



Short Form Catalog

RF power solutions for
MultiMarket



Advancing society through **RF**

Explore our comprehensive catalog offering a diverse array of MultiMarket RF power amplifiers tailored for Industrial, Scientific, Medical (ISM), broadcast, navigation, and safety radio applications. Stay informed with the latest advancements in Solid State Power Amplifiers (SSPAs) that continually push the boundaries of peak power and system power combining, paving the way for compact, cost-effective alternatives to traditional tube-based technologies with reduced maintenance requirements.

Key highlights of our catalog include:

- **Advanced Rugged Transistors (ART):** recognized for their unparalleled performance, ART transistors dominate ISM markets, meeting the rigorous demands of modern ISM designs.
- **High Power GaN on SiC HEMTs:** from UHF frequencies onwards, GaN SSPAs offer superior output power levels and remarkable efficiency, ideal for pulsed, broadband, and continuous wave (CW) applications, surpassing the traditional LDMOS amplifiers.
- **Industry-leading LDMOS amplifiers:** featuring the BLF989 and BLF989E models, designed to meet the diverse needs of UHF-TV broadcast applications, alongside discrete wideband LDMOS amplifiers and drivers like the BLF978P and BLF974P.
- **Cutting-edge LDMOS transistors for radar applications:** our latest offerings in UHF, Avionics, L-band, and S-band GaN and LDMOS transistors deliver exceptional efficiency and performance, ensuring optimal cost-effectiveness.

All new products are based upon latest GaN HEMT and LDMOS technology generations, adhering to the highest quality and reliability standards from our own factories as well as from leading external manufacturers we partner with.

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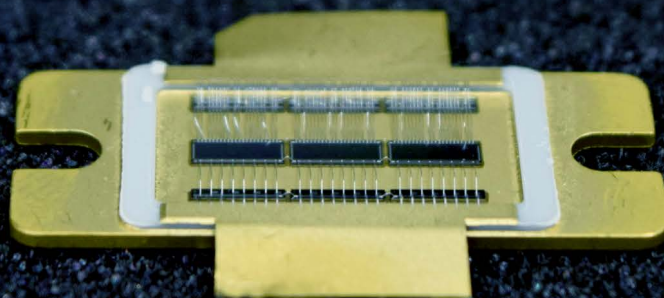
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(A)dvanced (R)ugged (T)echnology

