



**K-Band Low Noise Block  
MODEL # CNB20206015**

**ELECTRICAL SPECIFICATIONS @ T =25°C, 50• SYSTEM**

<b>Parameter</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
Input Frequency	20.2		20.7	GHz
IF Frequency	950		1450	MHZ
LO Frequency	19.25			GHZ
Noise Figure			1.5	dB
Conversion Gain			60	dB
Image Rejection	40			dBc
Input VSWR	2.0:1			
Output VSWR	2.0:1			
Compression Point P1dB		+5		dBm
LO Stability (in PPL)		+/-1.5		ppm
Phase noise @ Offset				dBc/Hz
1 kHz		-70		
10 kHz		-80		
100 kHz		-90		
DC Voltage		12	30	Volt
DC Current		300		mA
IF Input Interface	WR 42			
Output Interface	75 ohms N-Type (F) Con			

**EXTERNAL REFERENCE**

<b>Parameter</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
Frequency		10		MHz
Power	-5		+5	dBm
Ext Ref Phase Noise Requirement @ 10kHz		-145		dBc/Hz

**ENVIRONMENTAL CHARACTERISTICS**

<b>Parameter</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
Operating Temperature	-40		+60	°C
RH w/o condensation			90	%

# **CERNEX, Inc.**

## **MECHANICAL SPECIFICATIONS**

<b>Parameter</b>	<b>Value</b>	<b>Units</b>	<b>Limits</b>
Dimensions or Package	93.00mm (L) x 75.00mm (W) x 31.00mm (H)	mm	
Color	White Powder Coated		
Weight	300g		

