

Features

- 4 dBm Output Level at 160 MHz
- Channel Step Size : 100 kHz
- 2nd Harmonic : < -15 dBc
- Spurious Level : < -70 dBc
- 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	150	160	170
Output Power	dBm	1	4	7
Supply Voltage	V	4.75	5	5.25
Current Consumption	mA		25	35
Channel Step Size	kHz		100	
2 nd Harmonics	dBc		-15	
Spurious Level	dBc		-70	
Reference Frequency	MHz		10	
Reference Input Level	dBm	2	5	
Phase Noise (C / N)		0	2	5
@ 1 kHz			-75	-70
@ 10 kHz	dBc/Hz		-105	-97
@ 100 kHz			-120	-115
Output Impedance	Ω		50	
Operating Temp. Range	°C	-30	25	80
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. = 909 MHz, 50 ohm system.

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

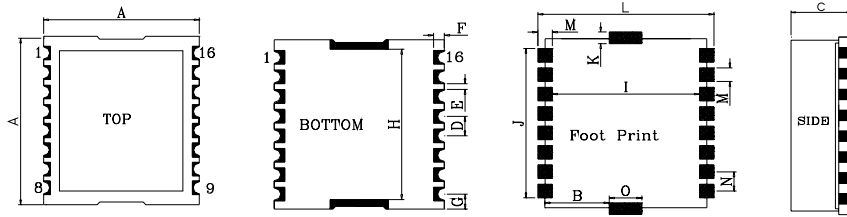
More Information

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Outline Drawing



Dimension (in mm)														
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 Configuration (All other pins not specified here are grounded)			
Pin No.		Pin No.	
1	CLOCK	9	VCC(VCO)
2	DATA	13	RF OUT
3	ENABLE	15	VCP(PLL)
4	OSC IN	16	LOCK DETECT