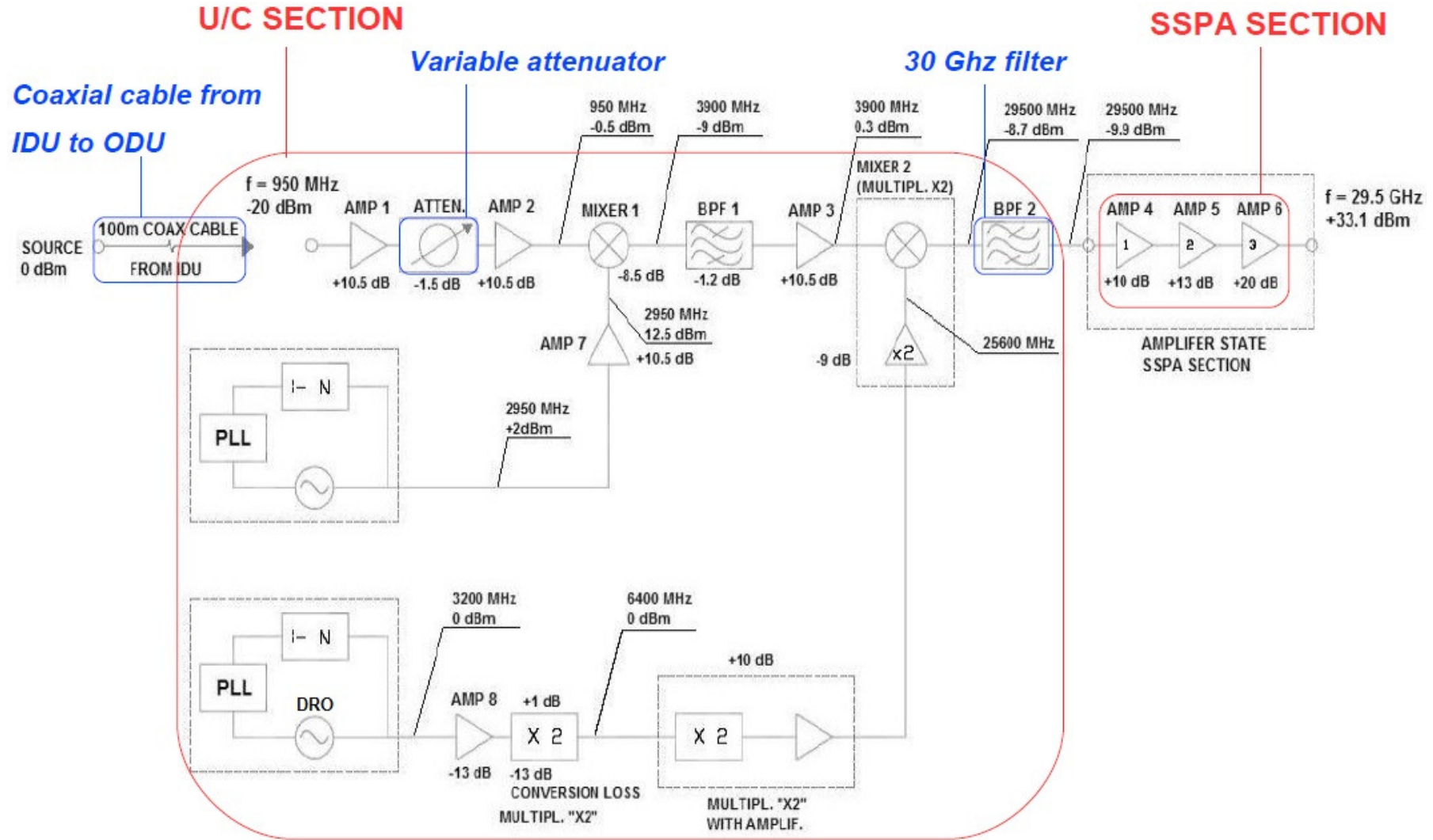
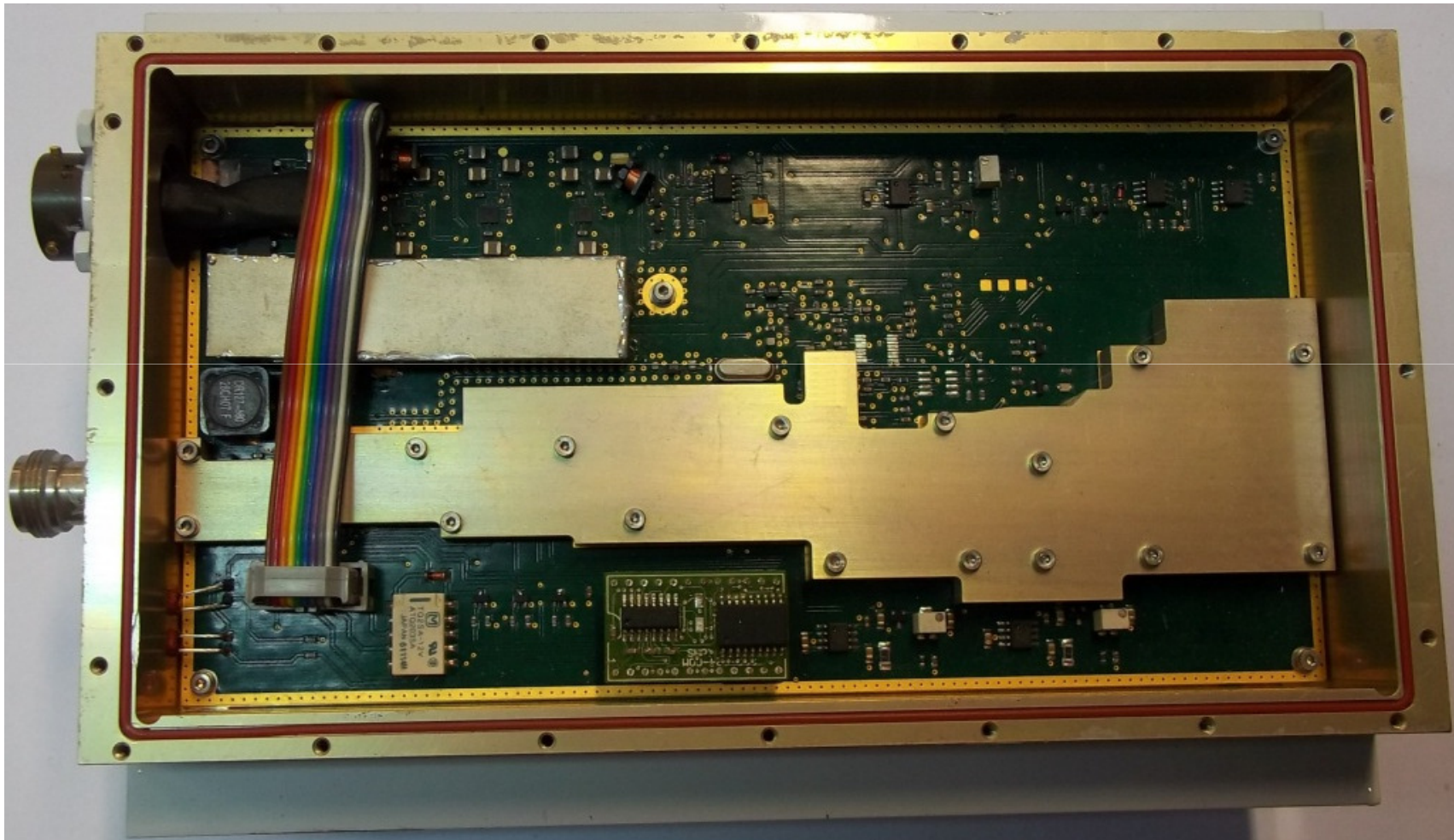


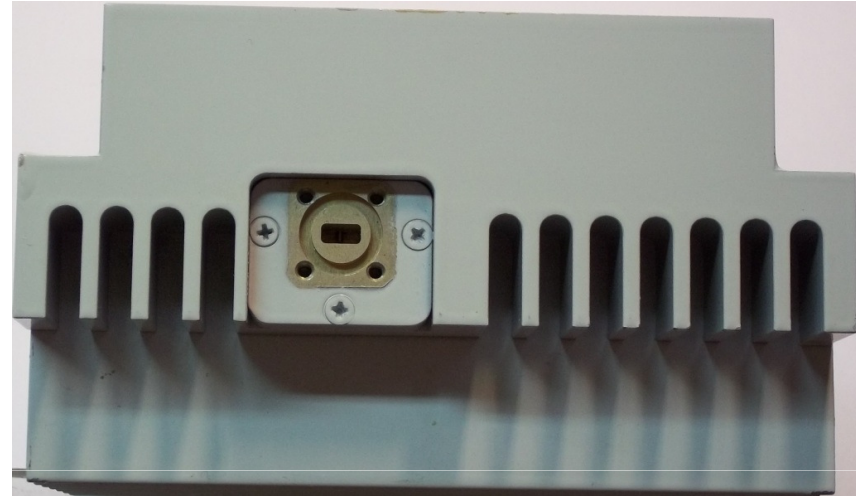
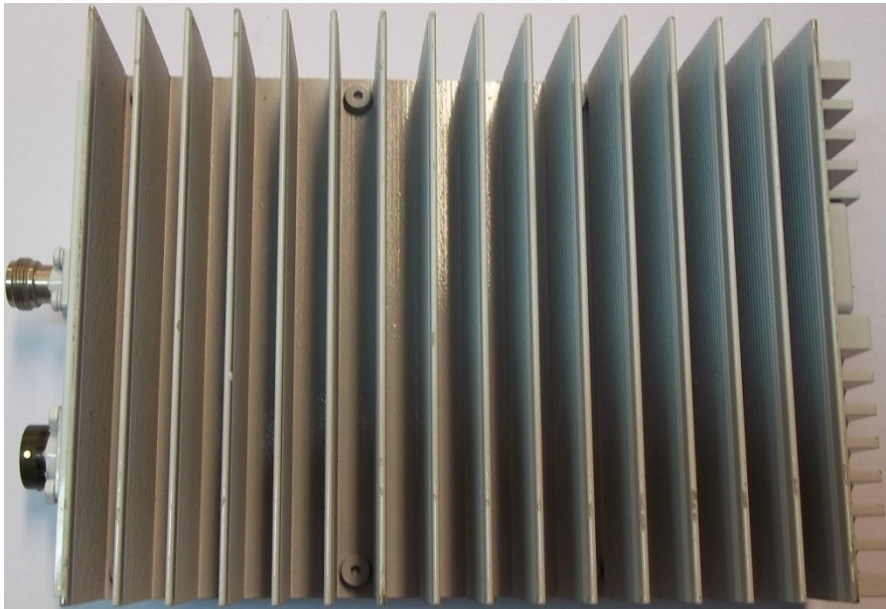
## DESIGN EXAMPLE – KA BAND BUC



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MEASUREMENT TYPE	EXPECTED VALUE	MEASURED VALUE
GAIN	≥ 50 dB	≥ 53 dB
