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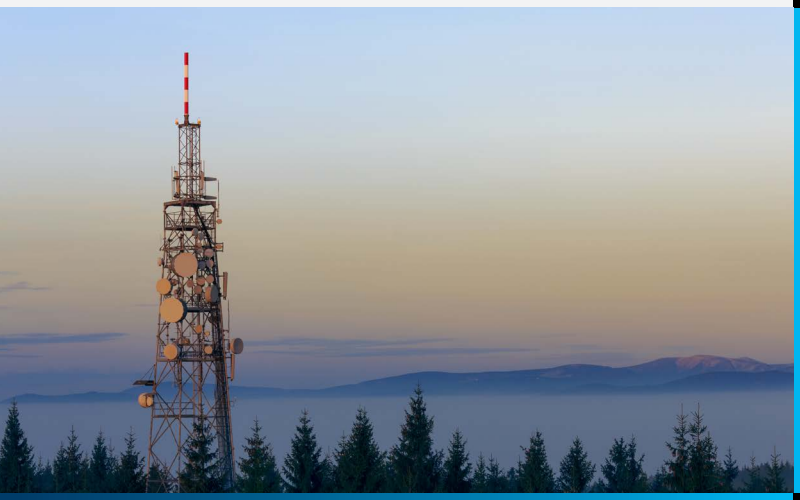
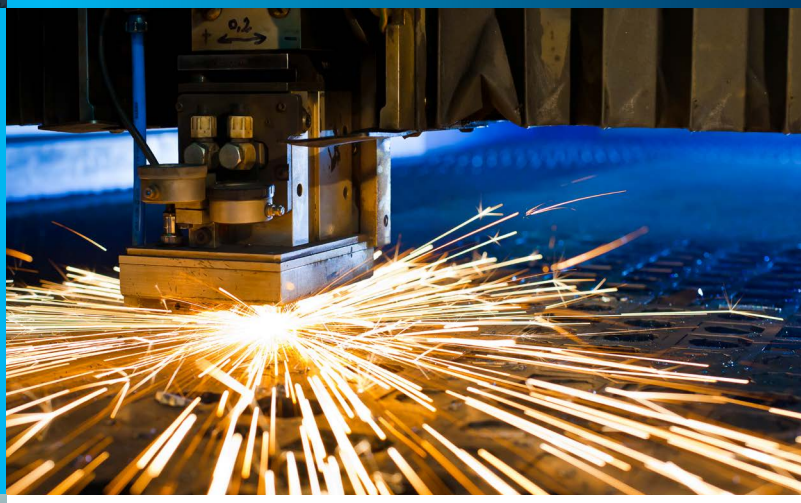


Short Form Catalog

RF Power Solutions for

Broadcast
Industrial, Scientific and Medical
Aerospace & Defense
Cooking and Defrosting



October 2021

The Leading Global Partner in **RF** Power

This catalog is designed to give you an updated overview of our wide range of multi-market RF Power amplifiers targeting broadcast, industrial, scientific, medical, heating, non-cellular communication as well as aerospace and defense applications.

With brand new products constantly emerging, we continue supporting customer needs for current and future applications and ensuring business continuity with successor products.

Highlights of this catalog include:

- The new UHF-TV LDMOS broadcast amplifiers BLF989 and BLF989E addressing the demands for higher efficiency and larger bandwidth coverage
- The new line of 65 and 50 Volts Advanced Rugged Transistors (ART) designed to unlock so far untapped levels of 200 Volts breakdown voltages in ceramic and plastic packages
- Next-generation discrete wideband LDMOS amplifiers and drivers such as the BLF978P and the BLF974P (successor to the BLF578 and BLF574) as well as the recently introduced 13.6 Volts BLP5LA55S and BLP9LA25S transistors
- Latest industry leading pallets and transistors tailored for plasma generation and heating applications at 915 MHz (BPF0910H9X600) and 2.4 GHz (BLP2425M10S250P)
- Latest UHF, Avionics, L-band and S-band LDMOS transistors for radar applications enabling best-in-class efficiency figures at a well optimized cost structure

All new products are based upon 9th generation technology and beyond, exploiting the highest quality and reliability standards from our own factories as well as qualified outside vendors.

