



- 5 bands are switchable
- Frequency Range 17.2- 22.2GHz
- Built-in Isolator
- depends on ext. ref.



Low Noise Block Ka-Band 4 LO PLL with W/G Isolator (LNB)

Model: GLKAB4LOIX

	Section	Item	Specification
BQ910(X)I	Band 1	Input (GHz)	17.20 - 18.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	16.25 @13V
	Band 2	Input (GHz)	18.20 - 19.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	17.25 @13V & 22KHz
	Band 3	Input (GHz)	19.20 - 20.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	18.25 @18V
	Band 4	Input (GHz)	20.20 - 21.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	19.25 @18V & 22KHz
BQ920(X)I	Band 1	Input (GHz)	18.20 - 19.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	17.25 @13V
	Band 2	Input (GHz)	19.20 - 20.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	18.25 @18V
Band 3	Input (GHz)	20.20 - 21.20	
	Output (MHz)	950 - 1950	
	L.O (GHz), Switching	19.25 @18V & 22KHz	
Band 4	Input (GHz)	21.20 - 22.20	
	Output (MHz)	950 - 1950	
	L.O (GHz), Switching	20.25 @22V	

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Noise figure	2.0 dB max. (with isolator)
Conversion gain at -40 to +60°C	60 dB typ. (55dB min, 65dB max)
Gain flatness	4 dBp-p max. (each band)
Gain flatness at -40 to +60°C	5 dBp-p max. (each band)
Gain ripple at per 27MHz, -40 to +60°C	1 dBp-p max
L.O stability at -40 to +60°C	depends on ext. ref.
Image rejection	40 dBc min. @Band 1
	10 dBc min. @Band 2
	0 dBc min. @Band 3, 4, 5
	-70 dBc/Hz (@ 1 KHz)
	-80 dBc/Hz (@ 10 KHz)
Phase noise	-95 dBc/Hz (@ 100 KHz)
Output P1dB	+10 dBm min.
Ext. ref. input freq. & power	10 MHz, -5 to +5 dBm
Ext. ref. input port	IF output connector
Input VSWR	1.5 : 1 max.
Output VSWR	2.2 : 1 max.
Input waveguide flange	WR-42
Output connector	F, N-type female (option)
Power supply	+12 to +24V DC
Required current	450 mA max.
Operating temperature	-40 to +60°C
Waterproof	IP 67
Dimension (exclude connector)	66.8 x 38.4 x 139.6 mm
Weight	560 g

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Mechanical Diagram (Unit: inch (mm))

