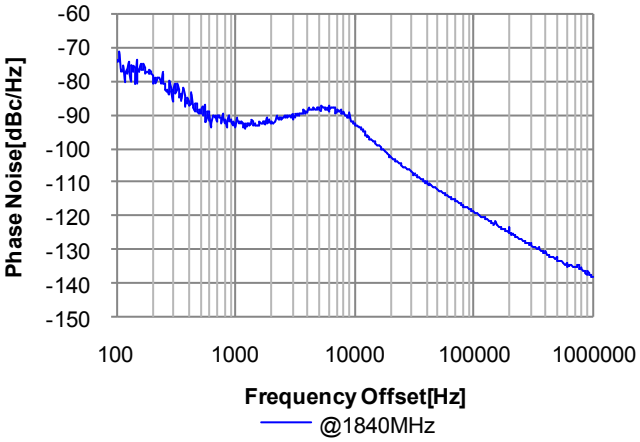
PLL Synthesizer NCFPS3-1840

Rev. A

Features

- 3 wire serial Fractional PLL
- Sub-Compact Size 0.6”x0.6”x0.15”
- Low phase noise (typ. –88@1kHz)
- Programming : ADF4156(ADI)



Applications

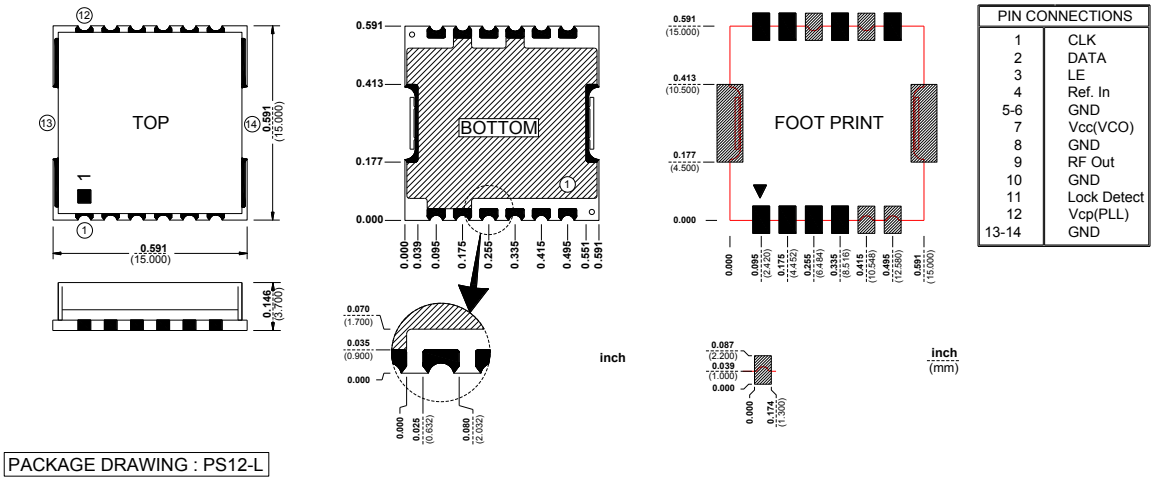
- SATCOM radio link
- Receiver
- Test Equipment
- Radar
- Point-to-Point radio
- MMDS
- WiMAX

Electrical Characteristics

RoHS COMPLIANT

Parameter		Units	Min	Typ	Max
Operating Frequency Range		MHz	1800		1880
Step Size		kHz		100	
Settling Time		msec		0.88	
Output Power		dBm	+1.0	+3.0	+5.0
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc/Hz		-88	-83
	@10kHz offset	dBc/Hz		-92	-87
	@100kHz offset	dBc/Hz		-118	-113
	@1MHz offset	dBc/Hz		-138	-133
2nd Harmonic Suppression		dBc		-25	-20
Sideband Spurious Suppression		dBc			-65
Reference	Input Frequency	MHz	10		250
	Input Level	dBm	-5		+5
VCO Power Supply (Vcc)	Voltage	Vdc		5.0	
	Current	mA		40	50
PLL Power Supply (Vcp)	Voltage	Vdc		5.0	
	Current	mA		10	15
Operating Temp. Range		°C	-40		+85

Dimensions



PIN CONNECTIONS	
1	CLK
2	DATA
3	LE
4	Ref. In
5-6	GND
7	Vcc(VCO)
8	GND
9	RF Out
10	GND
11	Lock Detect
12	Vcp(PLL)
13-14	GND