Download the **Latest** Version

As we continuously update this shortform catalogue, we recommend to download the latest version: www.ampleon.com/sfc

Discrete Wideband LDMOS Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
433	BLP05H9S500P	Gen9 - LDMOS	OMP	OMP-780-4F-1	500	50	75	25.3	BLP15H9S10		Production
1-700	**BLF978P**	Gen9 LDMOS	ACC	SOT539A	1200	50	80	25.5	BLP15H9S30	BLF578 BLF178P	Production
1-700	**BLF974P**	Gen9 LDMOS	ACC	SOT539A	500	50	77	25.3	BLP15H9S10	BLF574	Production
1-2000	**BLP15H9S10**	Gen9 LDMOS	OMP	SOT1482-1	10	50	65	21		BLP10H610	Production
1-2000	**BLP15H9S10G**	Gen9 LDMOS	OMP	SOT1483-1	10	50	65	21		BLP10H610	Production
1-2000	**BLP15H9S30**	Gen9 LDMOS	OMP	SOT1482-1	30	50	65	21		BLP10H630P	Production
1-2000	**BLP15H9S30G**	Gen9 LDMOS	OMP	SOT1483-1	30	50	65	21		BLP10H630PG	Production
1-2000	**BLP15H9S100**	Gen9 LDMOS	OMP	SOT1482-1	100	50	62	20		BLP10H690P BLP10H6120P	Production
1-2000	**BLP15H9S100G**	Gen9 LDMOS	OMP	SOT1483-1	100	50	62	20		BLP10H690PG BLP10H6120P	Production
1-2000	BLP15M9S30	Gen9 LDMOS	OMP	SOT1482-1	30	32	72	19.3		BLF642	Production
1-2000	BLP15M9S30G	Gen9 LDMOS	OMP	SOT1483-1	30	32	72	19.3		BLF642	Production
1-2700	BLP0427M9S20	Gen9 LDMOS	OMP	SOT1482-1	20	28	63	19			Production
1-2700	BLP0427M9S20G	Gen9 LDMOS	OMP	SOT1483-1	20	28	63	19			Production
1-2000	**BLP15M9S70**	Gen9 LDMOS	OMP	SOT1482-1	70	32	70	17.6		BLF644P	Production
1-2000	**BLP15M9S70G**	Gen9 LDMOS	OMP	SOT1483-1	70	32	70	17.6		BLF644P	Production
1-1500	**BLP15M9S100**	Gen9 LDMOS	OMP	SOT1482-1	100	32	68	16		BLF645	Production
1-1500	**BLP15M9S100G**	Gen9 LDMOS	OMP	SOT1483-1	100	32	68	16		BLF645	Production
1-520	**BLP5LA55S**	Gen9 LDMOS	OMP	SOT1482-1	55	13.6	78.5	19.2			Production
1-941	**BLP9LA25S**	Gen9 LDMOS	OMP	SOT1482-1	25	13.6	72	18.4			Production
1-941	**BLP9LA25SG**	Gen9 LDMOS	OMP	SOT1483-1	25	13.6	72	18.4			Production
1-2700	BLP27M810	Gen8 LDMOS	OMP	SOT1371-1	10	32	50.6	18.4			Production
1-3500	BLP35M805	Gen8 LDMOS	OMP	SOT1371-1	5	32	50	20			Production
1-1500	BLP15M7160P	Gen7 LDMOS	OMP	SOT1223-2	160	28	59.7	19.4	BLP27M810		Production
1-1500	BLF647P	Gen7 LDMOS	ACC	SOT1121A	200	32	70	18	BLP27M810		Production
1-1400	BLP10H603	Gen6 LDMOS	OMP	SOT1352-1	2.5	50	62	22.8			Production
1-1400	BLP10H605	Gen6 LDMOS	OMP	SOT1352-1	5	50	59.6	22.4			Production
1-500	BLF573	Gen6 LDMOS	ACC	SOT502A	300	50	70	27.2	BLP10H603		Production
1-500	BLF573S	Gen6 LDMOS	ACC	SOT502B	300	50	70	27.2	BLP10H603		Production