The ART of transforming dreams into reality



www.ampleon.com/art

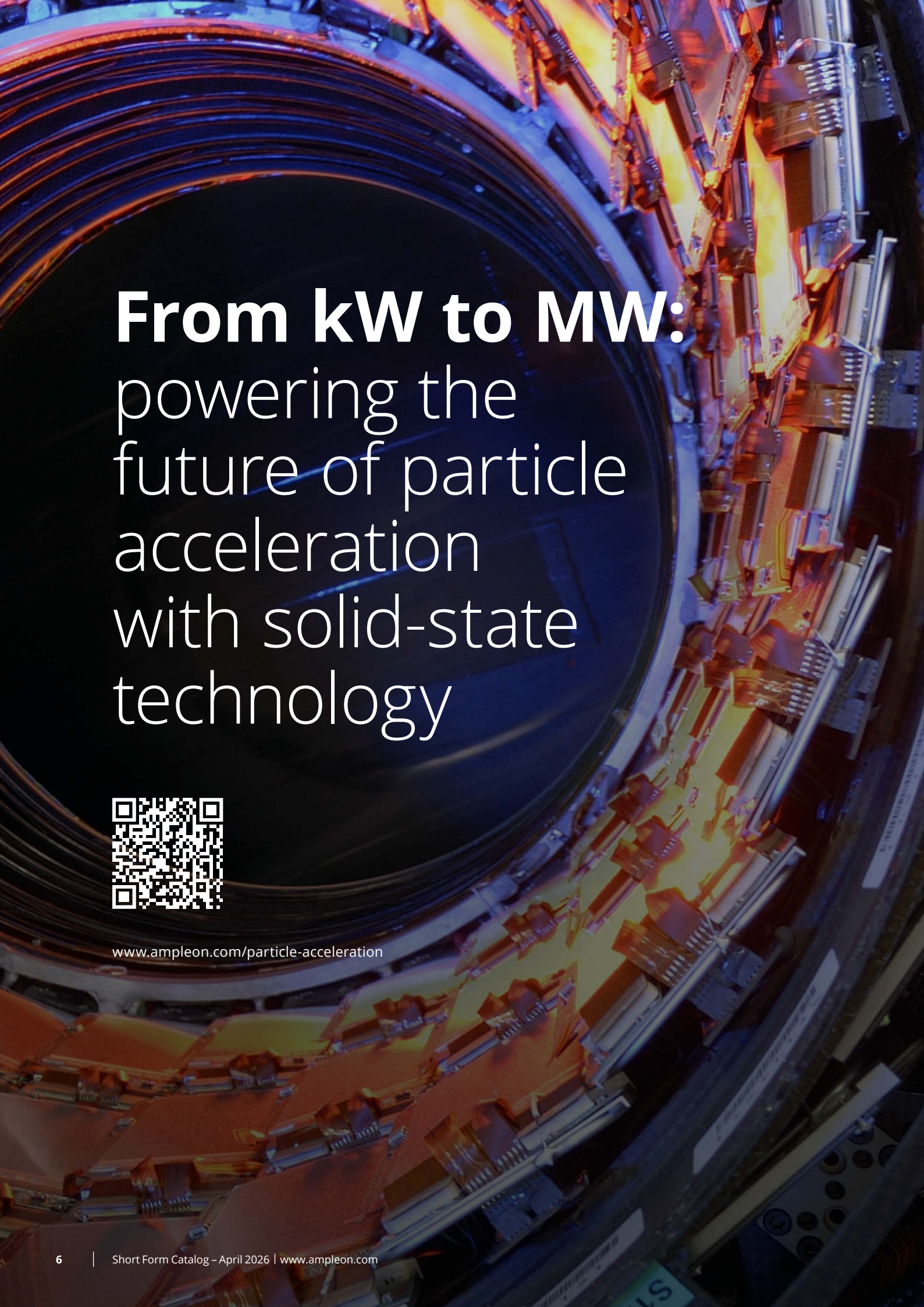


RF DesignCare:

examples of success stories with our specialized RF design services



www.ampleon.com/rf-designcare

A detailed, close-up view of a particle accelerator's internal structure, showing complex metal components, wiring, and a large circular tunnel. The lighting is dramatic, with warm orange and yellow highlights on the right side and cooler blue and purple tones on the left, creating a sense of depth and technological sophistication.

From kW to MW: powering the future of particle acceleration with solid-state technology



