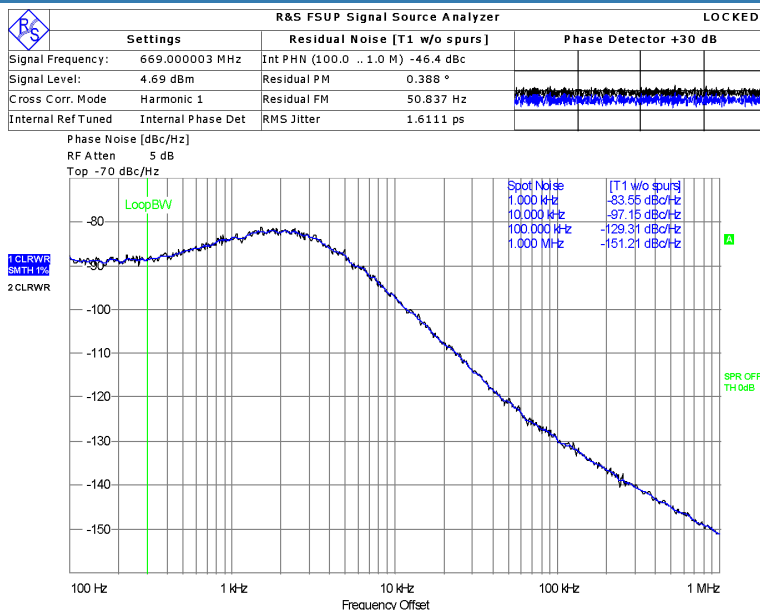
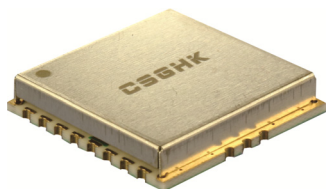




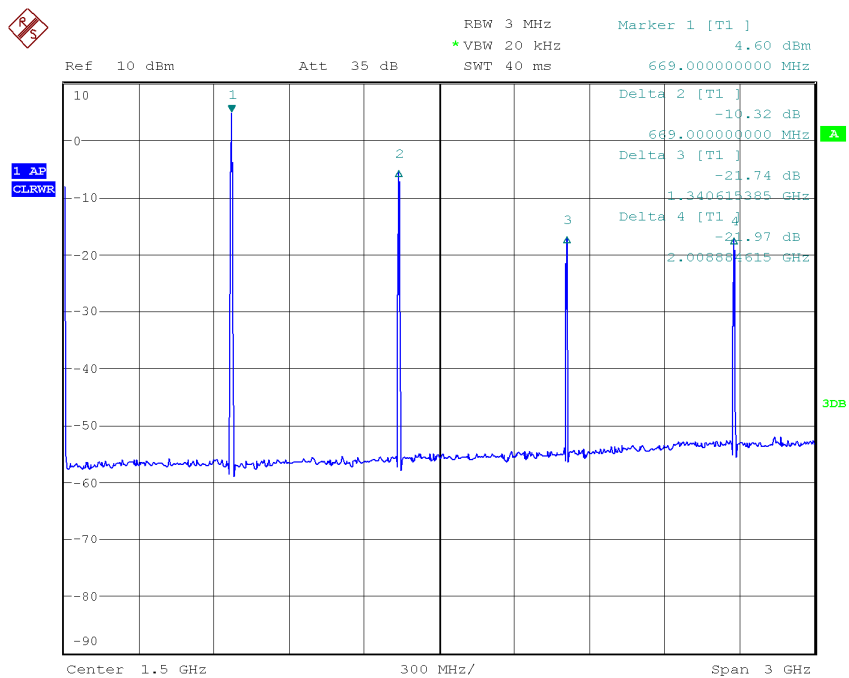
FEATURES

- ◆ Low Phase Noise
- ◆ Fast Settling Time
- ◆ Small Size, Surface Mount
- ◆ Integrated VCO, PLL IC, Loop Filter