Bold = NEW

Discrete Wideband GaN Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	P_L (W)	V_{DS} (V)	η_D* (%)	G_p (dB)	Recommended Driver	Replacement for	Status
0-6000	**CLF3H0060-30**	Gen3 GaN	ACC	SOT1227A	30	50	60.4	16.7		CLF1G0060-30	Coming soon
0-6000	**CLF3H0060S-30**	Gen3 GaN	ACC	SOT1227B	30	50	60.4	16.7		CLF1G0060S-30	Coming soon
0-3500	**CLF3H0035-100**	Gen3 GaN	ACC	SOT467C	100	50	60	14.7	CLF3H0060-30	CLF1G0035-100	Coming soon
0-3500	**CLF3H0035S-100**	Gen3 GaN	ACC	SOT467B	100	50	60	14.7	CLF3H0060S-30	CLF1G0035S-100	Coming soon
0-3500	**CLF3H0035-200P**	Gen3 GaN	ACC	SOT1228A	200	50	55	14	CLF3H0060-30	CLF1G0035-200P	Coming soon
0-3500	**CLF3H0035S-200P**	Gen3 GaN	ACC	SOT1228B	200	50	55	14	CLF3H0060S-30	CLF1G0035S-200P	Coming soon
900-1400	**CLL3H0914L-700**	Gen3 GaN	ACC	SOT502A	750	50	71	16	CLF3H0060-30 BLP15H9S30		Coming soon
900-1400	**CLL3H0914LS-700**	Gen3 GaN	ACC	SOT502B	750	50	71	16	CLF3H0060S-30 BLP15H9S30		Coming soon

* @ P_{3dB}

Extremely Rugged LDMOS Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
1-425	**ART1K6FH**	ART LDMOS	ACC	SOT539AN	1600	55	77	29	ART35FE BLP15H9S10	BLF188XR BLF189XRA	Production
1-400	**ART2K0FE**	ART LDMOS	ACC	SOT539AN	2000	65	78	27	ART35FE ART150FE		Production
1-450	**ART700FH**	ART LDMOS	ACC	SOT1214A	700	50	77	29	BLP15H9S10	BLF184XR BLF174XR	Production
1-600	**ART700PE**	ART LDMOS	OMP	SOT1138-3	700	65	78	28	ART35FE	BLF184XRS BLP05H6700XR	Coming soon
1-600	**ART700PE**	ART LDMOS	OMP	SOT1204-3	700	65	78	28	ART35FE	BLF184XR BLP05H6700XRG	Coming soon
1-650	**ART150FE**	ART LDMOS	ACC	SOT467C	150	65	74.6	30.6		BLF177	Production
1-600	**ART150PE**	ART LDMOS	OMP	SOT1482-1	150	65	77	28		BLP05H6150XR	Coming soon
1-600	**ART150PEG**	ART LDMOS	OMP	SOT1483-1	150	65	77	28		BLP05H6150XRG	Coming soon
1-650	**ART35FE**	ART LDMOS	ACC	SOT467C	35	65	72	30.4		BLF571 BLP05H635XR	Production
1-600	BLP05H6350XR	XR LDMOS	OMP	SOT1223-2	350	50	75	27.5	BLP10H605		Production
1-600	BLP05H6350XRG	XR LDMOS	OMP	SOT1224-2	350	50	75	27.5	BLP10H605		Production
1-600	BLF183XR	XR LDMOS	ACC	SOT1121A	350	50	75	28	BLP10H603		Production
1-600	BLF183XRS	XR LDMOS	ACC	SOT1121B	350	50	75	28	BLP10H603		Production