www.ampleon.com/particle-acceleration

RF beauty devices – skin, body & rejuvenation applications powered by LDMOS



www.ampleon.com/rf-beauty

Discrete wideband LDMOS amplifiers

Frequency (MHz)	Type number	Technology	Package family	Package outline	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended driver	Status
433	BLP05H9S500P	Gen9 LDMOS	OMP	OMP-780-4F-1	500	50	75	25.3	BLP15H9S10	Production
1–520	BLP5LA55S	Gen9 LDMOS	OMP	TO-270-2F-1	55	13.6	78.5	19.2		Production
1–520	BLP5LA55SG	Gen9 LDMOS	OMP	TO-270-2G-1	55	13.6	78.5	19.2		Production
1–700	BLF978P	Gen9 LDMOS	ACC	SOT539A	1200	50	80	25.5	BLP15H9S30	Production
1–700	BLF974P	Gen9 LDMOS	ACC	SOT539A	500	50	77	25.3	BLP15H9S10	Production
1–941	BLP9LA25S	Gen9 LDMOS	OMP	TO-270-2F-1	25	13.6	72	18.4		Production
1–941	BLP9LA25SG	Gen9 LDMOS	OMP	TO-270-2G-1	25	13.6	72	18.4		Production
1–1300	BLF944P	Gen9 LDMOS	ACC	SOT1228A	135	32	67	20.3		Production
1–1400	BLP981	Gen9 LDMOS	OMP	TO-270-2F-1	170	50	73	23		Production
1–1500	BLP15M9S100	Gen9 LDMOS	OMP	TO-270-2F-1	100	32	68	16		Production
1–1500	BLP15M9S100G	Gen9 LDMOS	OMP	TO-270-2G-1	100	32	68	16		Production
1–1500	BLF647P	Gen7 LDMOS	ACC	SOT1121A	200	32	70	18		Production
1–2000	BLP15H9S10	Gen9 LDMOS	OMP	TO-270-2F-1	10	50	65	21		Production
1–2000	BLP15H9S10G	Gen9 LDMOS	OMP	TO-270-2G-1	10	50	65	21		Production
1–2000	BLP15H9S30	Gen9 LDMOS	OMP	TO-270-2F-1	30	50	65	21		Production
1–2000	BLP15H9S30G	Gen9 LDMOS	OMP	TO-270-2G-1	30	50	65	21		Production
1–2000	BLP15M9S30	Gen9 LDMOS	OMP	TO-270-2F-1	30	32	72	19.3		Production
1–2000	BLP15M9S30G	Gen9 LDMOS	OMP	TO-270-2G-1	30	32	72	19.3		Production
1–2000	BLP15M9S70	Gen9 LDMOS	OMP	TO-270-2F-1	70	32	70	17.6		Production
1–2000	BLP15M9S70G	Gen9 LDMOS	OMP	TO-270-2G-1	70	32	70	17.6		Production
1–2000	BLP15H9S100	Gen9 LDMOS	OMP	TO-270-2F-1	100	50	62	20		Production
1–2000	BLP15H9S100G	Gen9 LDMOS	OMP	TO-270-2G-1	100	50	62	20		Production
1–2700	BLP0427M9S20	Gen9 LDMOS	OMP	TO-270-2F-1	20	28	63	19		Production
1–2700	BLP0427M9S20G	Gen9 LDMOS	OMP	TO-270-2G-1	20	28	63	19		Production

Bold = NEW

Discrete wideband GaN amplifiers

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _L (W)	V _{DS} (V)	η_D^* (%)	G ₀ (dB)	Recommended driver	Status
0–3500	CLF3H0035-100	Gen3 GaN	ACC	SOT467C	100	50	60	14.7		Production
0–3500	CLF3H0035S-100	Gen3 GaN	ACC	SOT467B	100	50	60	14.7		Production