GAIN FLATNESS FULL BAND	± 1.5 dB max	± 1 dB max
GAIN FLATNESS 40 MHZ	± 0.25 dB max	± 0.2 dB max
OUTPUT POWER	≥ 33 dBm	≥ 35 dBm
PHASE NOISE @ 100 HZ (F = 29.75 GHZ)	≤ -60 dBc/Hz	≤ -62 dBc/Hz
PHASE NOISE @ 1 KHZ (F = 29.75 GHZ)	≤ -70 dBc/Hz	≤ -75 dBc/Hz
PHASE NOISE @ 10 KHZ (F = 29.75 GHZ)	≤ -80 dBc/Hz	≤ -86 dBc/Hz
PHASE NOISE @ 100 KHZ (F = 29.75 GHZ)	≤ -95 dBc/Hz	≤ -105 dBc/Hz
PHASE NOISE @ 1 MHZ (F = 29.75 GHZ)	≤ -105 dBc/Hz	≤ -112 dBc/Hz
RETURN LOSS (INPUT)	-10 dB max	-11 dB max
RETURN LOSS (OUTPUT)	-10 dB max	-11 dB max
FREQUENCY STABILITY (WITHIN 24 HRS)	± 5 E-8	± 5 E-8
AMPLITUDE STABILITY (WITHIN 24 HRS)	± 0.1 dB	± 0.1 dB
GAIN STABILITY OVER TEMPERATURE (-40 TO +60 ° C)	± 0.1 dB	± 0.1 dB