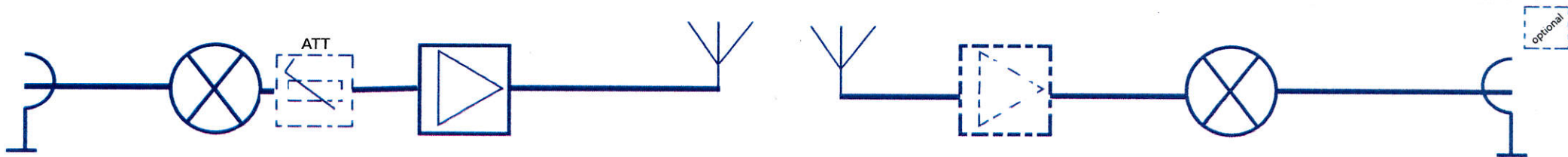


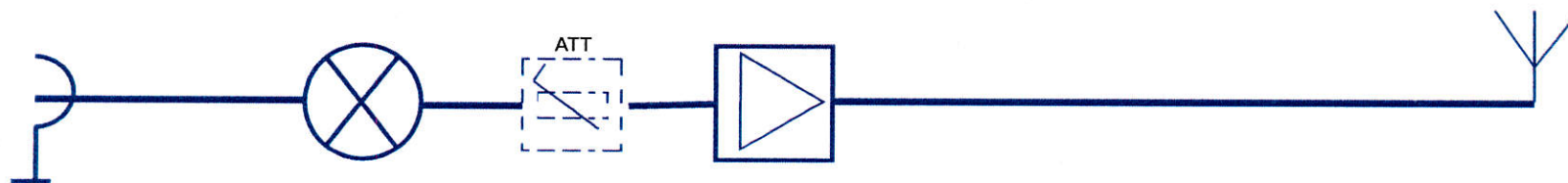
Video Link



Input Frequency	Up-Converter	Power Amplifier	Transmission Frequency	LNA	Down-Converter	Output Frequency
540 ... 740 MHz	KU UP 2123	KU PA 200240-80 LIN	2100 ... 2300 MHz		KU LNC 2027 B PRO	267 ... 467 MHz
	KU UP 2123	KU PA 200250-18 A	2100 ... 2300 MHz	KU LNA 2227 A	KU LNC 2030 B	100 ... 300 MHz
597 ... 797 MHz	KU UP 2325	KU PA 230270-80 LIN	2300 ... 2500 MHz	(KU LNA 2227 A)	KU LNC 2227 B PRO	467 ... 667 MHz
	KU UP 2325	KU PA 200250-18 A	2300 ... 2500 MHz		KU LNC 2027 B PRO	467 ... 667 MHz
	KU PA 2325	KU PA 230270-18 A	2300 ... 2500 MHz	KU LNA 2227 A	KU LNC BB 2030 B	300 ... 500 MHz
662 ... 862 MHz	KU UP 2527	KU PA 230270-80 LIN	2500 ... 2700 MHz	(KU LNA 2227 A)	KU LNC 2227 B PRO	667 ... 867 MHz
	KU UP 2527	KU PA 230270-18 A	2500 ... 2700 MHz		KU LNC 2027 B PRO	667 ... 867 MHz
400 ... 600 MHz	KU UP 3436	KU PA 320380-2 A	3400 ... 3600 MHz	KU LNA 2227 A	KU LNC BB 2030 B	500 ... 700 MHz
	KU UP 3436	KU PA 310410-3 A	3400 ... 3600 MHz	KU LNA 3436 C	KU LNC 3136 A	500 ... 700 MHz
	KU UP 3436	KU PA 330360-40 LIN	3400 ... 3600 MHz	(KU LNA 3436 C)	KU LNC 3436 A	400 ... 600 MHz
400 ... 700 MHz	KU UP 5457	KU PA 510590-4 A	5400 ... 5700 MHz		KU LNC 5257 A	1400 ... 1700 MHz
		KU PA 510590-10 A	5400 ... 5700 MHz			
400 ... 700 MHz	KU UP 5659	KU PA 510590-4 A	5600 ... 5900 MHz		KU LNC 5659 C PRO	400 ... 700 MHz
		KU PA 510590-10 A	5600 ... 5900 MHz			
2260 ... 2310 MHz	KU UP 107 A	KU PA 10001050-4 A	10000 ... 10500 MHz			
		KU PA 10001045-8 A	10000 ... 10450 MHz			
		KU PA 10201050-30 A	10200 ... 10500 MHz			
		KU PA 10301050-55 B / WG	10300 ... 10500 MHz			
960 ... 1660 MHz	KU UP 107 B	KU PA 10001050-4 A	10000 ... 10500 MHz			
		KU PA 10001045-8 A	10000 ... 10450 MHz			
		KU PA 10201050-30 A	10200 ... 10500 MHz			
		KU PA 10301050-55 B / WG	10300 ... 10500 MHz			
950 ... 1700 MHz	KU UP 114 B	KU PA 12701540-2 A	13750 ... 14500 MHz			