* @ P_{3dB}

Extremely rugged LDMOS amplifiers

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _{L(1dB)} (W)	V _{DS} (V)	η_D (%)	G ₀ (dB)	Recommended driver	Status
1–400	ART2K0FE	ART LDMOS	ACC	SOT539AN	2000	65	78	27	ART35FE ART150FE/PE(G)	Production
1–400	ART2K0FES	ART LDMOS	ACC	SOT539BN	2000	65	78	27	ART35FE ART150FE/PE(G)	Production
1–400	ART2K0FEG	ART LDMOS	ACC	SOT1248C	2000	65	78	27	ART35FE ART150FE/PE(G)	Production
1–400	ART2K0TFE	ART LDMOS	ACC	ACC-1230-6F-3	2000	65	73	29	ART35FE	Production
1–400	ART2K0TFES	ART LDMOS	ACC	ACC-1230-6F-2	2000	65	73	29	ART35FE	Production
1–400	ART2K0TFEG	ART LDMOS	ACC	ACC-1230-6G-2	2000	65	73	29	ART35FE	Production
1–400	ART2K5TPU	ART LDMOS	OMP	OMP-1230-6F-2	2500	75	76	28.5	ART150PE	Production
1–400	ART2K5TFUS	ART LDMOS	ACC	ACC-1230-6F-2	2500	75	76	29.5	ART35FE	Production
1–400	ART2K5TFUG	ART LDMOS	ACC	ACC-1230-6G-2	2500	75	76	29.5	ART35FE	Production
1–425	ART1K6FH	ART LDMOS	ACC	SOT539AN	1600	55	77	29	ART35FE BLP15H9S10	Production
1–425	ART1K6FHS	ART LDMOS	ACC	SOT539BN	1600	55	77	29	ART35FE BLP15H9S10	Production
1–425	ART1K6FHG	ART LDMOS	ACC	SOT1248C	1600	55	77	29	ART35FE BLP15H9S10	Production
1–450	ART700FH	ART LDMOS	ACC	SOT1214A	700	50	77	29	BLP15H9S10	Production
1–450	ART700FHS	ART LDMOS	ACC	SOT1214B	700	50	77	29	BLP15H9S10	Production
1–450	ART700FHG	ART LDMOS	ACC	SOT1214C	700	50	77	29	BLP15H9S10	Production
1–450	ART1K6PH	ART LDMOS	ACC	OMP-1230-4F-1	1400 / 1600	50 / 55	77.7 / 76.4	27.2 / 28.2	ART35FE	Production
1–450	ART1K6PHG	ART LDMOS	ACC	OMP-1230-4G-1	1400 / 1600	50 / 55	77.7 / 76.4	27.2 / 28.2	ART35FE	Production
1–450	ART2K0PE	ART LDMOS	OMP	OMP-1230-4F-1	2000	65	71.7	27.7	ART35FE ART150PE	Production
1–450	ART2K0PEG	ART LDMOS	OMP	OMP-1230-4G-1	2000	65	71.7	27.7	ART35FE ART150PE	Production
1–450	ART4K0FX	ART LDMOS	ACC	SOT539A	1980	65	86	26	ART35FE	Production
1–500	ART1K9FH	ART LDMOS	ACC	SOT539A	1900	55	75	25	ART35FE	Production
1–600	ART150PE	ART LDMOS	OMP	TO-270-2F-1	150	65	82	31		Production
1–600	ART150PEG	ART LDMOS	OMP	TO-270-2G-1	150	65	82	31		Production

Bold = NEW

Extremely rugged LDMOS amplifiers (continued)

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _{L(1dB)} (W)	V _{DS} (V)	η _D (%)	G _B (dB)	Recommended driver	Status
1–650	ART35FE	ART LDMOS	ACC	SOT467C	35	65	72	30.4		Production
1–650	ART150FE	ART LDMOS	ACC	SOT467C	150	65	74.6	30.6		Production
1–650	ART450FE	ART LDMOS	ACC	SOT1121A	450	65	74	27	ART35FE	Production
1–650	ART800PE	ART LDMOS	OMP	OMP-780-4F-1	800	65	74.5	29.2	ART35FE	Production
1–650	ART800PEG	ART LDMOS	OMP	OMP-780-4G-1	800	65	74.5	29.2	ART35FE	Production

