

BUILDING BLOCKS FOR LINEAR RECEIVERS

6-86GHz LNA and Down Converters



Short distance



Satcom



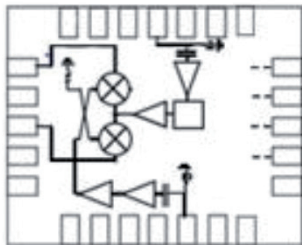
Point to Point



Point to Multipoint

Field proven performance

- Low noise
- Low consumption
- Flange mount
- 20 years leadership



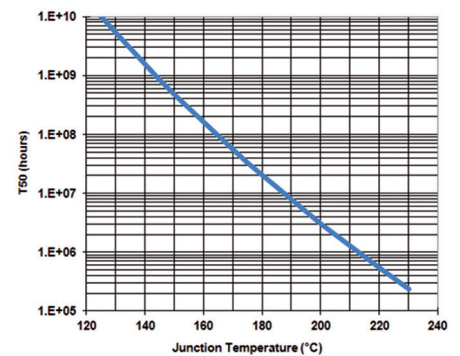
Easy to use packaged solutions

- Surface mount devices
- Self biasing
- Low VSWR
- ESD protected



Reliability and lifetime benefits

- Space evaluated technologies

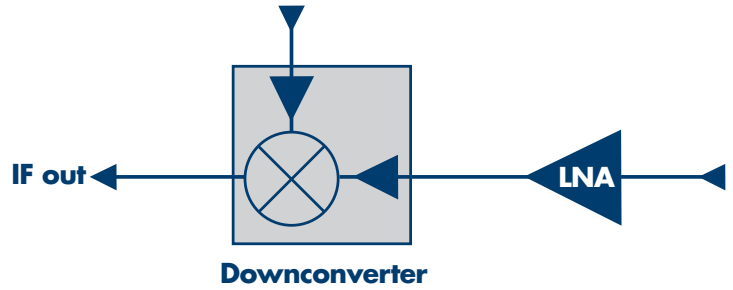


Build your own solution with UMS

www.ums-rf.com



Building blocks for linear receivers



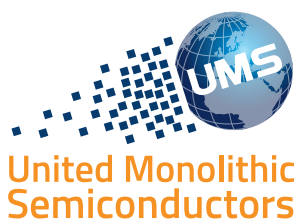
LOW NOISE AMPLIFIERS

Part Number	RF Bandwidth (GHz)	Gain (dB)	Gain flatness (+/-dB)	Noise figure (dB)	p-1 dB out (dBm)	Bias (mA)	Bias (V)	Case
CHA3024-QGG	2-22	15	-	3	18	100	5	QFN
CHA3666-QAG	5.8-17	21	0.5	1.8	16	80	4	QFN
CHA3656-QAG	6-17	20	0.5	1.7	14	68	3	QFN
CHA2110-QDG	7-12	19	-	1.2	10	45	4	QFN
CHA2066-QAG	10-16	16	1	2.5	10	50	4	QFN
CHA3688aQDG	12.5-30	26	2	2	14	85	4	QFN
CHA2069-QDG	18-31	20	2	3	10.5	65	4.5	QFN
CHA2362-98F	26-40	22	-	2	9	65	4	Die
CHA1294-QAG	31-43.5	14	-	2.5	11.5	60	2	QFN
CHA2494-QEG	34-44	22	1.5	3	12	80	4	QFN
CHA2157-99F	55-60	10	1	3.5	15	60	3.3	Die
CHA2159-99F	55-65	20	1	4	14	115	3.5	Die
CHA2080-98F	71-86	22	0.8	3.5	10	75	3.5	Die

DOWN-CONVERTERS

Part Number	RF Bandwidth (GHz)	LO Bandwidth (GHz)	Conv Gain (dB)	Input IP3 (dBm)	Noise figure (dB)	Bias (mA)	Bias (V)	Case
CHR3762-QDG	5.5-9	4-12	14	3	1.7	100	3	QFN
CHR3763-QDG	12-16	8.5-19.5	12	0	2.3	80	3	QFN
CHR3364-QEG	17-24	6.5-14	11	2	2.7	320	4	QFN
CHR3693-QDG	21-26.5	9-14	14	-2	3	160	4	QFN
CHR3394-QEG	37-40	17.5-21	13	1	3.5	250	4	QFN
CHR3894-QEG	37-40	17.5-21	13	-	4	250	4	QFN
CHM1298-99F	55-65	27.5-32.5	-12	+8	-	90	3.5	Die
CHR1080a98F	71-86	34.5-44	8	-2	5	175	3.5	Die

UMS LNA and down-converters are available in die or QFN leadless package with guaranteed MSL1



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