Broadcast

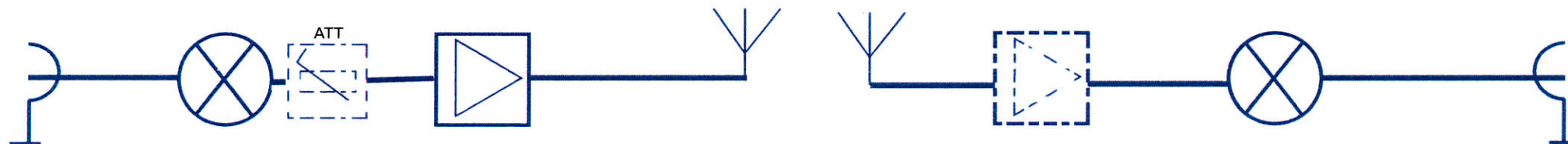


Input frequency	Up-Converter	Power Amplifier	RF-Frequency	Output power
640 ... 740 MHz	KU UP 2123 KU UP 2123	KU PA 200240-80 LIN KU PA 200250-18 A KU PA 200240-80 LIN	2.1 ... 2.3 GHz	P1dB: min. 18 W P1dB: min. 18 W COFDM: typ. 10 W
697 ... 797 MHz	KU UP 2325 KU UP 2325 KU UP 2325	KU PA 230270-80 LIN KU PA 200250-18 A KU PA 230270-18 A	2.3 ... 2.5 GHz	COFDM: typ. 10 W P1dB: min. 18 W P1dB: min. 18 W
662 ... 862 MHz	KU UP 2527 KU UP 2527	KU PA 230270-80 LIN KU PA 230270-18 A	2.5 ... 2.7 GHz	COFDM: typ. 10 W P1dB: min. 18 W
400 ... 600 MHz	KU UP 3436 KU UP 3436 KU UP 3436	KU PA 320380-2 A KU PA 310410-3 A KU PA 330360-40 LIN	3.4 ... 3.6 GHz	P1dB: typ. 2 W P1dB: min. 3 W
400 ... 700 MHz	KU UP 5457	KU PA 510590-4 A KU PA 510590-10 A	3.4 ... 3.6 GHz 5.4 ... 5.7 GHz	COFDM: typ. 5 W P1dB: typ. 4 W P1dB: min. 10 W
400 ... 700 MHz	KU UP 5659	KU PA 510590-4 A KU PA 510590-10 A	5.6 ... 5.9 GHz	P1dB: typ. 4 W P1dB: min. 10 W
2260 ... 2310 MHz	KU UP 107 A	KU PA 10001050-4 A KU PA 10001045-8 A KU PA 10201050-30 A KU PA 10301050-55 B / WG	10 ... 10.5 GHz 10 ... 10.5 GHz 10.2 ... 10.5 GHz 10.3 ... 10.5 GHz	P1dB: min. 4 W P1dB: min. 8 W P1dB: typ. 30 W P1dB: typ. 55 W
960 ... 1660 MHz	KU UP 107 B	KU PA 10001050-4 A KU PA 10001045-8 A KU PA 10201050-30 A KU PA 10301050-55 B / WG	10 ... 10.5 GHz 10 ... 10.5 GHz 10.2 ... 10.5 GHz 10.3 ... 10.5 GHz	P1dB: min. 4 W P1dB: min. 8 W P1dB: typ. 30 W P1dB: typ. 55 W
950 ... 1700 MHz	KU UP 114 B	KU PA 12701540-2 A	13.75 ... 14.5 GHz	P1dB: min. 2 W

