

Features

- +3 dBm Output Level at 470 MHz
- Channel Step Size : 100 kHz
- 2nd Harmonic : < - 20dBc
- Spurious Level : < -70dBc
- Lock Time : < 10 ms
- 30 mA Current Consumption
- Strip-line Resonator

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	465	470	475
Output Power	dBm	1	3	5
Supply Voltage	V		5	
Current Consumption	mA		23	30
Channel Step Size	kHz		100	
2 nd Harmonics	dBc		-25	-20
Spurious Level	dBc		-75	-70
Lock Time	us		3	10
Reference Frequency	MHz		10	
Reference Input Level	dBm	-4	0	5
Phase Noise (C / N)				
@ 1 kHz			-80	-75
@ 10 kHz	dBc/Hz		-105	-102
@ 100 kHz			-120	-115
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} = 5.0 V, Freq. = 335 MHz, 50 ohm system.

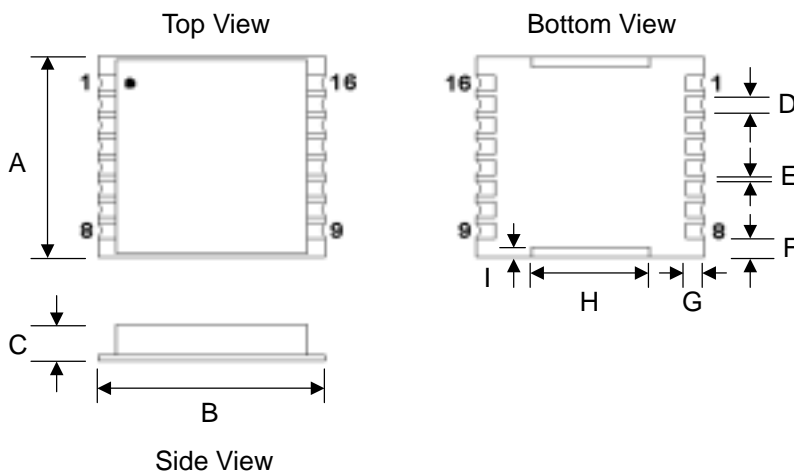
More Information

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Outline Drawing



Pin Configuration	
1	CLOCK
2	DATA
3	ENABLE
4	OSC IN
9	VCC (VCO)
13	RF OUT
15	VCP (PLL)
16	LOCK DETECT
Others	Ground

Dimension (mm)	
A	19.0
B	19.0
C	5.8
D	1.5
E	0.5
F	1.75
G	1.35
H	15.0
I	0.9

Tolerance: ± 0.2