PACKAGE DRAWING : PS12-L

Your solutions partners!
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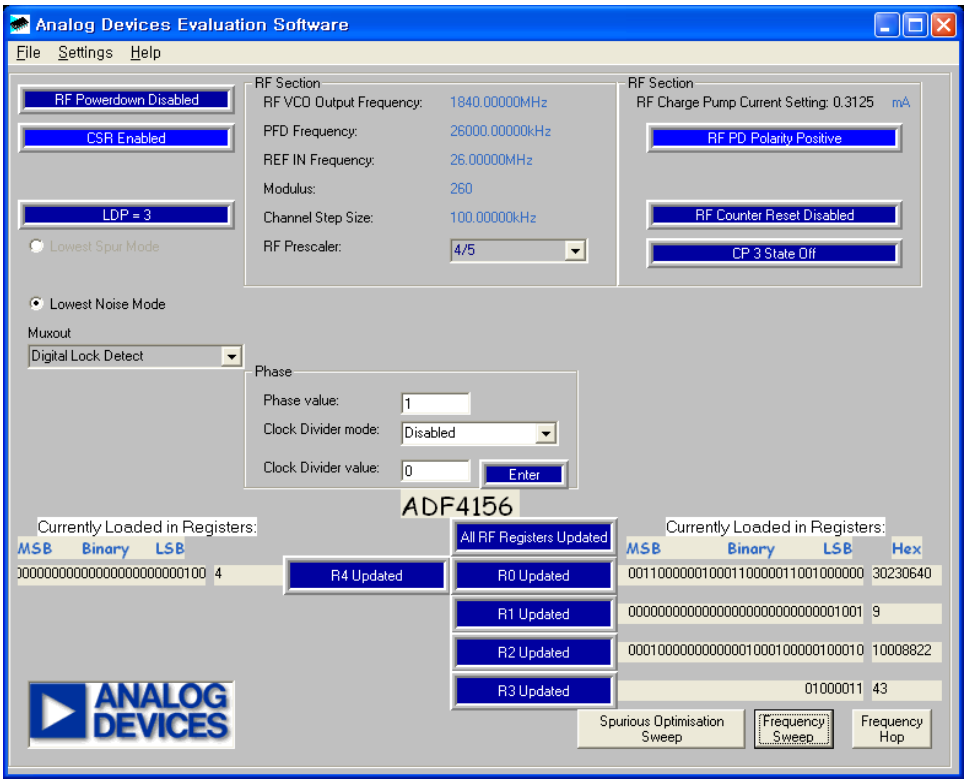
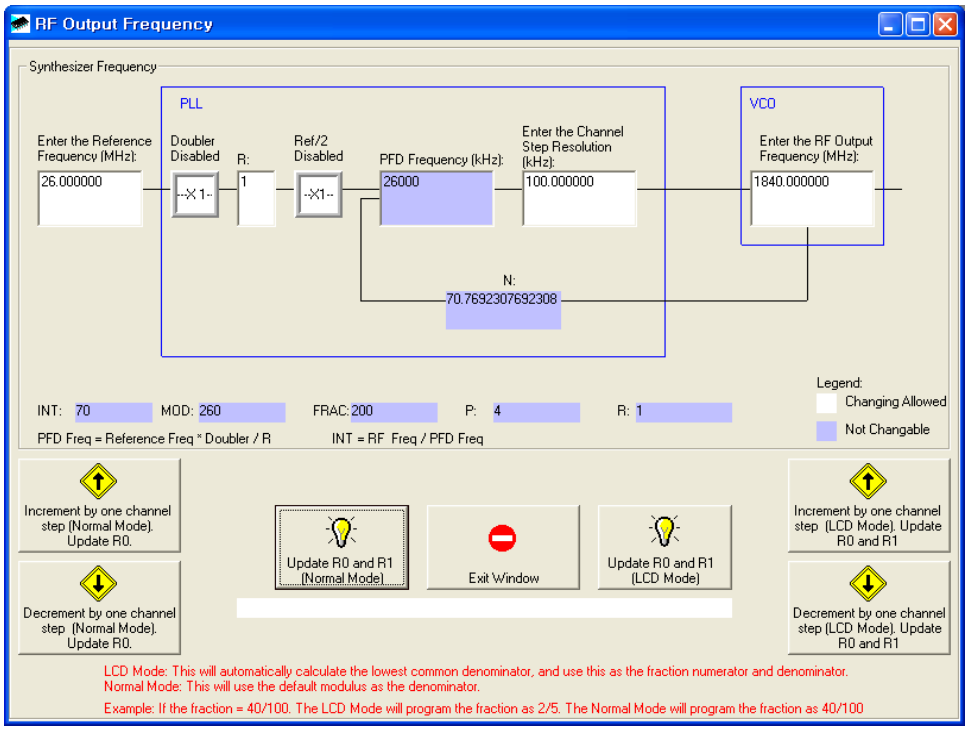
#405, Cheonan Technotown, 5-2, Chaam-dong, Cheonan, Chungnam, 330-200, Korea
Tel : +82-41-621-4450 Email : sales@roswin.com www.roswin.com

