

Heritage Upconverter Line Up

C/Ka-band Upconverter



Specification Table

Parameter	Unit	Typical performance	
		Type1	Type2
Input Frequency Range	GHz	3.583 to 3.728	3.583 to 3.728
Output Frequency Range	GHz	19.69 to 20.21	18.628 to 19.96
LO Input Frequency	GHz	8.0535	7.5225
		8.1160	8.0535
		8.1785	8.1160
		8.2410	
Gain	dB	-7.5 to -9.5	
Gain Flatness	dBp-p	0.5 /125MHz	
Noise Figure	dB	14 max.	
Power Consumption	W	2.6 max.	
Mass	kg	0.18	
Dimension	mm	87.6 X 35.5 X 60.6	

Main Characteristics

- o C/Ka-band UPCN consists of an RF Section and a STB circuit.
- o RF Section converts the 4GHz input signals to the 20GHz output signal using external Local signal.
- o Key parameter of C/Ka-band UPCN is as follows;
 - Noise Figure: 15dB max. @ +74degC, EOL
 - Gain: -835dB nom.
 - C/3IM: 47dB min. (Pin = -24dBm each)
 - DC Power: 2.6W max.
 - Mass: 180g max.
- o Self gain compensation by using the Variable Gain Amp over temperature