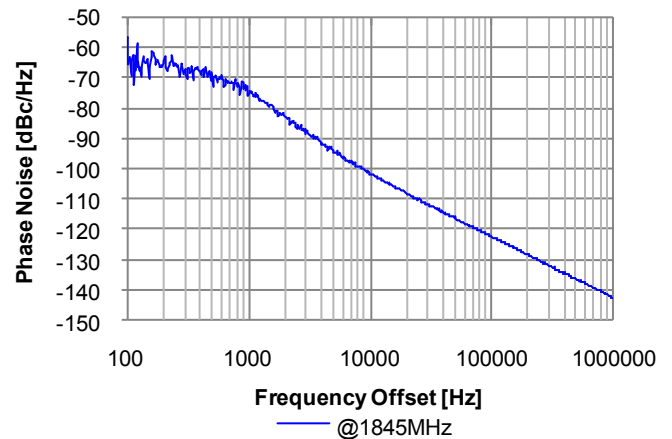


Features

- 3 wire serial integer PLL
- Small Size 0.55"x0.57"x0.13"
- Low phase noise
- Programming : ADF4118(ADI)

Applications

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

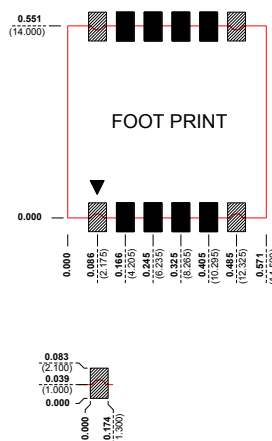
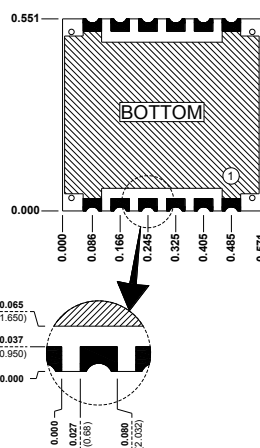
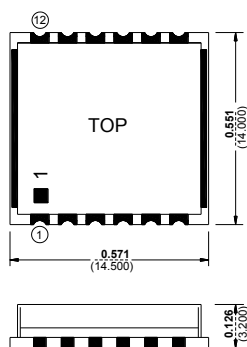


Electrical Characteristics



Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1815		1875
Step Size	kHz		50	
Settling Time	msec		10	30
Output Power	dBm	0.0	+2.0	+4.0
Output Impedance	Ω		50	
Phase Noise	@1kHz offset	dBc/Hz	-71	-66
	@10kHz offset	dBc/Hz	-101	-96
	@100kHz offset	dBc/Hz	-122	-117
	@1MHz offset	dBc/Hz	-142	-137
2nd Harmonic Suppression	dBc		-35	-20
Sideband Spurious Suppression	dBc			-75
Reference	Input Frequency	MHz	5	100
	Input Level	dBm	-5	+5
VCO Power Supply (Vcc)	Voltage	Vdc	5	
	Current	mA	25	35
PLL Power Supply (Vcp)	Voltage	Vdc	5	
	Current	mA	5	10
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

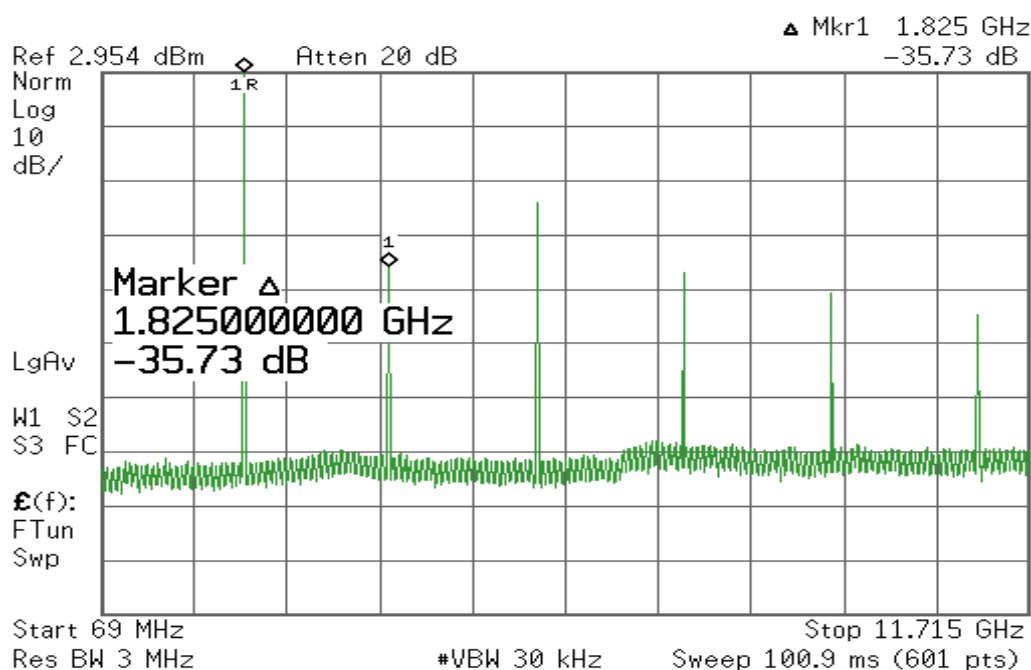
Dimensions



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

PACKAGE DRAWING : PM12-L

Harmonic Suppression



Sideband Spurious Suppression

