Customer Code : A021

DATASHEET

DAPU P/N: **CM11Z-2101-156.25MHz**

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

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2016.05.26

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1、 Electrical Parameters

Parameters	Symbol	Electrical Spec.				Notes
		Min.	Typ.	Max.	Units	
Input						
RF Input Frequency	F_{IN}	Free Run Mode			MHz	S1:S0=00
			25.00			S1:S0=01
			125.00			S1:S0=10
			156.25			S1:S0=11
RF Input Level	V_{IN}	0.8		3.3	V	AC coupled internally
Enable /Disable Function	Input HIGH (＞2.5V)Output Disabled (Fout=0; nFout=1) Input LOW(＜0.5V)or floating:output Enabled					LVCMOS
Enable /Disable Time	Te/Td			100	ns	
Output						
Frequency			156.25		MHz	
Output Waveform		LVPECL				
Output High Voltage	V_{OH}	2.34		2.49	V	Vcc=3.3V, 50 Ohm to Vcc-2V or Thevenin Equivalent
Output Low Voltage	V_{OL}	1.45		1.65	V	
Rise / Fall Time	T_r/ T_f			0.6	ns	20%-80%
Duty cycle		45	50	55	%	@50%
Start-up Time	T_S			3	s	
Jitter			0.2	0.5	ps(ms)	RMS(12KHz to 20MHz)
Frequency Stabilities						
Free run Accuracy		-35		35	ppm	-40℃ to +85℃
Supply Voltage						
Supply Voltage	V_{CC}	3.15	3.3	3.45	V	
Input Current	I_{CC}		45	55	mA	
Control Characteristics						
Absolute Pull Rang	APR	±32			ppm	
Modulation BW	BW	10			Hz	

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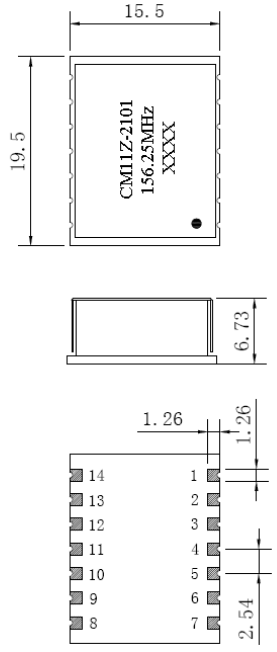
Phase Noise						
Phase Noise	Φn		-100	-90	dBc/Hz	100Hz
			-130	-125		1kHz
			-145	-140		10kHz
			-150	-145		100KHz
Environmental Conditions						
Operating Temperature	T_{OP}	-40	~	+85	℃	
Storage Temperature	T_{ST}	-55	~	+105	℃	
Mechanical Shock	Per MIL-STD-202,Method 213,Condition E					
Thermal Shock	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	DNC
3	Vccp
4	Vcc
5	S1
6	DNC
7	S0
8	Gnd
9	N/C
10	Disable
11	nFout
12	Fout
13	N/C
14	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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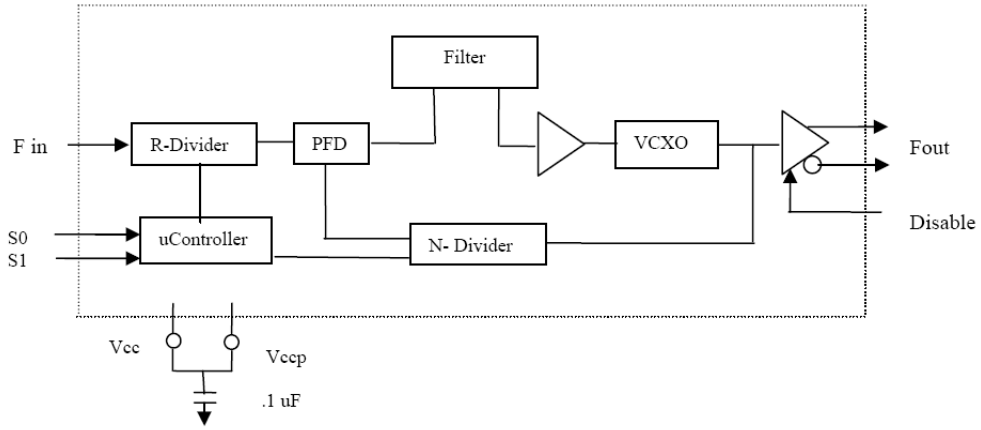
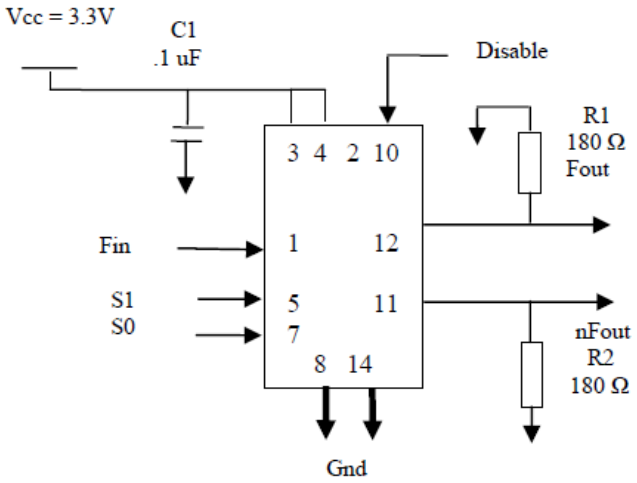
3、Block Diagram



4、Test circuit



5、Reflow Soldering Curve (RoHS)