Programming Setting - ADF4156(ADI)





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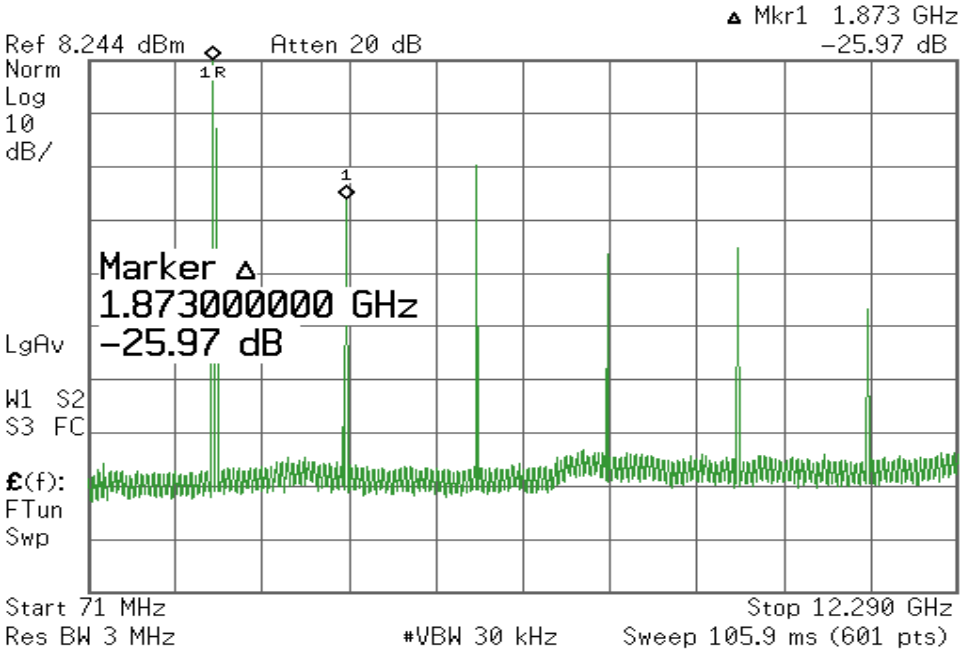
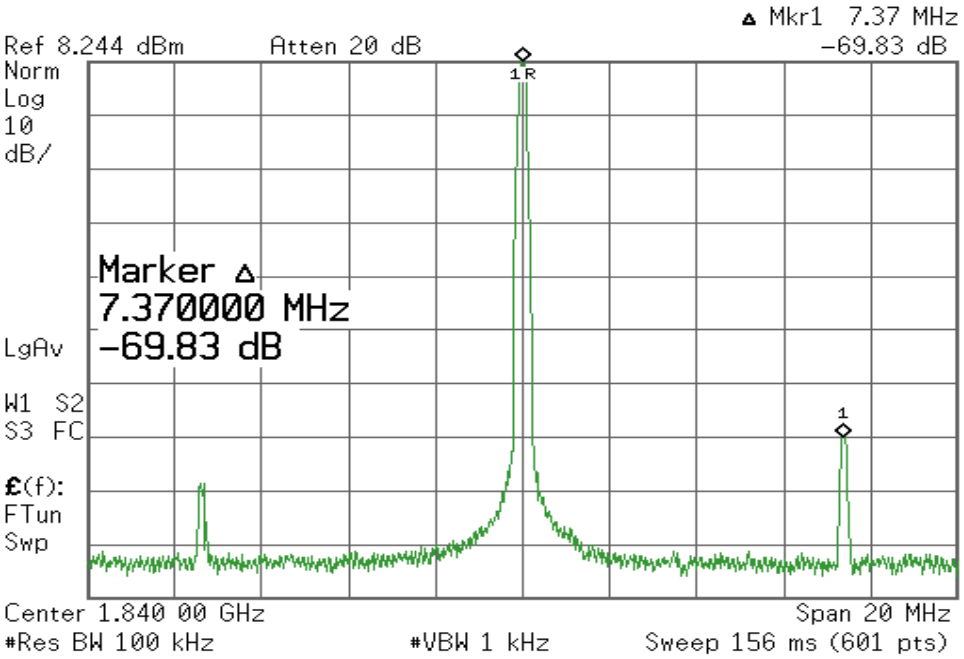
Harmonic Suppression