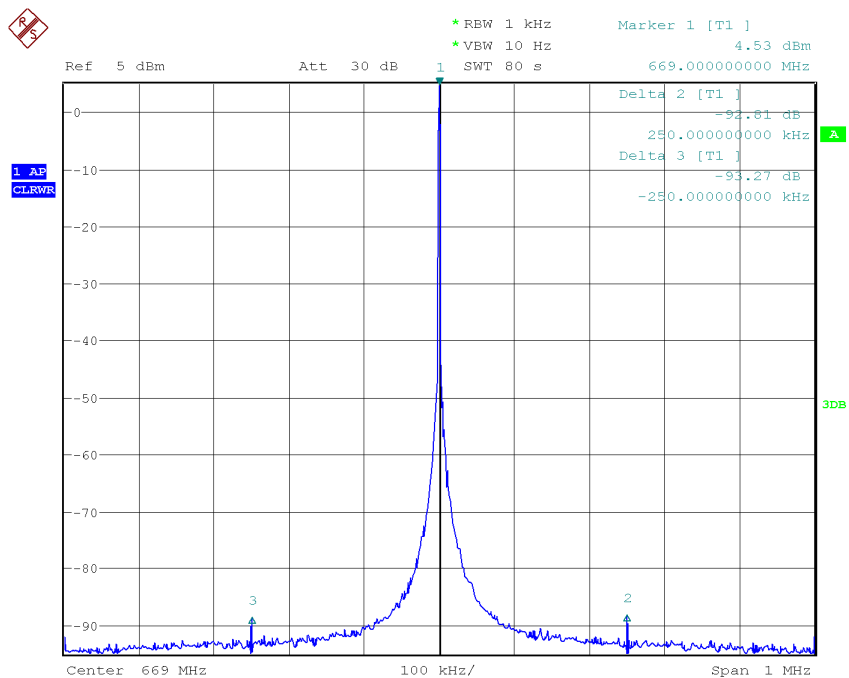
APPLICATIONS

- ◆ Commercial Wireless Applications

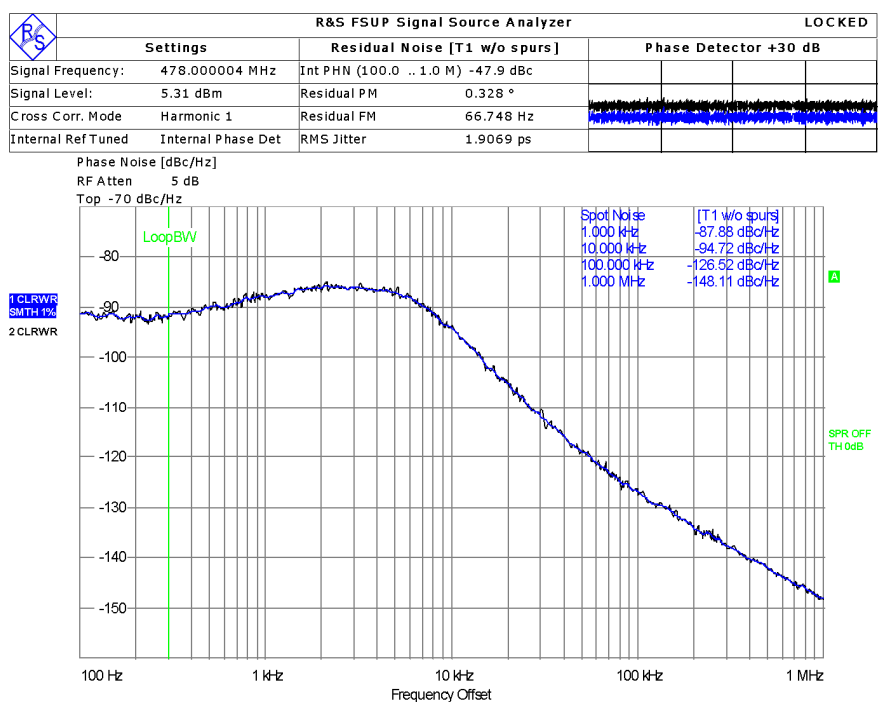
Parameter	Min	Typ	Max	Units
Frequency Range -	478		860	MHz
Step Size		250		KHz
Startup Lock Time		3.4		ms
Charge Pump Output Current		0.638		mA
Output Power -	2.0		6.0	dBm
Phase Noise:				
1 kHz		-82	-77	dBc/Hz
10 kHz		-97	-94	dBc/Hz
100 kHz		-127	-123	dBc/Hz
Spurious Product - 250KHz		-80	-70	dBc
Reference Feedthrough -		-80	-70	dBc
Harmonic Suppression -2nd		-10		dBc
Output Impedance -		50		Ω
OperatingTemperature Range	-40		+85	℃
Package Type	PLL-25A(19.05X19.05X3.5mm)			
POWER SUPPLY REQUIREMENTS				
Supply Voltage (VCO)	11.75	12	12.25	Vdc
Supply Voltage (CHIP)	4.75	5	5.25	Vdc
Supply Current (VCO)		22	25	mA
Supply Current (CHIP)		11	15	mA
NOTES				
Reference Iput Frequency	5		150	MHz
Reference Iput Voltage	0.4		3.0	Vp-p
Frequency Synthesizer IC	ADF4113HV			



