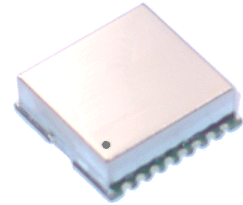


### Features

- +4 dBm Output Level at 2305 MHz
- Channel Step Size : 200 kHz
- 2<sup>nd</sup> Harmonic : < -20 dBc
- Spurious Level : < -70 dBc
- Lock Time : < 10 ms
- 25 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	2295	2305	2315
Output Power	dBm	3	4	5
Supply Voltage	V	4.7	5.0	5.3
Current Consumption	mA		25	35
Channel Step Size	kHz	50	1000	2500
2 <sup>nd</sup> Harmonics	dBc		-30	-20
Spurious Level	dBc		-78	-70
Lock Time	ms		3	10
Reference Frequency	MHz		10	
Reference Input Level	dBm	-5	0	5
Phase Noise (C / N)				
@ 10 kHz	dBc/Hz	-107	-104	-101
@ 100 kHz	dBc/Hz	-123	-120	-117
Output Impedance	Ω		50	
Operating Temp. Range	°C	-40	25	85
Package Type & Size	mm	SMT, 19.0W×19.0L×5.8H		

### More Information

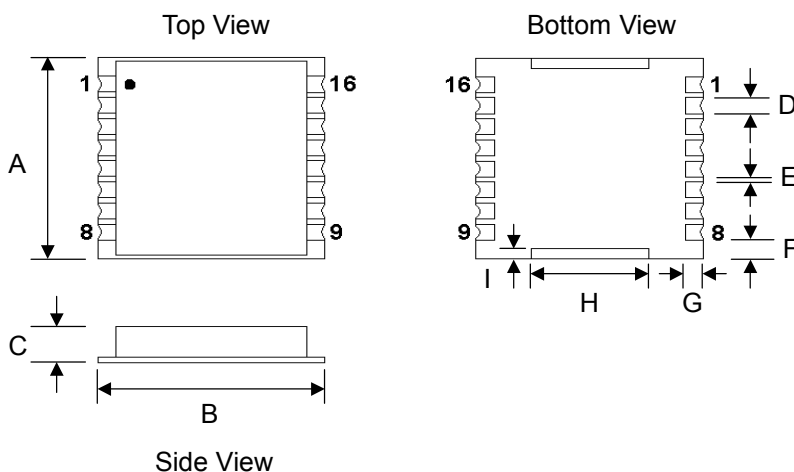
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Daejeon, 302-716, Korea

1) Measurement conditions are as follows: T = 25°C, V<sub>CC</sub> = 5 V, Freq. = 2305 MHz, 50 ohm system.

### Outline Drawing



Pin Configuration		Dimension (mm)	
1	CLOCK	A	19.0
2	DATA	B	19.0
3	ENABLE	C	5.8
4	OSC IN	D	1.5
9	VCC (VCO)	E	0.5
13	RF OUT	F	1.75
15	VCP (PLL)	G	1.35
16	LOCK DETECT	H	15.0
Others	Ground	I	0.9
		Tolerance: ± 0.2	