

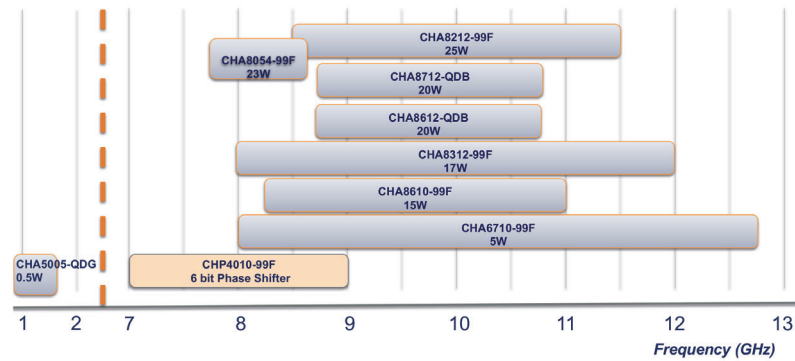
A selection of our latest
released products
for Defense



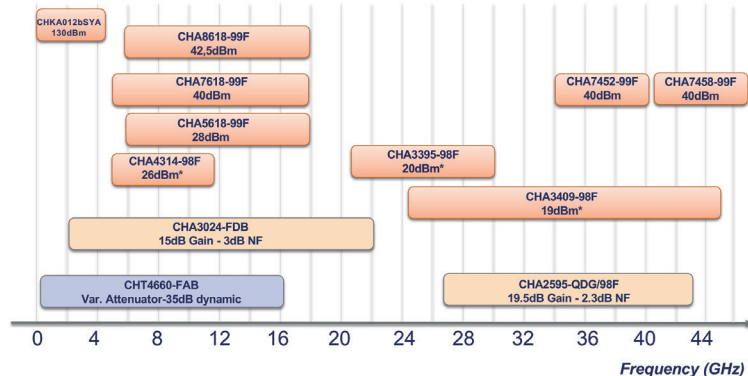
UMS has successfully developed its defense offer
with new GaN and GaAs products for Radar and
electronic warfare applications:



Radar & L-X-Band applications



Wideband



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NEW DEFENSE PRODUCTS



AMPLIFIER – LNA

Part Number	RF Bandwidth (GHz)	Gain (dB)	Noise Figure (dB)	P-1dB OUT (dBm)	Bias (mA)	Bias (V)	Case
CHA3024-FDB	2-22	15	3	18	100	5	Hermetic SMD
CHA2595-QDG	27.5-43.5	19.5	2.3	11	61	3.3	QFN

AMPLIFIER – MPA

Part Number	RF Bandwidth (GHz)	Gain (dB)	IP3 (dBm)	P-1dB OUT (dBm)	Sat. Output Power (dBm)	Bias (mA)	Bias (V)	Case
CHA5005-QDG	0.8-1.5	18	-	26	27.5	120	7.5	QFN
CHA5618-99F	6-18	22	-	-	28	150	20	Die
CHA3024-FDB	2-22	15	29	18	22	100	5	Hermetic SMD
CHA4314-98F	4.7-11.3	19	34	26	27	180	8	Die
CHA3395-98F	21-30	24	32	20	22.5	180	4	Die
CHA3409-98F	25-45	23	19	19	20	100	4	Die

AMPLIFIER – HPA

Part Number	RF Bandwidth (GHz)	Gain (dB)	P-1dB OUT (dBm)	Sat. Output Power (dBm)	PAE %	Bias (mA)	Bias (V)	Case
CHA7618-99F	5.5-18	30	-	40	20 @ 20dBm	530	18	Die
CHA8618-99F	6-18	33	-	42.5	26 @ Psat	1200	20	Die
CHA8054-99F	7.7-8.6	27	43.6	43.6	50 @ 7dB comp	900	28	Die
CHA8612-QDB	7.9-11	26	-	42.5	40 @ Psat	680	30	QFN
CHA8710-QDB	8-10.5	29.5	-	44	41 @ Psat	750	30	QFN
CHA8312-99F	8-12	26	42.5	43	50 @ 23dBm	320	20	Die
CHA6710-99F	8-12.75	23.5	37.4	37.4	36 @ Psat	200	25	Die
CHA6710-FAB	8-12.75	22.5	37	37	35 @ Psat	200	25	Hermetic SMD
CHA8610-99F	8.5-11	24	41.8	41.8	40 @ Psat	680	30	Die
CHA8212-99F	8.5-11.5	34	44.5	44	36 @ 7dB comp	840	28	Die
CHA7063-QCB	12.7-20	20	-	37	17 @ Psat	216	20	QFN
CHA7452-99F	35.5-40.5	29	39.5	40	24	290	20	Die
CHA7455-99F	39-43.5	29	-	39.5	25 @ Psat	240	20	Die

GaN POWER TRANSISTORS

Part Number	Operating Frequency (GHz)	Glin (dB)@Freq (GHz)	Saturated Power (W)	PAE (%) @ Freq (GHz)	Bias (A)	Bias (V)	Case
CHKA011aSXA	Up to 1.5	23.5 @ 0.44	130	75 @ 0.5	0.64	50	Hermetic Metal Ceramic Flange
CHKA012a99F	Up to 4	19 @ 3	140	65 @ 3	0.65	50	Die
CHK8201-SYA	Up to 4	22 @ 1.3	45	55 @ 1.3	0.2	50	Hermetic Metal Ceramic Flange
CHKA012bSYA	Up to 6	19 @ 1.3	130	58 @ 1.3	0.6	50	Hermetic Metal Ceramic Flange
CHK5010-99F	Up to 12	22 @ 6	4	65 @ 1.3	0.1	30	Hermetic Metal Ceramic Flange
CHK8101-SYC	Up to 6	19 @ 1.3	15	65 @ 1.3	0.1	50	Hermetic Metal Ceramic Flange

PHASE SHIFTER

Part Number	RF Bandwidth (GHz)	Number of Bits	Phase range (°)	Insertion Loss (dB)	Phase Error (°p-p)	P-1dB IN (dBm)	Control Voltage (V)	Case
CHP4010-99F	7-9	6	360	9	-4/4.5	26	-3.5 / 0	Die

ATTENUATOR - ANALOG

Part Number	RF Bandwidth (GHz)	Amplitude Control (dB)	P-1dB IN (dBm)	Case
CHT4660-FAB	0.5-16	35	27	Hermetic SMD

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