UHF broadcast amplifiers

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _{L(1dB)} (W)	V _{DS} (V)	η _D (%)	G _B (dB)	Recommended driver	Status
470–860	BLP0408H9S30	Gen9 LDMOS	OMP	TO-270-2F-1	30 / 30*	50	32	20		Production
470–860	BLP0408H9S30G	Gen9 LDMOS	OMP	TO-270-2G-1	30 / 30*	50	32	20		Production
470–860	BLF984PS	Gen9 LDMOS	ACC	SOT1121B	450 / 80*	50	34	22	BLP15H9S10	Production
470–860	BLF984P	Gen9 LDMOS	ACC	SOT1121A	450 / 80*	50	34	22	BLP15H9S10	Production
470–860	BLF989	Gen9 LDMOS	ACC	SOT539A	900 / 200*	50	53	19	BLP0408H9S30	Production
470–860	BLF989S	Gen9 LDMOS	ACC	SOT539B	900 / 200*	50	53	19	BLP0408H9S30	Production
470–860	BLF989E	Gen9 LDMOS	ACC	SOT539AN	1000 / 180*	50	52	18	BLP0408H9S30	Production
470–860	BLF989ES	Gen9 LDMOS	ACC	SOT539BN	1000 / 180*	50	52	18	BLP0408H9S30	Production
1–1400	BLP981	Gen9 LDMOS	OMP	TO-270-2F-1	170	50	73	23		Production
1–1400	BLF981	Gen9 LDMOS	ACC	SOT467C	170	50	71	24		Production
1–1400	BLF981S	Gen9 LDMOS	ACC	SOT467B	170	50	71	24		Production

* P_{L(AV)} (W)

Amplifiers matched for Industrial, Scientific, Medical (ISM) and heating applications

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _{L(1dB)} (W)	V _{DS} (V)	η _D (%)	G _B (dB)	Recommended driver	Status
433	BLP05H9S500P	Gen9 LDMOS	OMP	OMP-780-4F-1	500	50	75	25.3	BLP15H9S10	Production
580–650	CLF06H4LS1K5P	GaN	ACC	SOT539B	1500	50	80	18	BLP15H9S30	Production
915	BLF0910H9LS600	Gen9 LDMOS	ACC	SOT502B	600	50	68.5	19.8	BLP15H9S10	Production
915	BLF0910H9LS750P	Gen9 LDMOS	ACC	SOT539B	750	50	72.5	21.5	BLP15H9S10	Production
1300	BLF13H9L750P	Gen9 LDMOS	ACC	SOT539A	750	50	62.5	17	BLP15H9S30	Production
1300	BLF13H9LS750P	Gen9 LDMOS	ACC	SOT539B	750	50	62.5	17	BLP15H9S30	Production
1975–2025	BLF20M10LS200P	LDMOS	ACC	SOT1121B	200	32	69	17.3	BLP0427M9S20	Production
2450	BLM2425M9S20	Gen9 LDMOS	OMP	OMP-400-8F-1	20	32	50	27		Production
2450	BLF2425M9L30	Gen9 LDMOS	ACC	SOT1135A	30	32	61	18.5		Production

Bold = NEW

Amplifiers matched for Industrial, Scientific, Medical (ISM) and heating applications (continued)

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _L (dB) (W)	V _{DS} (V)	η _D (%)	G _B (dB)	Recommended driver	Status
2450	BLF2425M9LS30	Gen9 LDMOS	ACC	SOT1135B	30	32	61	18.5		Production
2450	BLM2425M7S60P	Gen7 LDMOS	OMP	SOT1211-3	60	32	45	27.5		Production
2450	BLF2425M9LS140	Gen9 LDMOS	ACC	SOT502B	140	28	58	19		Production
2450	BLC2425M10LS250	Gen10 LDMOS	ACP	SOT1270-1	250	32	68.5	15.2	BLM2425M9S20	Production
2450	BLP2425M10S250P	Gen10 LDMOS	OMP	OMP-780-4F-1	250	32	67.5	15.2	BLM2425M9S20	Production
2450	BLC2425M10LS500P	Gen10 LDMOS	ACP	SOT1250-1	500	32	67.5	15	BLM2425M7S60P	Production
2400–2500	CLP24H4S30P	Gen4 GaN	OMP	DFN-7x6.5-6-1	25	50	75	17		Production
2400–2500	CLF24H4LS300P	Gen4 GaN	ACC	SOT1214B	320	50	74	14	CLP24H4S30P	Production