Bold = NEW

UHF Broadcast Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
470-860	BLP0408H9S30	Gen9 - LDMOS	OMP	SOT1482-1	30 / 30*	50	32	20			Production
470-860	BLF989	Gen9 - LDMOS	ACC	SOT539A	900 / 200*	50	53	19	BLP0408H9S30	BLF888x BLF898	Production
470-860	BLF989S	Gen9 - LDMOS	ACC	SOT539B	900 / 200*	50	53	19	BLP0408H9S30	BLF888xS BLF898S	Production
470-860	**BLF989E**	Gen9 - LDMOS	ACC	SOT539AN	1000 / 180*	50	52	18	BLP0408H9S30	BLF888E	Production
470-860	**BLF989ES**	Gen9 - LDMOS	ACC	SOT539BN	1000 / 180*	50	52	18	BLP0408H9S30	BLF888ES	Production
470-860	**BLF984PS**	Gen9 - LDMOS	ACC	SOT1121B	450 / 80*	50	34	22	BLP15H9S10	BLF884PS	Production
470-860	**BLF984P**	Gen9 - LDMOS	ACC	SOT1121A	450 / 80*	50	34	22	BLP15H9S10	BLF884P	Production
470-860	BLF882	Gen6 - LDMOS	ACC	SOT502A	200 / 33*	50	63	20.6	BLP10H605		Production
470-860	BLF882S	Gen6 - LDMOS	ACC	SOT502B	200 / 33*	50	63	20.6	BLP10H605		Production
470-860	BLF881	Gen6 - LDMOS	ACC	SOT467C	140 / 33*	50	49	21	BLP10H605		Production
470-860	BLF881S	Gen6 - LDMOS	ACC	SOT467B	140 / 33*	50	49	21	BLP10H605		Production

* $P_{L(AV)}$ (W)

Amplifiers Matched for Industrial, Scientific, Medical and Heating Applications

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
433	BLP05H9S500P	Gen9 - LDMOS	OMP	OMP-780-4F-1	500	50	75	25.3	BLP10H605		Production
433	BLP05M7200	Gen7 - LDMOS	OMP	SOT1138-2	200	28	77	21	BLP35M805		Production
915	BLF0910H9LS750P	Gen9 - LDMOS	ACC	SOT539B	750	50	72.5	21.5	BLP15H9S10		Production
915	BLF0910H9LS600	Gen9 - LDMOS	ACC	SOT502B	600	50	68.5	19.8	BLP15H9S10	BLF0910H6L500	Production
915	**BPF0910H9X600**	Gen9 - LDMOS	50Ω I/O Pallet	92x60 mm² PCB	600	50	68	18	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
2450	BLF2425M9L30	Gen9 - LDMOS	ACC	SOT1135A	30	32	61	18.5	BLP27M810		Production
2450	BLF2425M9LS30	Gen9 - LDMOS	ACC	SOT1135B	30	32	61	18.5			Production
2450	BLF2425M9LS140	Gen9 - LDMOS	ACC	SOT502B	140	28	58	19	BLP35M805		Production
2450	BLM2425M7S60P	Gen7 - LDMOS	OMP	SOT1211-3	60	32	45	27.5			Production
2450	BLC2425M10LS500P	Gen10 - LDMOS	ACP	SOT1250-1	500	32	67.5	15	BLM2425M7S60P		Production
2450	BLC2425M10LS250	Gen10 - LDMOS	ACP	SOT1270-1	250	32	68.5	15.2	BLM2425M9S20	BLC2425M8LS300P BLF2425M7LS250P	Production
2450	**BLM2425M9S20**	Gen9 - LDMOS	OMP	OMP-400-8F-1	20	32	50	27			Production
2450	**BLP2425M10S250P**	Gen10 - LDMOS	OMP	OMP-780-4F-1	250	32	67.5	15.2	BLM2425M9S20		Production
2450	BPC2425M9X2S250-1	Gen9 - LDMOS	50Ω I/O Pallet	72x34 mm² PCB	250	32	61	32			Production
2450	BPC2425M7X60	Gen7 - LDMOS	50Ω I/O Pallet	72x34 mm² PCB	60	32	42	26.5			Production
2450	BPC2425M9X250	Gen9 - LDMOS	50Ω I/O Pallet	52x34 mm² PCB	280	32	63	17.5	BLM2425M9S20		Production

