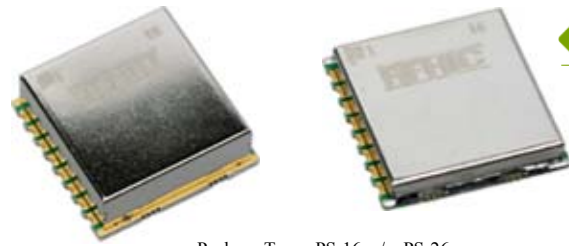# PLL Synthesizer   PLT Series   RFHIC

Product Features

• PLL + VCO+TCXO Type
• Excellent Phase Noise
• Low Spurious
• Surface Mount Package
• RF Frequency up to 5.8GHz
• 5.0V DC Power Supply
• Internal Crystal Reference Clock
  (-30°C~+80°C:2.5PPm Tolerance)
• Pb Free / RoHS Compliant

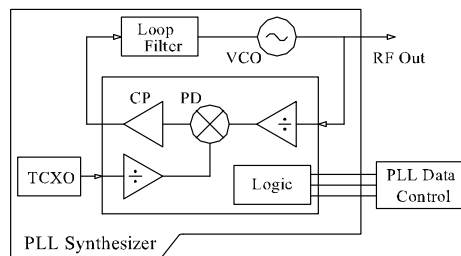Package Type : PS-16 / PS-26

PS-32 / PS-42

Application

• Wireless Communication System
• Base Station
• Cable Telephone, TV
• Others Wireless Communication System

Series View

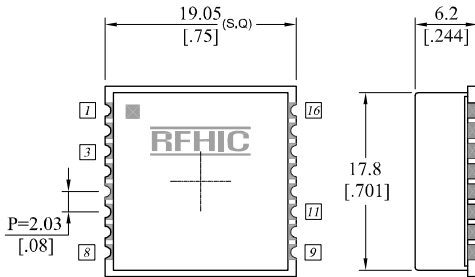• T : TCXO included

Test Configuration

Specifications

(Operating Temperature:-30°C~+80°C)

PARAMETER	SPECIFICATION	UNIT	CONDITION
Storage Temperature	-40 ~ +85	°C	
Operating Temperature	-30 ~ +80	°C	
Frequency	10 ~ 5800	MHz	
Supply Voltage VCC (PLL) / VCC (VCO)	3 ~ 5	V	
Reference Frequency	5 ~ 40	MHz	
Channel Step	10 ~ 10000	KHz	
Output Power	-3 ~ +7	dBm	
Current Consumption	40	mA / Max	
Spurious	-70	dBc / Max	
Lock Time	0.1 ~ 30	ms	
Phase Noise	-105	dBc/Hz	@ 10 KHz Offset
Output Impedance	50	Ω	

▪ Tel : 82-31-250-5011
▪ rfsales@rfhic.com
▪ All specifications may change without notice.
▪ Version 5.2

Package Dimensions

PS-16 type

Unit : $\frac{mm}{[inch]}$	Tolerance : $\pm\frac{0.2}{.008}$

PLV Series Pin Assignment					
1	Clock	2	Data	3	Enable
4	Ref. IN	9	VCC(VCO)	13	RF Out
15	VCC (PLL)	16	Lock Detect	All other pins are GND	

PLT Series : 4pin N.C

PLF Series : 1,2,3pin GND
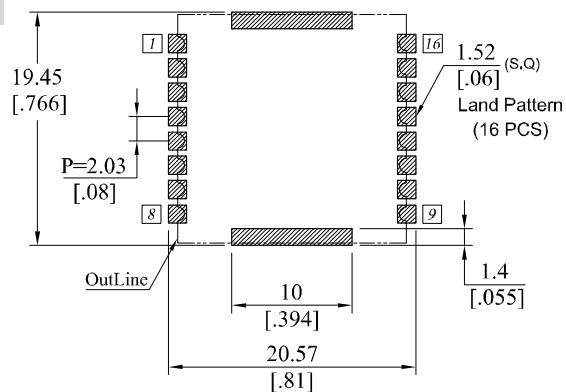
PLA series : 1,2,3pin GND & 4pin N.C

