	-2		+2	×10 ⁻⁹	measurement referenced to frequency observed TA=25°C, Vcc varied from 3.234V to 3.366V, and Load=15pF.
	Frequency Tolerance vs. Load	-3		+3	×10 ⁻⁹	10% load change measurement referenced to frequency observed with TA=25°C, Vcc=3.3V, and Load=15pF.
	Micro jump	-0.5		+0.5	×10 ⁻⁹	Continuous testing for 14 days, temperature Fluctuations< ±5 °C, one sampling/10s.
	Temperature hysteresis effect	-0.5		+0.5	×10 ⁻⁹	Over temperature range(10°C/hour)
	Retrace	-0.03		+0.03	×10 ⁻⁶	After 24 hour off at 25°C 15min power on



${\bf Guang dong\ Dapu\ Telecom\ Technology\ Co., Ltd}$

http://www.dptel.com

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098



	Reflow shift	0.1		.0.1	V 10 6	within 90 days after ex-works, put 2 hours after
		-0.1		+0.1	×10 ⁻⁶	reflow soldering and power on for 5 minutes,
						relative to the frequency deviation after ex-works
						within 90 days after ex-works, put 2 hours after
		-1		+1	$\times 10^{-6}$	reflow soldering and power on for 5 minutes,
						relative to standard frequency deviation
	Short-Term					Temperature stability, no EMI\EMC or other
	Stability			0.05	$\times 10^{-9}$	interference, test after power for 1hour ref. to 25° C;
	Allan Variance					1s.
	Aging Tolerance	1		+1	V 10 0	
	Per Day	-1			×10 ⁻⁹	Vcc,TA constant measurement referenced to
	Aging Tolerance			+0.1	_	frequency observed with TA=25°C,Vcc=3.3V,
	1 Year	-0.1			×10 ⁻⁶	and after 30 days of operation.
	Aging Tolerance					Calculation method:
	10 Years	-0.6		+0.6	×10 ⁻⁶	Annual Aging Rate: 100*daily aging rate.
	Aging Tolerance					10-Years Aging Rate: 6* annual aging rate.
	15 Years	-1		+1	×10 ⁻⁶	15-Years Aging Rate: 10* annual aging rate.
	Supply Voltage	3.135	3.3	3.465	v	
	Steady			200		025°0
Power Supply	Consumption			300	mA	@25℃
Tower Suppry	Warm up current		AC	800	mA	
	Warm-Up Time			10	minutes	@25°C within $\pm 0.01 \times 10^{-6}$ of final frequency with reference after 1 hour on.
	Phase Noise @25°C					
				-75		1Hz
				-105		10Hz
				-135	dBc/Hz	100Hz
Phase Noise				-145		1KHz
				-150		10KHz
				-150		100KHz
				-155		1MHz
Jitter	Jitter		0.6		ps	RMS (12KHz ~5MHz)
Acceleration	Acceleration			5	ppb/g	Gamma vector,3-axes,30-1500Hz, typically less
sensitivity	sensitivity					than



Guangdong Dapu Telecom Technology Co., Ltd

http://www.dptel.com

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098



Operating environmental $^{\circ}\!\mathbb{C}$ -40 +85 condition Storage $^{\circ}$ C -55 +105 Temperature Relative 5 85 Humidity Pressure 70 106 Kpa Environmental Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010. Conditions ESD Level Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C. Moisture Level 2. Sensitivity Level



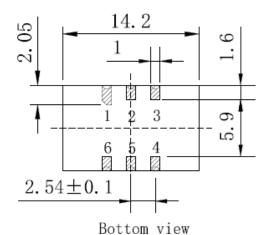
Guangdong Dapu Telecom Technology Co., Ltd

http://www.dptel.com

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098

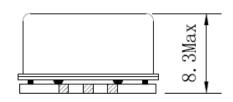


2. Mechanical Structure (mm)





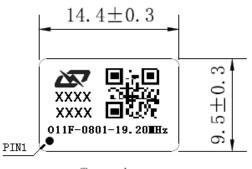
Right view



Side view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1	NC	Not Connect
2,5	NC	Not Connect
3	GND	GND
4	OUTPUT	RF Output
6	VCC	Supply Voltage



Top view

Note1: Tolerance ± 0.20mm without mark

Note2: The first two xx representative: year.

After two xx representative: week.

At last four xxxx representative: serial number.

Two dimensional code marking rules:

Material code + space + brand + space + batch (year week) + space + serial number.

The customer's material code is 030062000051

Take 62 in the middle and the last three digits as the material code number in the two dimensional code.

Note3: Referential weight 2.4g

Note4: NC is not connect



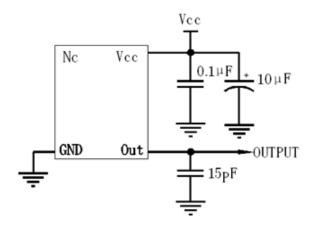
Guangdong Dapu Telecom Technology Co., Ltd

http://www.dptel.com

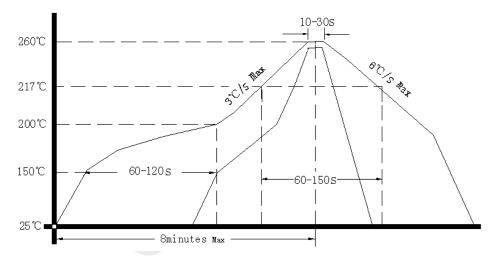
Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China TEL:0086-0769-88010888 FAX:0086-0769-81800098



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



Passing through reflow upside down is not supported

5. Package: Tape & Reel (mm)