Bold = NEW

UHF and Avionics Pulsed Radar Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
400-800	**BLU9H0408L-800P**	Gen9 LDMOS	ACC	SOT539A	800	50	70	22	BLP0408HS30P		Production
900-930	BLA8H0910L-500	Gen6 LDMOS	ACC	SOT502A	500	50	62.5	19.5	BLP15H9S10	BLA6H1011-600	Production
900-930	BLA8H0910LS-500	Gen6 LDMOS	ACC	SOT502B	500	50	62.5	19.5	BLP15H9S10		Production
960-1215	BLA9H0912L-250G	Gen9 LDMOS	ACC	SOT502F	250	50	60	22	BLP10H605		Production
960-1215	BLA9H0912LS-250	Gen9 LDMOS	ACC	SOT502B	250	50	60	22	BLP10H605		Production
960-1215	BLA9H0912LS-250G	Gen9 LDMOS	ACC	SOT502E	250	50	60	22	BLP10H605		Production
960-1215	BLA9H0912L-250	Gen9 LDMOS	ACC	SOT502A	250	50	60	22	BLP10H605		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	BLA6H0912-500	Production
960-1215	BLA9H0912L-1200P	Gen9 LDMOS	ACC	SOT539A	1200	50	60	19	BLP15H9S30	BLA6H0912L-1000	Production
960-1215	BLA9H0912LS-1200P	Gen9 LDMOS	ACC	SOT539B	1200	50	60	19	BLP15H9S30	BLA6H0912LS-1000	Production
960-1215	BLM9H0911S-60PG	Gen9 LDMOS	OMP	OMP-780-16G-1	50	50	40	30			Coming soon
1030-1090	BLA9G1011L-300	Gen9 LDMOS	ACC	SOT502A	317	32	64.8	21.5	BLP0427M9S20	BLA8G1011L-300 BLA6G1011-200R	Production
1030-1090	BLA9G1011L-300G	Gen9 LDMOS	ACC	SOT502F	317	32	64.8	21.5	BLP0427M9S20G	BLA8G1011L-300G BLA6G1011L-200RG	Production
1030-1090	BLA9G1011LS-300	Gen9 LDMOS	ACC	SOT502B	317	32	64.8	21.5	BLP0427M9S20	BLA8G1011LS-300	Production
1030-1090	BLA9G1011LS-300G	Gen9 LDMOS	ACC	SOT502E	317	32	64.8	21.5	BLP0427M9S20G	BLA8G1011LS-300G BLA6G1011LS-200RG	Production

L-band and S-band Pulsed Radar Amplifiers

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
500-1400	BLL8H0514L-130	Gen6 LDMOS	ACC	SOT1135A	130	50	50	17	BLP15H9S10	BLL6H0514L-130	Production
500-1400	BLL8H0514LS-130	Gen6 LDMOS	ACC	SOT1135B	130	50	50	17	BLP15H9S10	BLL6H0514LS-130	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
1200-1400	BLL8H1214L-250	Gen6 LDMOS	ACC	SOT502A	250	50	55	17	BLP15H9S30	BLL6H1214L-250	Production
1200-1400	BLL8H1214L-500	Gen6 LDMOS	ACC	SOT539A	500	50	50	17	BLP15H9S30	BLL6H1214-500	Production
1200-1400	BLL8H1214LS-250	Gen6 LDMOS	ACC	SOT502B	250	50	55	17	BLP15H9S30	BLL6H1214LS-250	Production
1200-1400	BLL8H1214LS-500	Gen6 LDMOS	ACC	SOT539B	500	50	50	17	BLP15H9S30	BLL6H1214LS-500	Production
2700-3500	BLS9G2735L-50	Gen9 LDMOS	ACC	SOT1135A	45	32	48	12	BLP35M805	BLS6G2735L-30	Production
2700-3500	BLS9G2735LS-50	Gen9 LDMOS	ACC	SOT1135B	45	32	48	12	BLP35M805	BLS6G2735LS-30	Production
2700-3100	BLS9G2731L-400	Gen9 LDMOS	ACC	SOT502A	400	32	47	13	BLS9G2735L-50	BLS8G2731L-400P	Production
2700-3100	BLS9G2731LS-400	Gen9 LDMOS	ACC	SOT502B	400	32	47	13	BLS9G2735LS-50	BLS8G2731LS-400P	Production

Bold = NEW

L-band and S-band Pulsed Radar Amplifiers (continued)

