

Features

- 3 dBm Output Level at 1810 MHz
- Channel Step Size : 25 kHz
- 2nd Harmonic : < -20 dBc
- Spurious Level : < -60 dBc
- Lock Time : < 10 ms
- 40 mA Current Consumption

Description

The plerow™ PLL synthesizer module was designed for use in wireless and wireline systems in a wide range of frequency from 50 MHz to 6 GHz. ASB's PLL provides exceptionally low spurious and phase noise performance with fast locking time and low current consumption. All products are available in a surface-mount type package.



Specifications

Parameter	Unit	Min.	Typical	Max.
Frequency Range	MHz	1780	1810	1840
Output Power	dBm	1	3	5
Supply Voltage	V	4.75	5	5.25
Current Consumption	mA			40
Channel Step Size	kHz		25	
2 nd Harmonics	dBc			-20
Spurious Level	dBc			-60
Lock Time	ms		5	10
Reference Frequency (Internal)	MHz		13	
Reference Input Level	dBm			
Phase Noise (C / N)				
@ 1 kHz	dBc/Hz		-70	-60
@ 10 kHz			-100	-90
@ 100 kHz			-120	-110
Output Impedance	Ω		50	
Operating Temp. Range	°C	-40	25	85
Package Type & Size	mm	SMT, 19.0W×19.0L×5.8H		

1) Measurement conditions are as follows: T = 25°C, V_{CC} = 5 V, Freq. = 1810 MHz, 50 ohm system.

2) Frequency stability of internal ref. TCXO is +/- 2.5 ppm (max.) over the operating temperature range.

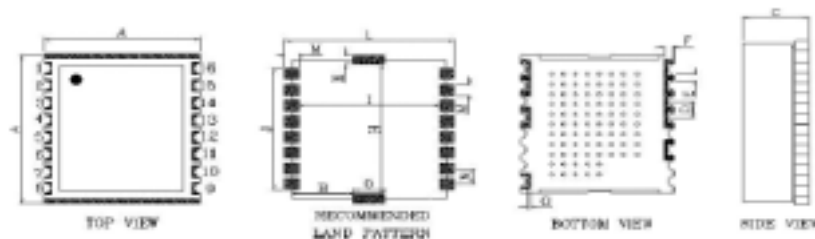
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Outline Drawing



Dimension (unit : mm) ±0.02														
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
19.0 ±0.1	5.5	5.8	2.03	0.51	1.35	0.45	17.0	16.3	15.75	2.0	20.6	1.52	2.03	8.0

Pin Description			
Pin No.	Application	Pin No.	Application
1	CLOCK	9	VCC(VCO)
2	DATA	13	RF OUT
3	ENABLE	15	VCP(PLL)
4	GND	16	LOCK DETECT
All other Pins are Grounded / Internal TCXO			