

## Features

- 4 dBm Output Level at 814.5 MHz
- Channel Step Size : 10 kHz
- 2<sup>nd</sup> Harmonic : < -20 dBc
- Spurious Level : < -65 dBc
- Lock Time : < 10 ms
- Current Consumption : < 35 mA

## 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	789		840
Output Power	dBm	2	4	6
Supply Voltage	V	4.75	5	5.25
Current Consumption	mA		20	35
Channel Step Size	kHz		10	
2 <sup>nd</sup> Harmonics	dBc		-25	-20
Spurious Level	dBc		-70	-65
Lock Time	ms		5	10
Reference Frequency	MHz		10	
Reference Input Level	dBm		0	
Phase Noise (C / N)				
@ 1 kHz	dBc/Hz		-74	-68
@ 10 kHz			-104	-100
@ 100 kHz			-120	-115
Output Impedance	Ω		50	
Operating Temp. Range	°C	-40	25	80
Package Type & Size	mm	SMT, 19.0W×19.0L×5.8H		

1) Measurement conditions are as follows: T = 25°C, V<sub>CC</sub> = 5 V, Freq. = 814.5 MHz, 50 ohm system.

## More Information

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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	OSC IN	16	LOCK DETECT
All other Pins are Grounded			