Frequency (MHz)	Type Number	Technology	Package Type	Package	$P_{L(1dB)}$ (W)	V_{DS} (V)	η_D (%)	G_p (dB)	Recommended Driver	Replacement for	Status
2700-2900	BLS9G2729L-350	Gen9 LDMOS	ACC	SOT502A	350	28	50	14	BLS9G2735L-50	BLS7G2729L-350P	Production
2700-2900	BLS9G2729LS-350	Gen9 LDMOS	ACC	SOT502B	350	28	50	14	BLS9G2735LS-50	BLS7G2729LS-350P	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		BLS6G3135-120	Production
3100-3500	BLS9G3135LS-115	Gen9 LDMOS	ACC	SOT1135B	115	32	49	14		BLS6G3135S-120	Production
3100-3500	BLS9G3135L-400	Gen9 LDMOS	ACC	SOT502A	400	32	43	12	BLS9G2735L-50	BLS7G3135L-350P	Production
3100-3500	BLS9G3135LS-400	Gen9 LDMOS	ACC	SOT502B	400	32	43	12	BLS9G2735LS-50	BLS7G3135LS-350P	Production

Package Portfolio

Air-Cavity Ceramic (ACC) Packages*

SOT467B
(9.7 x 5.8 x max. 4.7 (mm))

SOT467C
(20.3 x 5.8 x max. 4.7 (mm))

SOT502A
(34.0 x 9.8 x max. 4.7 (mm))

SOT502B
(20.6 x 9.8 x max. 4.7 (mm))

SOT502E
(20.6 x 9.8 x max. 4.7 (mm))

SOT502F
(34.0 x 9.8 x max. 4.7 (mm))

SOT539A
(41.2 x 10.2 x max. 4.7 (mm))

SOT539AN
(41.2 x 10.2 x max. 4.7 (mm))

SOT539B
(32.3 x 10.2 x max. 4.7 (mm))

SOT539BN
(32.3 x 10.2 x max. 4.7 (mm))

SOT1121A
(34.0 x 9.8 x max. 4.7 (mm))

SOT1121B
(20.6 x 9.8 x max. 4.7 (mm))

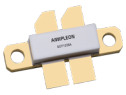
SOT1135A
(20.3 x 9.8 x max. 4.7 (mm))

SOT1135B
(9.8 x 9.8 x max. 4.7 (mm))

SOT1214A
(34.0 x 9.8 x max. 4.7 (mm))

SOT1227A
(14.0 x 4.1 x max. 3.7 (mm))

SOT1227B
(5.1 x 4.1 x max. 3.7 (mm))



SOT1228A
(29.0 x 5.8 x max. 5.2 (mm))

SOT1228B
(17.3 x 5.8 x max. 5.2 (mm))

Overmolded Plastic (OMP) Packages*

OMP-400-8F-1
(10.3 x 10.3 x max. 4.0 (mm))

OMP-780-4F-1
(20.75 x 9.96 x max. 4.0 (mm))

OMP-780-16G-1
(20.75 x 9.96 x max. 4.0 (mm))

OMP-1230-4F-1
(32.43 x 9.96 x max. 4.0 (mm))

OMP-1230-4G-1
(32.43 x 9.96 x max. 4.0 (mm))

SOT1138-2
(20.6 x 10 x max. 3.9 (mm))

* Not drawn to scale

Overmolded Plastic (OMP) Packages* (continued)

SOT1138-3

(20.75 x 9.96 x max. 4.0 (mm))

SOT1204-3

(20.75 x 9.96 x max. 4.0 (mm))

SOT1211-3

(20.75 x 9.96 x max. 4.0 (mm))

SOT1223-2

(20.6 x 10 x max. 3.9 (mm))

SOT1224-2

(20.6 x 10 x max. 3.9 (mm))

SOT1352-1

(6 x 5 x max. 1 (mm))

SOT1371-1

(6 x 4 x max. 1 (mm))

SOT1482-1

(10.67 x 6.1 x max. 2.0 (mm))

SOT1483-1

(10.67 x 6.1 x max. 2.0 (mm))

Air-Cavity Plastic (ACP) Packages*

SOT1250-1

(32.2 x 10.1 x max. 4.5 (mm))

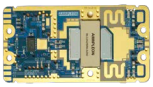
SOT1270-1

(20.6 x 9.8 x max. 3.7 (mm))

Pallets and Modules*

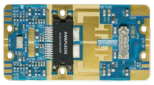
BPF0910H9X600

92 x 60 mm² PCB



BPC2425M9X2S250-1

72 x 34 mm² PCB



BPC2425M7X60

72 x 34 mm² PCB

BPC2425M9X250

52 x 34 mm² PCB

* Not drawn to scale

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