

Ka-Band Beacon Transmitter



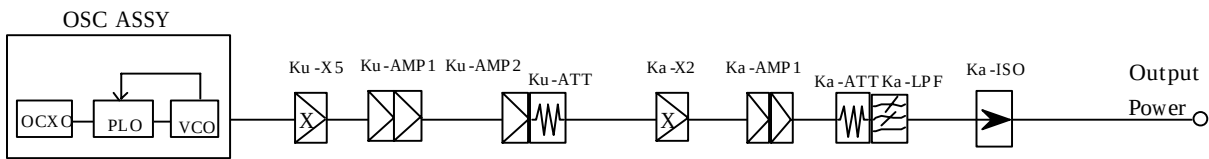
Features

- Output Power of 0 dBm min.
- High Frequency Stability Using PLL Technology (less than 0.5PPM over AT)
- Low Noise Phase Noise Using OCXO
- Low Power Consumption of 6W max

Heritage

- Superbird A
- Superbird B
- N-Star B,
- Superbird-4
- Optus-C1

Block Diagram



Performance Summary

Items	Description	Remarks
Operating Frequency Range	19 - 21.5 GHz	Pointing Frequency Signal
Output Power	> 0dBm	
Frequency Stability over AT	< 0.5 PPM	
Frequency Stability over Life	< 2PPM	
Spurious	< -60dBc	
Harmonics	< -60dBc	
Phase Noise	< -75dBc @100Hz offset < -80dBc @1KHz offset < -85dBc @10KHz offset	
Power Consumption	< 6.0W	
Dimension (in mm)	170 x 164 x 59	
Weight	< 900g	