UHF and avionics pulsed radar amplifiers

Frequency (MHz)	Type number	Technology	Package family	Package outline	P _L (dB) (W)	V _{DS} (V)	η _D (%)	G _B (dB)	Recommended driver	Status
1–1400	BLP981	Gen9 LDMOS	OMP	TO-270-2F-1	170	50	73	23		Production
400–800	BLU9H0408L-800P	Gen9 LDMOS	ACC	SOT539A	800	50	70	22	BLP0408H9S30	Production
960–1215	BLA9H0912L-250G	Gen9 LDMOS	ACC	SOT502F	250	50	60	22	BLP15H9S10	Production
960–1215	BLA9H0912LS-250	Gen9 LDMOS	ACC	SOT502B	250	50	60	22	BLP15H9S10	Production
960–1215	BLA9H0912LS-250G	Gen9 LDMOS	ACC	SOT502E	250	50	60	22	BLP15H9S10	Production
960–1215	BLA9H0912L-250	Gen9 LDMOS	ACC	SOT502A	250	50	60	22	BLP15H9S10	Production
960–1215	BLA9H0912L-700G	Gen9 LDMOS	ACC	SOT502F	700	50	62	20	BLP15H9S10	Production
960–1215	BLA9H0912LS-700	Gen9 LDMOS	ACC	SOT502B	700	50	62	20	BLP15H9S10	Production
960–1215	BLA9H0912LS-700G	Gen9 LDMOS	ACC	SOT502E	700	50	62	20	BLP15H9S10	Production
960–1215	BLA9H0912L-700	Gen9 LDMOS	ACC	SOT502A	700	50	62	20	BLP15H9S10	Production
960–1215	BLA9H0912L-1200P	Gen9 LDMOS	ACC	SOT539A	1200	50	60	19	BLP15H9S30	Production
960–1215	BLA9H0912LS-1200P	Gen9 LDMOS	ACC	SOT539B	1200	50	60	19	BLP15H9S30	Production
960–1215	BLA9H0912LS-1200PG	Gen9 LDMOS	ACC	SOT1248C	1200	50	60	19	BLA6H0912LS-1000	Production
1030–1090	BLA9G1011L-300	Gen9 LDMOS	ACC	SOT502A	317	32	64.8	21.5	BLP0427M9S20	Production
1030–1090	BLA9G1011L-300G	Gen9 LDMOS	ACC	SOT502F	317	32	64.8	21.5	BLP0427M9S20G	Production
1030–1090	BLA9G1011LS-300	Gen9 LDMOS	ACC	SOT502B	317	32	64.8	21.5	BLP0427M9S20	Production
1030–1090	BLA9G1011LS-300G	Gen9 LDMOS	ACC	SOT502E	317	32	64.8	21.5	BLP0427M9S20G	Production