optional



Security / Defence

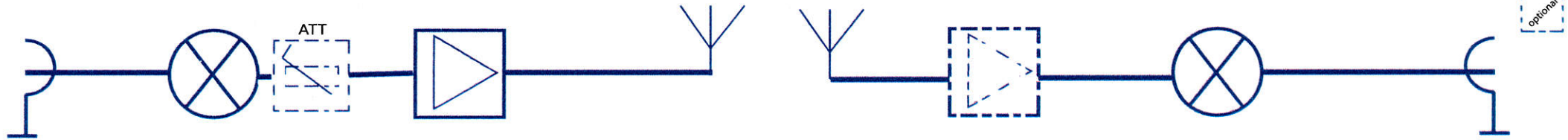


Input Frequency	Up-Converter	Power Amplifier	Transmission Frequency	LNA	Down-Converter	Output Frequency
400 ... 500 MHz		KU PA 040050-10 HY	400 ... 500 MHz	KU LNA 3050 A		400 ... 500 MHz
540 ... 740 MHz	KU UP 2123 KU UP 2123	KU PA 200240-80 LIN KU PA 200250-18 A	2100 ... 2300 MHz 2100 ... 2300 MHz	KU LNA 2227 A	KU LNC 2027 B PRO KU LNC 2030 B	267 ... 467 MHz 100 ... 300 MHz
597 ... 797 MHz	KU UP 2325 KU UP 2325 KU PA 2325	KU PA 230270-80 LIN KU PA 200250-18 A KU PA 230270-18 A	2300 ... 2500 MHz 2300 ... 2500 MHz 2300 ... 2500 MHz	(KU LNA 2227 A) KU LNA 2227 A	KU LNC 2227 B PRO KU LNC 2027 B PRO KU LNC BB 2030 B	467 ... 667 MHz 467 ... 667 MHz 300 ... 500 MHz
662 ... 862 MHz	KU UP 2527 KU UP 2527	KU PA 230270-80 LIN KU PA 230270-18 A	2500 ... 2700 MHz 2500 ... 2700 MHz	(KU LNA 2227 A) KU LNA 2227 A	KU LNC 2227 B PRO KU LNC 2027 B PRO KU LNC BB 2030 B	667 ... 867 MHz 667 ... 867 MHz 500 ... 700 MHz
400 ... 600 MHz	KU UP 3436 KU UP 3436 KU UP 3436	KU PA 320380-2 A KU PA 310410-3 A KU PA 330360-40 LIN	3400 ... 3600 MHz 3400 ... 3600 MHz 3400 ... 3600 MHz	KU LNA 3436 C (KU LNA 3436 C)	KU LNC 3136 A KU LNC 3436 A	500 ... 700 MHz 400 ... 600 MHz
400 ... 700 MHz	KU UP 5457	KU PA 510590-4 A KU PA 510590-10 A	5400 ... 5700 MHz 5400 ... 5700 MHz		KU LNC 5257 A	1400 ... 1700 MHz
400 ... 700 MHz	KU UP 5659	KU PA 510590-4 A KU PA 510590-10 A	5600 ... 5900 MHz 5600 ... 5900 MHz		KU LNC 5659 C PRO	400 ... 700 MHz
30 ... 550 MHz 698 ... 2700 MHz		KU PA BB 003055-100 A KU PA BB 007270-80 A	30 ... 550 MHz 698 ... 2700 MHz	KU LNA 1090 A KU LNA 1090 A TM		1070 ... 1110 MHz 1070 ... 1110 MHz