Date: 20.OCT.2009 10:30:54

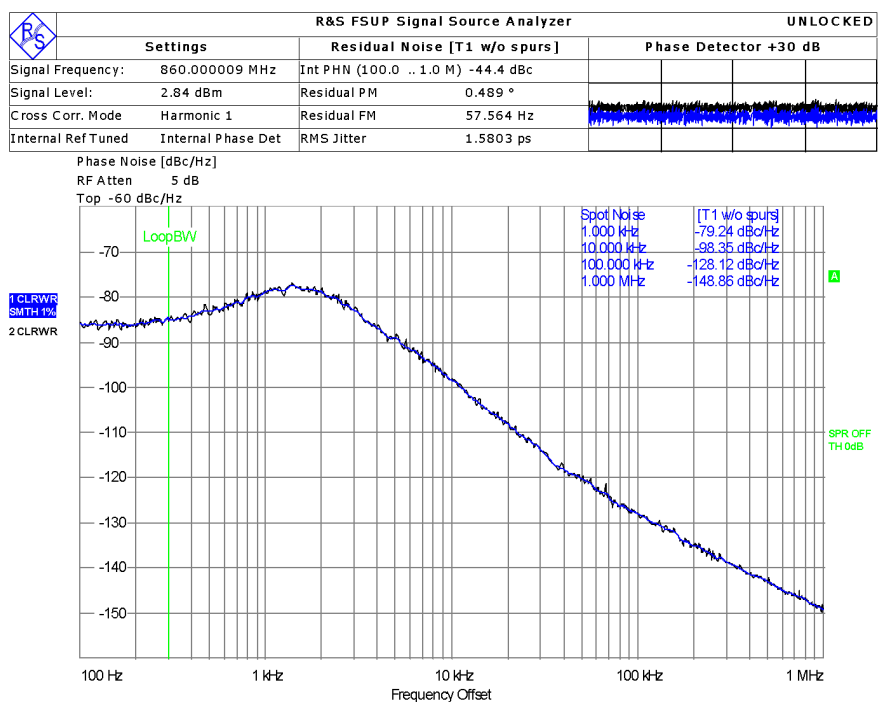


Date: 20.OCT.2009 10:34:07



Measurement Aborted

Date: 20.OCT.2009 10:22:34



Measurement Aborted

Date: 20.OCT.2009 10:28:01

REVISIONS

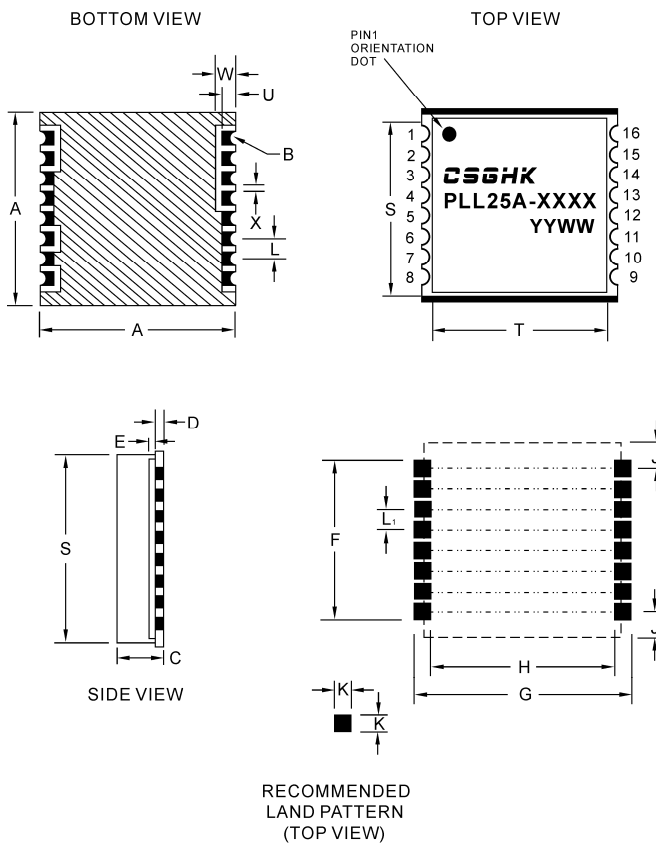
NOTE: UNLESS OTHERWISE SPECIFIED:

1. THE METAL CASE IS GROUND
2. ALL HALF VIA CONTACTS ARE PLATED THRU FOROM THE PAD ON THE TOP SIDE TO THE PAD ON THE BOTTOM SIDE OF THE BOARD.
3. HATCHED AREAS GROUND AND ARE COVERED WINTH LPI SOLDER MASK OVER BARE COPPER. ALL CONTACT AREAS ARE PLATED. SIGNAL VIAS MAY BE LOCATED WITHIN GROUND PLANE.
4. SUBSTRATE MATERIAL: FR-4
5. XXXX PEPRFSENTS THE MODEL NUMBER.
6. YYWW IS THE DATA CODE.

PIN OUT FOR PLL

PIN	APPLICATION	PIN	APPLICATION
1	OSC IN	9	VCC (VCC)
2	ENABLE	11	RF OUT
3	DATA	15	VCC (CHIP)
4	CLOCK	16	LOCK DETECT

ALL OTHER PINS ARE GROUND



SYMBOL	DIMENSION	
	MILLIMETERS	INCHES
A	19.05±0.25	0.75±0.010
B	R=0.50	R=0.020
C	3.50	0.138
D	0.99MAX	0.039MAX
E	0.60	0.023
F	15.75	0.620
G	20.57	0.810
H	17.53	0.690
J	2.41	0.095
K	1.50	0.059
L	2.00±0.05	0.080±0.002
L ₁	2.00	0.080
S	18.03	0.710
T	18.19	0.716
U	1.28	0.050
W	1.78	0.070
X	0.51	0.020

	APPROVALS	DATA	 PLL-25A PACKAGE MECHANICAL PCB OUTLINE
DRAWN BY			
CHECKED BY			
PROCESS ENG			
QUALITY			
APPROVAL			