Bold = NEW

High-power GaN RF transistors for -pulse performance



www.ampleon.com/long-pulse-radar-systems

L-band and S-band pulsed radar amplifiers

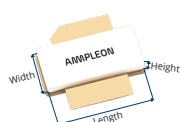
Frequency (MHz)	Type number	Technology	Package family	Package outline	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended driver	Status
900–1400	CLL3H0914L-700	Gen3 GaN	ACC	SOT502A	750	50	71	16	BLP15H9S30	Production
900–1400	CLL3H0914LS-700	Gen3 GaN	ACC	SOT502B	750	50	71	16	BLP15H9S30	Production
1200–1400	BLL9G1214L-600	Gen9 LDMOS	ACC	SOT502A	600	32	60	19	BLP0427M9S20	Production
1200–1400	BLL9G1214LS-600	Gen9 LDMOS	ACC	SOT502B	600	32	60	19	BLP0427M9S20	Production
2700–2900	BLS9G2729L-350	Gen9 LDMOS	ACC	SOT502A	350	28	50	14	BLS9G2735L-50	Production
2700–2900	BLS9G2729LS-350	Gen9 LDMOS	ACC	SOT502B	350	28	50	14	BLS9G2735LS-50	Production
2700–3100	BLS9G2731L-400	Gen9 LDMOS	ACC	SOT502A	400	32	47	13	BLS9G2735L-50	Production
2700–3100	BLS9G2731LS-400	Gen9 LDMOS	ACC	SOT502B	400	32	47	13	BLS9G2735LS-50	Production
2700–3100	CLS3H2731L-700	Gen3 GaN	ACC	SOT502A	725	50	58	14	CLF3H0035-100	Production
2700–3100	CLS3H2731LS-700	Gen3 GaN	ACC	SOT502B	725	50	58	14	CLF3H0035S-100	Production
2700–3500	BLS9G2735L-50	Gen9 LDMOS	ACC	SOT1135A	45	32	48	12		Production
2700–3500	BLS9G2735LS-50	Gen9 LDMOS	ACC	SOT1135B	45	32	48	12		Production
2900–3400	BLS9G2934L-400	Gen9 LDMOS	ACC	SOT502A	400	32	43	12	BLS9G2735L-50	Production
2900–3400	BLS9G2934LS-400	Gen9 LDMOS	ACC	SOT502B	400	32	43	12	BLS9G2735LS-50	Production
3100–3500	BLS9G3135L-115	Gen9 LDMOS	ACC	SOT1135A	115	32	49	14		Production
3100–3500	BLS9G3135LS-115	Gen9 LDMOS	ACC	SOT1135B	115	32	49	14		Production
3100–3500	BLS9G3135L-400	Gen9 LDMOS	ACC	SOT502A	400	32	43	12	BLS9G2735L-50	Production
3100–3500	BLS9G3135LS-400	Gen9 LDMOS	ACC	SOT502B	400	32	43	12	BLS9G2735LS-50	Production
3100–3500	CLS3H3135L-700	Gen3 GaN	ACC	SOT502A	700	50	57	13.2	CLF3H0035-100	Production
3100–3500	CLS3H3135LS-700	Gen3 GaN	ACC	SOT502B	700	50	57	13.2	CLF3H0035S-100	Production

Bold = NEW

Package portfolio

Ampleon's package overview is available on www.ampleon.com/packages

Air-Cavity Ceramic (ACC) packages*



Package type
Package outline
(L x W x H (mm))



ACC-400
SOT1135A
(9.65 x 9.65 x 4.65 (mm))



ACC-400
SOT1135B
(9.65 x 9.65 x 4.65 (mm))



ACC-780
SOT502A
(20.02 x 9.5 x 4.72 (mm))



ACC-780
SOT502B
(20.02 x 9.5 x 4.72 (mm))



ACC-780
SOT502E
(20.02 x 9.53 x 4.72 (mm))



ACC-780
SOT502F
(20.02 x 9.53 x 4.7 (mm))



ACC-780
SOT1121A
(20.02 x 9.53 x 4.75 (mm))



ACC-780
SOT1121B
(20.02 x 9.53 x 4.75 (mm))



ACC-780
SOT1214A
(20.02 x 9.53 x 4.72 (mm))



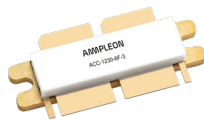
ACC-780
SOT1214B
(20.02 x 9.53 x 4.72 (mm))



ACC-780
SOT1214C
(20.02 x 9.53 x 4.72 (mm))



ACC-1230
ACC-1230-6F-2
(31.55 x 9.5 x 5.5 (mm))



ACC-1230
ACC-1230-6F-3
(31.55 x 9.5 x 5.5 (mm))



ACC-1230
ACC-1230-6G-2
(31.55 x 9.5 x 5.5 (mm))



ACC-1230
SOT539A
(31.55 x 9.5 x 4.7 (mm))



ACC-1230
SOT539AN
(31.55 x 9.5 x 4.7 (mm))



ACC-1230
SOT539B
(31.55 x 9.5 x 4.7 (mm))



