

## Dual Frequency, Phase Locked, Low Noise Block Down Converter

KS1316

### Features

- Internally Synthesized
- Low Noise Figure
- Internal Regulator/Active Bias
- Excellent Phase Noise



### Description

This Dual Frequency Low Noise Block Down Converter was designed for the High Speed Data market. The combination of low noise figure, and excellent phase noise results in high data transfer rates.



Model	KS1316		Units
	Band #1	Band #2	
Input Frequency	11.7-12.2	12.25-12.75	GHz
Output Frequency	950-1450	950-1450	MHz
L.O. Frequency	10.75	11.3	GHz
Gain (min)	30		dB
Flatness p-p (max)	0.3 any 2 MHz		dB
Noise Figure (max)	3.0		dB
VSWR in (max)	1.8:1		
VSWR out (max)	1.5:1		
Image Rejection	45		dB
Spurious	-88		dBm
Voltage	+18 +/- 2		VDC
Current	600		mA

Specifications at T = +25°C

Operating temperature: -55 to +70°C.

Storage temperature: -55 to +85°C

Input/Output Conn: SMA "F" / TNC "F"

#### Phase Noise

Offset	dBc/Hz
1 KHz	-70
10 KHz	-83
100 KHz	-93

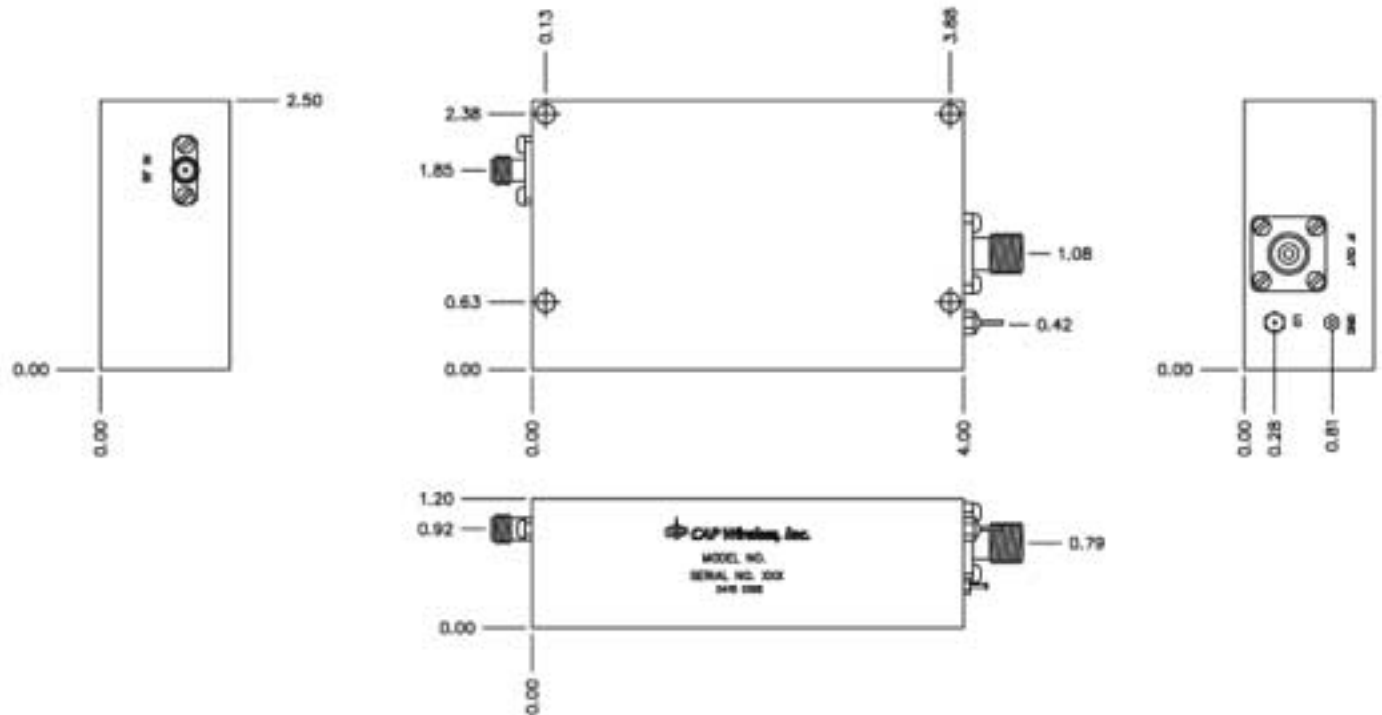


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Outline Drawing



### Company Design Philosophy

Essential to the company's strategy is the use of the latest and most sophisticated design software available. These design tools include complete suites of HP-EEsof, and AWR- Microwave Office, circuit and system high frequency EDA tools. The company consistently achieves its goal of accurately creating "prototypes" in software, as evidenced by its ability to go directly from a simulated design to deliverable prototypes and rapidly ramp to fulfill volume requirements. A crucial element of the company's development philosophy is to "design for production" to drastically improve manufacturability by virtually eliminating tuning and adjustments as part of the manufacturing process. The result is lower cost, higher reliability products with predictable delivery times.

The products shown on these data sheets are merely a representation of the company's capabilities, where a library of designs is available to draw upon to meet specific customer performance requirements. If you have a unique requirement, contact the factory to explore the latest in technology.