optional



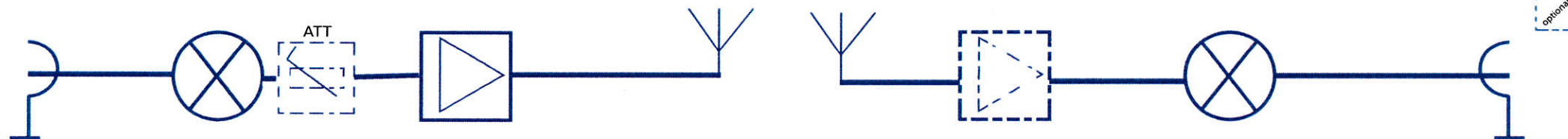
Down Link



Input Frequency	Up-Converter	Power Amplifier	Transmission Frequency	LNA	Down-Converter	Output Frequency
540 ... 740 MHz	KU UP 2123 KU UP 2123	KU PA 200240-80 LIN KU PA 200250-18 A	2100 ... 2300 MHz 2100 ... 2300 MHz	KU LNA 2227 A	KU LNC 2027 B PRO KU LNC 2030 B	267 ... 467 MHz 100 ... 300 MHz
597 ... 797 MHz	KU UP 2325 KU UP 2325 KU PA 2325	KU PA 230270-80 LIN KU PA 200250-18 A KU PA 230270-18 A	2300 ... 2500 MHz 2300 ... 2500 MHz 2300 ... 2500 MHz	(KU LNA 2227 A) KU LNA 2227 A	KU LNC 2227 B PRO KU LNC 2027 B PRO KU LNC BB 2030 B	467 ... 667 MHz 467 ... 667 MHz 300 ... 500 MHz
662 ... 862 MHz	KU UP 2527 KU UP 2527	KU PA 230270-80 LIN KU PA 230270-18 A	2500 ... 2700 MHz 2500 ... 2700 MHz	(KU LNA 2227 A) KU LNA 2227 A	KU LNC 2227 B PRO KU LNC 2027 B PRO KU LNC BB 2030 B	667 ... 867 MHz 667 ... 867 MHz 500 ... 700 MHz
400 ... 600 MHz	KU UP 3436 KU UP 3436 KU UP 3436	KU PA 320380-2 A KU PA 310410-3 A KU PA 330360-40 LIN	3400 ... 3600 MHz 3400 ... 3600 MHz 3400 ... 3600 MHz	KU LNA 3436 C (KU LNA 3436 C)	KU LNC 3136 A KU LNC 3436 A	500 ... 700 MHz 400 ... 600 MHz
400 ... 700 MHz	KU UP 5457	KU PA 510590-4 A KU PA 510590-10 A	5400 ... 5700 MHz 5400 ... 5700 MHz		KU LNC 5257 A	1400 ... 1700 MHz
400 ... 700 MHz	KU UP 5659	KU PA 510590-4 A KU PA 510590-10 A	5600 ... 5900 MHz 5600 ... 5900 MHz		KU LNC 5659 C PRO	400 ... 700 MHz



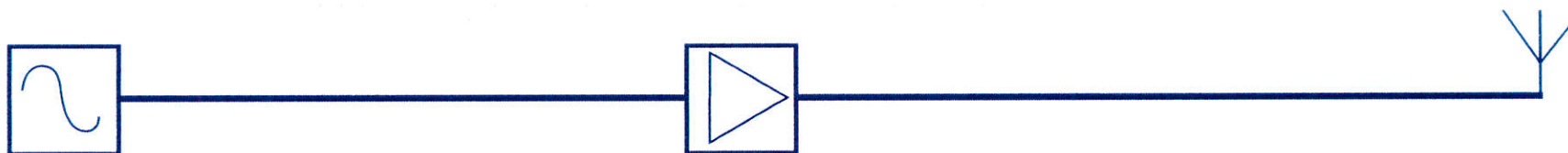
Sport Events



Input Frequency	Up-Converter	Power Amplifier	Transmission Frequency	LNA	Down-Converter	Output Frequency
540 ... 740 MHz	KU UP 2123	KU PA 200240-80 LIN	2100 ... 2300 MHz		KU LNC 2027 B PRO	267 ... 467 MHz
	KU UP 2123	KU PA 200250-18 A	2100 ... 2300 MHz	KU LNA 2227 A	KU LNC 2030 B	100 ... 300 MHz
597 ... 797 MHz	KU UP 2325	KU PA 230270-80 LIN	2300 ... 2500 MHz	(KU LNA 2227 A)	KU LNC 2227 B PRO	467 ... 667 MHz
	KU UP 2325	KU PA 200250-18 A	2300 ... 2500 MHz		KU LNC 2027 B PRO	467 ... 667 MHz
	KU PA 2325	KU PA 230270-18 A	2300 ... 2500 MHz	KU LNA 2227 A	KU LNC BB 2030 B	300 ... 500 MHz
662 ... 862 MHz	KU UP 2527	KU PA 230270-80 LIN	2500 ... 2700 MHz	(KU LNA 2227 A)	KU LNC 2227 B PRO	667 ... 867 MHz
	KU UP 2527	KU PA 230270-18 A	2500 ... 2700 MHz		KU LNC 2027 B PRO	667 ... 867 MHz
400 ... 600 MHz	KU UP 3436	KU PA 320380-2 A	3400 ... 3600 MHz	KU LNA 2227 A	KU LNC BB 2030 B	500 ... 700 MHz
	KU UP 3436	KU PA 310410-3 A	3400 ... 3600 MHz	KU LNA 3436 C	KU LNC 3136 A	500 ... 700 MHz
	KU UP 3436	KU PA 330360-40 LIN	3400 ... 3600 MHz	(KU LNA 3436 C)	KU LNC 3436 A	400 ... 600 MHz
400 ... 700 MHz	KU UP 5457	KU PA 510590-4 A	5400 ... 5700 MHz		KU LNC 5257 A	1400 ... 1700 MHz
		KU PA 510590-10 A	5400 ... 5700 MHz			
400 ... 700 MHz	KU UP 5659	KU PA 510590-4 A	5600 ... 5900 MHz		KU LNC 5659 C PRO	400 ... 700 MHz
		KU PA 510590-10 A	5600 ... 5900 MHz			
2260 ... 2310 MHz	KU UP 107 A	KU PA 10001050-4 A	10000 ... 10500 MHz			
		KU PA 10001045-8 A	10000 ... 10450 MHz			
		KU PA 10201050-30 A	10200 ... 10500 MHz			
		KU PA 10301050-55 B / WG	10300 ... 10500 MHz			
960 ... 1660 MHz	KU UP 107 B	KU PA 10001050-4 A	10000 ... 10500 MHz			
		KU PA 10001045-8 A	10000 ... 10450 MHz			
		KU PA 10201050-30 A	10200 ... 10500 MHz			
		KU PA 10301050-55 B / WG	10300 ... 10500 MHz			