ACC-1230
SOT539BN
(31.55 x 9.5 x 4.7 (mm))



ACC-1230
SOT1248C
(31.55 x 9.5 x 5.5 (mm))



SOT467
SOT467B
(9.25 x 5.92 x 4.67 (mm))



SOT467
SOT467C
(9.25 x 5.92 x 4.67 (mm))



SOT1227
SOT1227A
(5.18 x 4.17 x 3.68 (mm))



SOT1227
SOT1227B
(5.18 x 4.17 x 3.68 (mm))



SOT1228
SOT1228A
(16.66 x 5.92 x 5.2 (mm))

* Not drawn to scale

Package portfolio

Ampleon's package overview is available on www.ampleon.com/packages

Air-Cavity Plastic (ACP) packages*



ACP-780
SOT1270-1
(20.42 x 9.8 x 4.01 (mm))



ACP-1230
SOT1250-1
(31.44 x 9.6 x 4.65 (mm))

Overmolded Plastic (OMP) packages*



DFN-7x6.5
DFN-7x6.5-6-1
(7 x 6.5 x 0.85 (mm))



OMP-400
OMP-400-8F-1
(10.3 x 10.3 x 3.92 (mm))



OMP-780
OMP-780-4F-1
(20.75 x 9.96 x 3.92 (mm))



OMP-780
OMP-780-4G-1
(20.75 x 9.96 x 3.92 (mm))



OMP-780
SOT1211-3
20.75 x 9.96 x 3.92 (mm)



OMP-1230
OMP-1230-4F-1
(32.43 x 9.96 x 3.92 (mm))



OMP-1230
OMP-1230-4G-1
(32.43 x 9.96 x 3.92 (mm))



OMP-1230
OMP-1230-6F-2
(32.43 x 9.96 x 3.92 (mm))



TO-270
TO-270-2F-1
(9.65 x 6.1 x 2.03 (mm))



TO-270
TO-270-2G-1
(9.65 x 6.1 x 2.03 (mm))

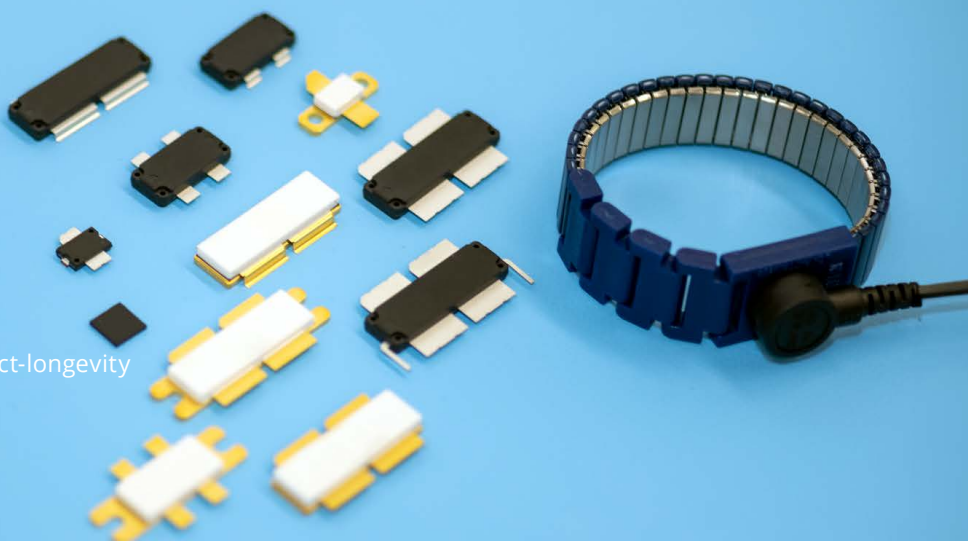
* Not drawn to scale

Product longevity

We ensure reliable supply by offering extended availability from a product's launch onwards.



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