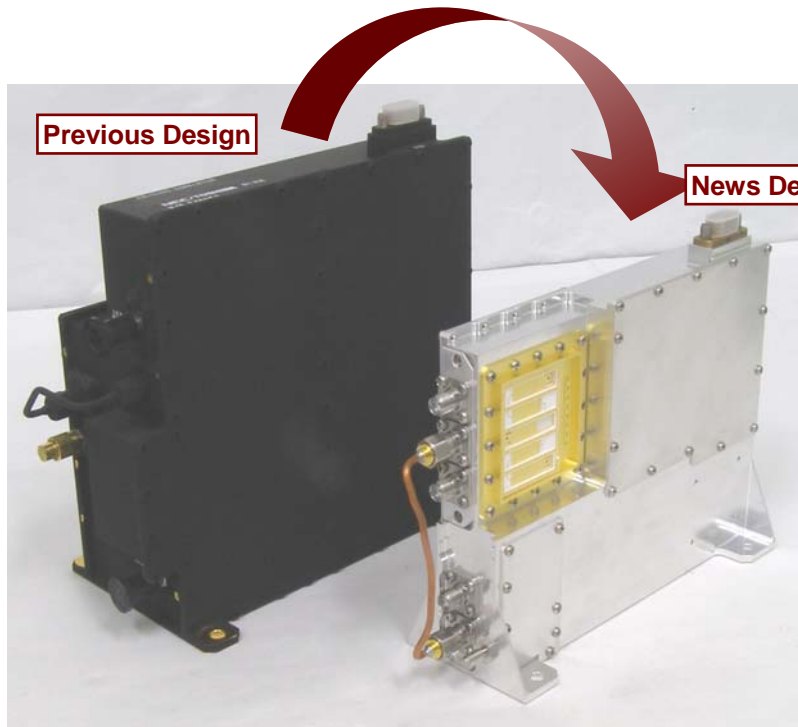


New Generation Ku-band Downconverter (Preliminary)

Mass Reduction and Compact Size Achieved
by Application of Multi Chip Module Technology.



Features

- o Low mass of 500g (max)
- o High performance and reliability backed up by extensive heritage
- o Heritage of over 1,600 converters, which includes Ku-Band units

Specification Table

Parameter	UNIT	Typical Performance
RF FREQ	GHz	14.0 to 14.5
LO FREQ	GHz	2.3
IF FREQ	GHz	11.7 to 12.2
BW	MHz	500
Gain	dB	25
NF	dB	18
ICP (OUT)	dBm	+26
Gain Flatness Full BW	dBp-p	0.7
5 x LO	dBm	-20
Random Phase Noise		
Offset frequency		
10Hz	dBc/Hz	-50
100Hz	dBc/Hz	-70
1KHz	dBc/Hz	-100
10KHz	dBc/Hz	-110
100KHz	dBc/Hz	-110
1MHz	dBc/Hz	-120
10MHz	dBc/Hz	-120
DC Power Consumption	W	7
Temp	°C	-20 to +76
Mass	Kg	0.5
OSC Type	-	TCXO

Block Diagram