PS-26 Type

PLV Series Pin Assignment					
1	Clock	2	Data	3	Enable
4	Ref. IN	9	VCC(VCO)	13	RF Out
15	VCC (PLL)	16	Lock Detect	All other pins are GND	

PLT Series : 4pin N.C

PLF Series : 1,2,3pin GND

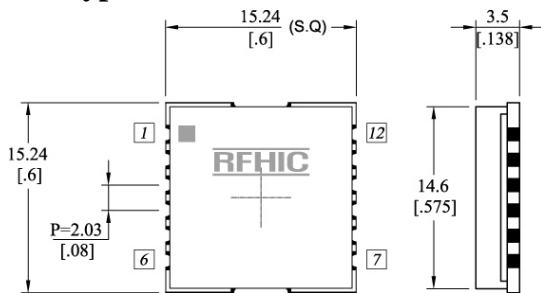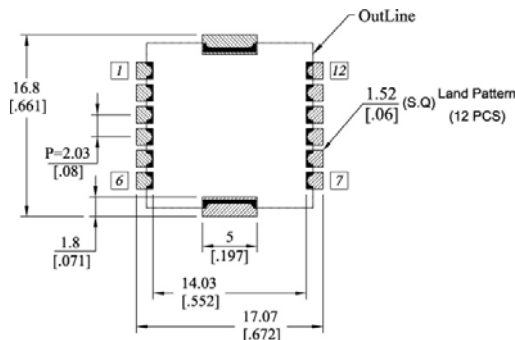PLA series : 1,2,3pin GND & 4pin N.C

Recommended Pattern

▪ Tel : 82-31-250-5011   ▪ All specifications may change without notice.

▪ rfsales@rfhic.com   ▪ Version 5.2

PS-32 type
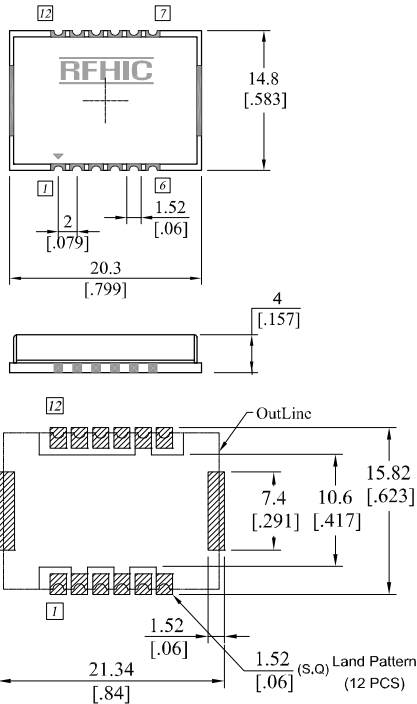
PLV Series Pin Assignment					
1	VCC(PLL)	3	Ref. IN	5	VCC(VCO)
7	RF Out	9	LD	10	Clock
11	Data	12	Enable	All other pins are GND	

Recommended Pattern

PS-42 type

PLV-K Series Pin Assignment					
1	Clock	2	Data	3	Enable
4	Ref. IN	7	VCC(VCO)	10	RF Out
11	VCC (PLL)	12	Lock Detect	All other pins are GND	

PLT Series : 4pin N.C

PLF Series : 1,2,3pin GND

PLA series : 1,2,3pin GND & 4pin N.C

Recommended Pattern

PLV-S Series Pin Assignment					
1	Clock	2	Data	3	Enable
4	Ref. IN	7	VCC(VCO)	9	RF Out
11	Lock Detect	12	VCC(PLL)	All other pins are GND	

PLT Series : 4pin N.C

PLF Series : 1,2,3pin GND

PLA series : 1,2,3pin GND & 4pin N.C