Microwave Heating



Line-up	Signal Generator	Power Amplifier	RF-Frequency	Output Power
25 W	KU SG 2.45-25 A	KU PA 240250-100 B	2.45 GHz	1 ... 25 W
100 W	KU SG 2325-100		2.3 ... 2.5 GHz	1 ... 100 W
110 W	KU SG 2.45-25 A		2.45 GHz	typ. 100 W
200 W	KU SG 2.45-200 A		2.4 ... 2.5 GHz	0 ... 200 W
200 W	KU SG 2325-200		2.3 ... 2.5 GHz	1 ... 200 W
300 W	KU SG 2.45-25 A optional ATT necessary	KU PA 240250-250 CU	2.45 GHz	300 W
1000 W	KU SG 090093-1000 RACK		902 ... 928 MHz	50 ... 1000 W



Radio Astronomy



Frequency range

1685 ... 1705 MHz

8000 ... 8450 MHz

LNA

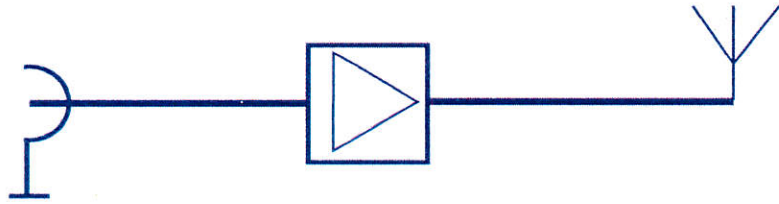
MKU LNA 172 A

KU LNA 8000 A

KU LNA 8000 A-SMA



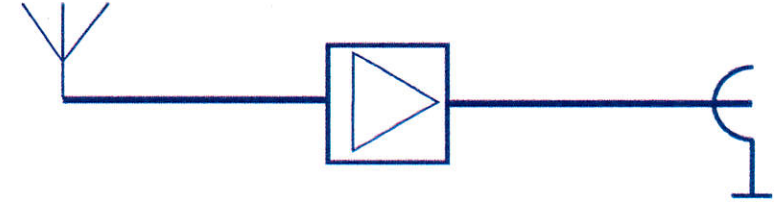
Research



Frequency range

Power Amplifier

30 ... 550 MHz	KU PA BB 003055-100 A
50 ... 900 MHz	KU PA BB 005090-6 A
50 ... 2500 MHz	KU PA BB 005250-2 A
50 ... 3000 MHz	KU PA BB 005300-3 A
698 ... 2700 MHz	KU PA BB 070270-80 A



Empfangsfrequenzbereich

LNA

45 ... 100 MHz	KU LNA BB 005010 A
100 ... 180 MHz	KU LNA BB 1018 A
225 ... 400 MHz	KU LNA BB 2240 A
350 ... 500 MHz	KU LNA BB 3050 A
5 ... 1500 MHz	KU LNA BB 0515 A-SMA
	KU LNA BB 0515 B-N
	KU LNA BB 0515 C-N
1000 ... 2000 MHz	KU LNA BB 1020 A
1500 ... 2200 MHz	KU LNA BB 1522 A
2200 ... 2700 MHz	KU LNA BB 2227 A
10 ... 3000 MHz	KU LNA BB 3000 A
	KU LNA BB 3000 C-N
2500 ... 3300 MHz	KU LNA BB 2533 A
500 ... 7000 MHz	KU LNA BB 050700 A
1 ... 7000 MHz	KU LNA BB 0180 B-N
100 ... 12000 MHz	KU LNA BB 0112 A
2000 ... 12000 MHz	KU LNA BB 2001200 A
100 ... 20000 MHz	KU LNA BB 202 A