Sideband Spurious Suppression



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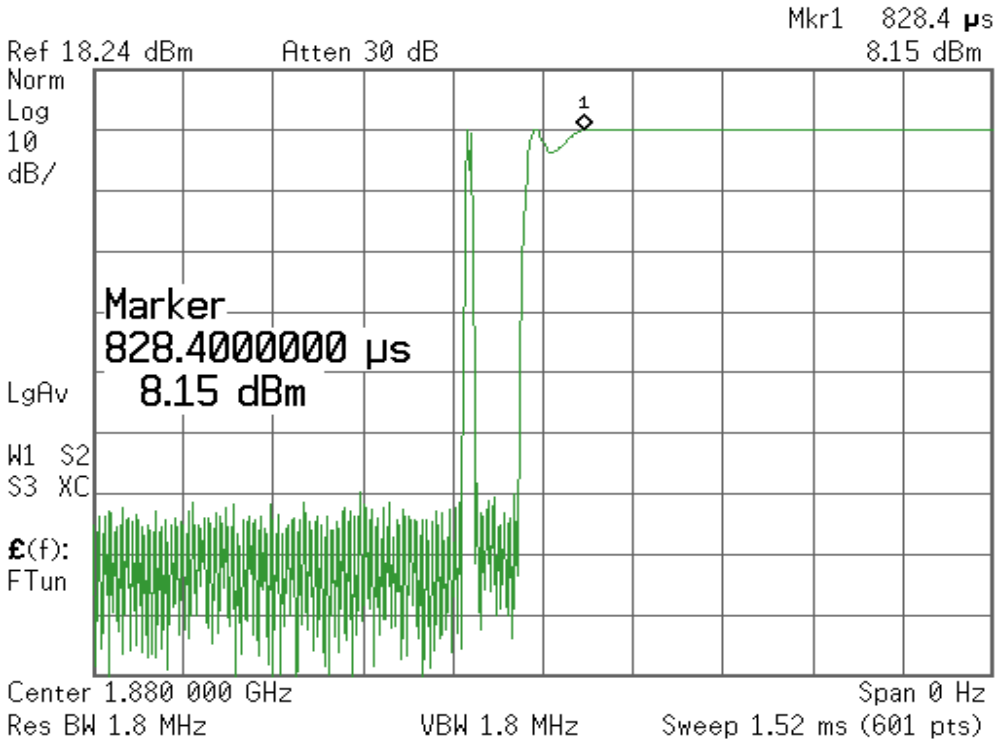
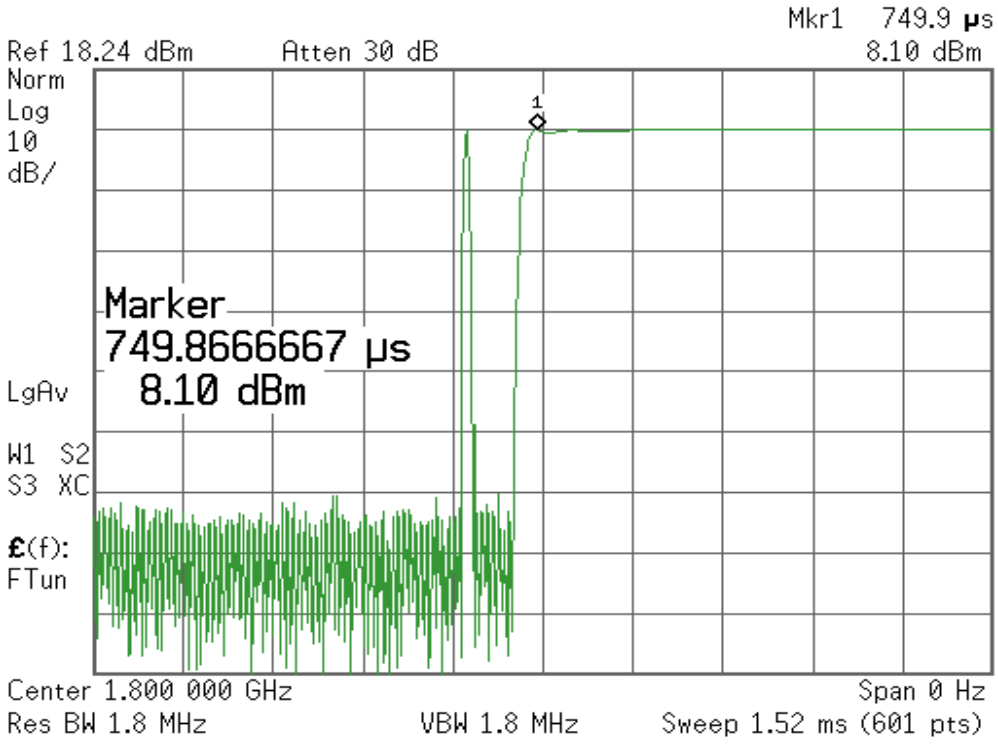
Lock Time (1800MHz➔1880MHz)



Lock Time (1880MHz➔1800MHz)



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