Customer Code : A021

DATASHEET

DAPU P/N: **CM11Z-2101-25.00MHz**

Customer P/N:

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2016.05.26			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg 16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

Bldg 16,.N.Ind.Zone,SSL Industry Park,
Dongguan City, Guangdong Province,
PR 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	2016.05.26

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PR China
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1、 Electrical Parameters

Parameters	Symbol	Electrical Spec.				Notes
		Min.	Typ.	Max.	Units	
Iuput						
RF Input Frequency	F_{IN}	Free Run Mode			MHz	Sel = 1
			25.00			Sel = 0
RF Input Level	V_{IN}	0.8		3.3	V	AC coupled internally
Output						
Frequency			25.00		MHz	
Output Waveform		LVCMOS				
Output High Voltage	V_{OH}	3.2		3.3	V	V_{cc}= 3.3V, I_{OH} = 8 mA
Output Low Voltage	V_{OL}	0.0		0.3	V	V_{cc}= 3.3V, I_{OL} = 8 mA
Rise / Fall Time	T_r/ T_f			0.6	ns	20%-80%
Duty cycle		45	50	55	%	@50%
Start-up Time	T_S		2	10	ms	
Jitter			200	300	fs	RMS(12KHz to 20MHz)
Frequency Stabilities						
Free run Accuracy		-60		60	ppm	-40℃ to +85℃
Supply Voltage						
Supply Voltage	V_{CC}	3.15	3.3	3.45	V	
Input Current	I_{CC}		30	40	mA	
Control Characteristics						
Absolute Pull Rang	APR	±100			ppm	
Modulation BW	BW	30			Hz	
Phase Noise						
Phase Noise	Φn		-102	-92	dBc/Hz	100Hz
			-131	-126		1kHz
			-149	-144		10kHz
			-153	-148		100KHz
			-160	-155		1MHz

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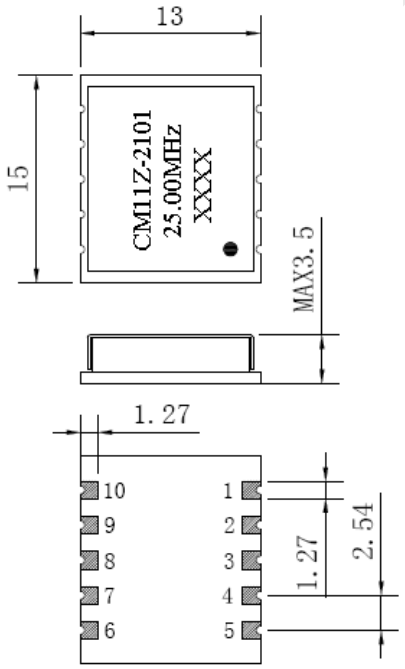
Environmental Conditions						
Operating Temperature	T_{OP}	-40	~	+85	℃	
Storage Temperature	T_{ST}	-55	~	+105	℃	
Mechanical Shock	Per MIL-STD-202,Method 213,Condition E					
Thermal Shock	Per MIL-STD-883,Method 1011,Condition A					
Soldering Conditions	Per MIL-STD-883,Method 2007,Condition A					
Shock	Leak rate less than 5 $\times 10^{-8}$atm.cc/s of helium (crystal only)					

2、 Mechanical Structure(mm)

Pin #	Description
1	Fin
2	N/C
3	Sel
4	V_{CC}
5	Gnd
6	F_{OUT} 2
7	F_{OUT} 1
8	N/C
9	V_{CC}
10	Gnd



Note1: Tolerance ±0.2mm without mark

Note2: N/C is not connect

Note3: The first two xx representative: week
After two xx representative: year

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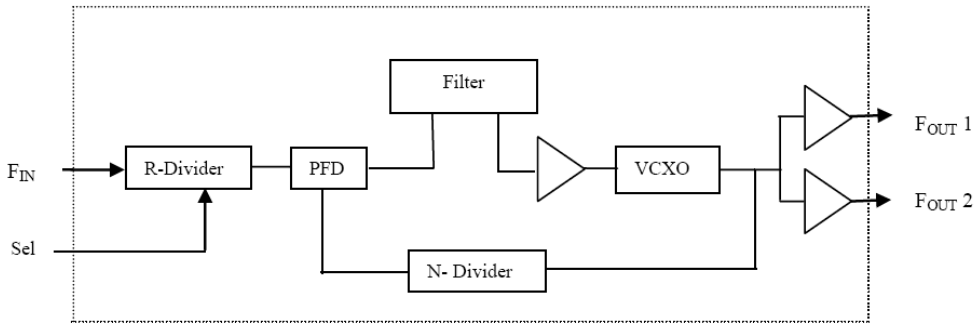
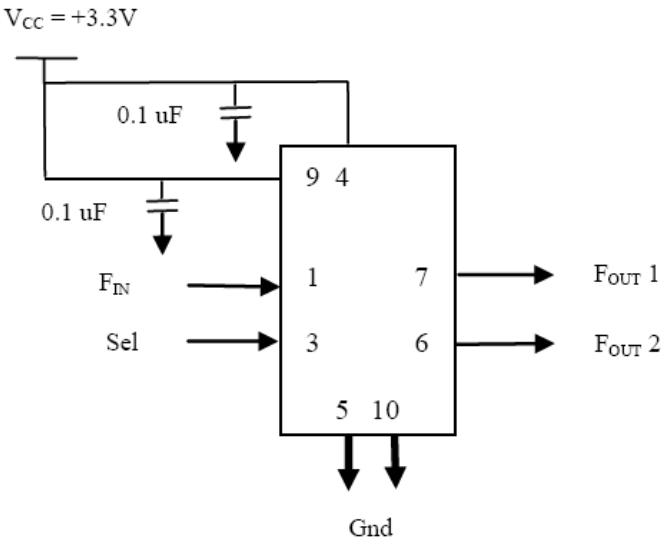
3、Block Diagram



4、Test circuit



5、Reflow Soldering Curve (RoHS)