

High performance
MMICs in L, S, C, X,
Ku, Ka and Q Bands



UMS RF & mm-wave low noise & power amplifiers and products for Satellite Communication with excellent quality and reputation.

- Our GaN for better SWaP and GaAs technologies meet your needs for LNAs, PAs and frequency conversion for SATCOM terminals. Thanks to our space evaluated technologies and space grade product qualification flow, our products are well suited for on-board satellite equipment.
- We support our customers in their move to higher frequency and wider bandwidths with regular new product introductions in Ka and Q/V bands. Thanks to the wide packaging solutions developed in UMS, we are covering both traditional GEO and new LEO uplinks and downlinks both on satellite and within stationary ground or mobile equipments.



Build your own solution with UMS

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PRODUCT SELECTION

AMPLIFIER - HPA

Part Number	Frequency (GHz)	Gain (dB)	IP3 (dBm)	Psat (dBm)	PAE %	Bias mA @ V	Case
CHA8012-99F	5.2-6	22	-	41.5	43 @ 3dBc	2100 @ 8	Die
CHA8312-99F	8-12	26	-	43	50 @ 23dBm	320 @ 20	Die
CHA8612-QDB	8.5-10.5	24	-	43	30 @ Psat	680 @ 30	QFN
CHA8710-QDB	8.5-10.5	29.5	-	-	41.5	750 @ 35	QFN
CHA8352-99F	10.7-12.75	25	-	43	45 @ 43dBm	500 @ 20	Die
CHA7063-QCB	12.7-20	20	-	37	-	216 @ 20	QFN
CHA6550-98F/QXG	17- 23.6	22	39	34	20 @ Psat	1300 @ 6	Die / QFN
CHA8252-99F	17.3-20.3	31	-	41	35 @ 16dBm	300 @ 18	Die
CHA8254-99F	17.3-20.3	29	-	40	31 @ Pin 20dBm	225 @15	Die
CHA6282-QCB	17.3-21.5	30	-	36	28 @ Psat	260 @ 18	QFN
CHA6354-QQA	27.5-30	25	-	35	15	90 @ 25	QFN
CHA6357-QKB	27.5-30	27	-	35	15	90 @ 25	QFN
CHA6653-98F/QXG	27-33.5	20	38	33	23 @ Psat	900 @ 6	Die / QFN
CHA8262-99F	27.5-31	24	-	41	25	280 @ 20	Die
CHA8362-99F	27.5-31	25	-	44	30	390 @ 25	Die
CHA7453-99F	37.5-41.5	28	-	39.5	22	290 @ 20	Die
CHA7455-99F	39.5-42.5	28	-	39.5	22	290 @ 20	Die

AMPLIFIER - MPA

Part Number	Frequency (GHz)	Gain (dB)	IP3 (dBm)	Psat (dBm)	Bias mA @ V	Case
CHA5005-QDG	0.8-1.5	18	-	27.5	120 @ 7.5	QFN
CHA4107-99F / QDG	4.5-6.5	24.5	-	26	115 @ 8	Die / QFN
CHA4253-FAB / QQG	17-21	26	33	24.5	230 @ 4	Hermetic SMD / QFN
CHA4253a98F	17-24	26	32	25	230 @ 4	Die
CHA3395-98F/QDG	21-30	24	32	22	180 @ 4	Die / QFN
CHA3396-QDG	27-33.5	22	30	21	155 @ 4	QFN

AMPLIFIER - LNA

Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (+/- dB)	NF (dB)	Bias mA @ V	Case
CHA3801-FAB	1-2	28	0.5	1.5	70 @ 5	Hermetic SMD
CHA3666-FAB/99F/QAG	6-17	21	0.5	1.8	80 @ 4	Hermetic SMD / Die / QFN
CHA3688aQDG	12.5-30	26	2	2	85 @ 4	QFN
CHA2069-FAB	16-32	22	1	2.5	55 @ 4.5	Hermetic SMD
CHA2362-98F	26-40	22	-	2	65 @ 4	Die
CHA2595-98F / QDG	27.5-43.5	19.5	-	2	61 @ 3.3	Die / QFN
CHA2352-98F	46-52	21	1	3.5	55 @ 3.3	Die
CHA2368-98F	50-71	21	-	3.5	75 @ 3.3	Die

GAN HEMT POWER TRANSISTOR

Part Number	Operating Frequency (GHz)	Glin (dB) @Freq (GHz)	Saturated Power (W)	PAE (%) @ Freq (GHz)	Bias (A) @ (V)	Case
CHK8101-SYC	Up to 6	12 @ 6	20	64 @ 2	0.1 @ 50	Ceramic Metal Flange

ATTENUATOR - ANALOG

Part Number	Frequency (GHz)	Insertion Loss (dB)	Amplitude Control (dB)	P-1dB IN (dBm)	Case
CHT3091-FAB	DC-14	2.5	20.5	15	Hermetic SMD
CHT4690-FAB	5-30	3.5	37	25	Hermetic SMD
CHT4660-QAG	DC-16	2	30	24	QFN

DOWN - CONVERTER (IF BANDWIDTH DC-3.5GHZ)

Part Number	RF Band. (GHz)	LO Band. (GHz)	Conv. Gain (dB)	NF (dB)	LO Input Power (dBm)	Bias mA @ V	Case
CHR3762-QDG	5.5-9	4-12	14	1.7	5	100 @ 3	QFN
CHR3352-QEG	12-16	8.5-19.5	13	2.7	0	250 @ 4	QFN
CHR3693-FAB/99F/QDG	21-26.5	9-14	15	3.2	2	160 @ 4	Hermetic SMD/Die/QFN

POWER DIVIDER

Part Number	RF Bandwidth (GHz)	Ins. Loss (dB)	Isolation Range (dB)	Return Loss (dB)	Amplitude Unbalance (dB)	Amplitude phase (°)	Case
CHW4212-QKA	8-22	0.5	20	>20 (22)	0.2	2°	DFN
CHW4213-QAG	15-25	0.5	20	>18	0.5	<+/-2°	QFN
CHW4312-QKA	22-34	0.75	20	>15	0	3°	DFN
CHW4313-QAG	24-35	0.6	20	>16	+/-0.5	-5°	QFN

Refer to our full datasheets on : www.ums-rf.com



Contact us:
UMS SAS – EMEA
Ph: +33 1 69 86 32 00
mktsales@ums-rf.com
www.ums-rf.com

UMS USA, Inc. - America
Ph: +1 781 791 5078
philippe.labasse@ums-rf.com
Worldwide distributor: Richardson RFPD - www.richardsonrfpd.com

UMS - Asia
Ph: +65 9298 8316
thomas.vacher@ums-rf.com

