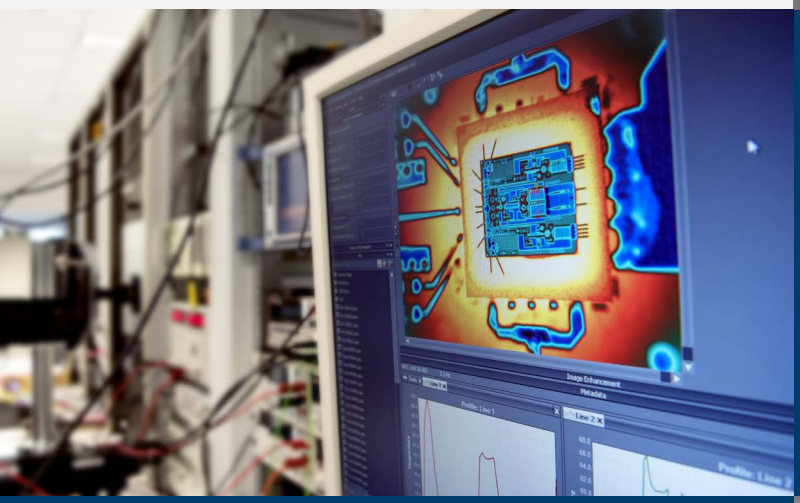
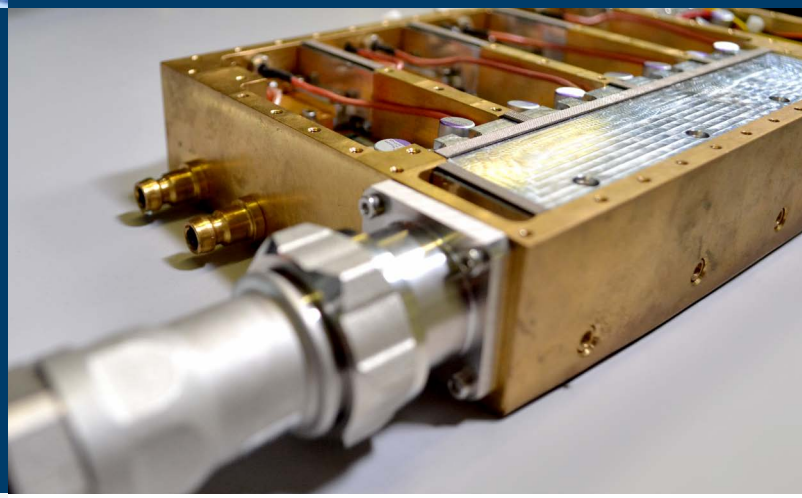
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# Application Catalog



RF power solutions for
**MultiMarket**

September 2026

# Advancing society through RF

Welcome to our catalog, designed to provide you with a comprehensive overview of our extensive range of MultiMarket RF power applications, targeting Navigation and Safety Radio, Broadcast, Industrial, Scientific, and Medical.

Going beyond the ordinary, our dedicated application support service offers a holistic approach, including in-depth package mechanical force simulations to ensure every component is finely tuned to perfection. Delving further, we conduct lifetime and reliability calculations, offering invaluable insights to optimize performance and ensure sustained longevity.

To guarantee robustness, our service encompasses detailed thermal simulations and rigorous Power Cycle Tests, subjecting your designs to real-world conditions. Strengthening our commitment, we employ systematic statistical data gathering, establishing a solid foundation for product consistency and providing actionable insights for continuous improvement.

Highlights of this catalog include:

- **AR211135**: smallest footprint and 90 % efficiency SSPA for 13.56 MHz with ART2K0FE
- **AR241030**: industry-leading CW design for high-power 2.4 GHz ISM applications
- **AR211072**: providing over 1 kW output power at 650 MHz with the BLF978P
- **AR201110**: avionics long-pulse 700 W GaN SSPA design using the CLL3H0914L(S)-700
- **AR191191**: industry's best ultra-wideband UHF-TV design using the BLF989E

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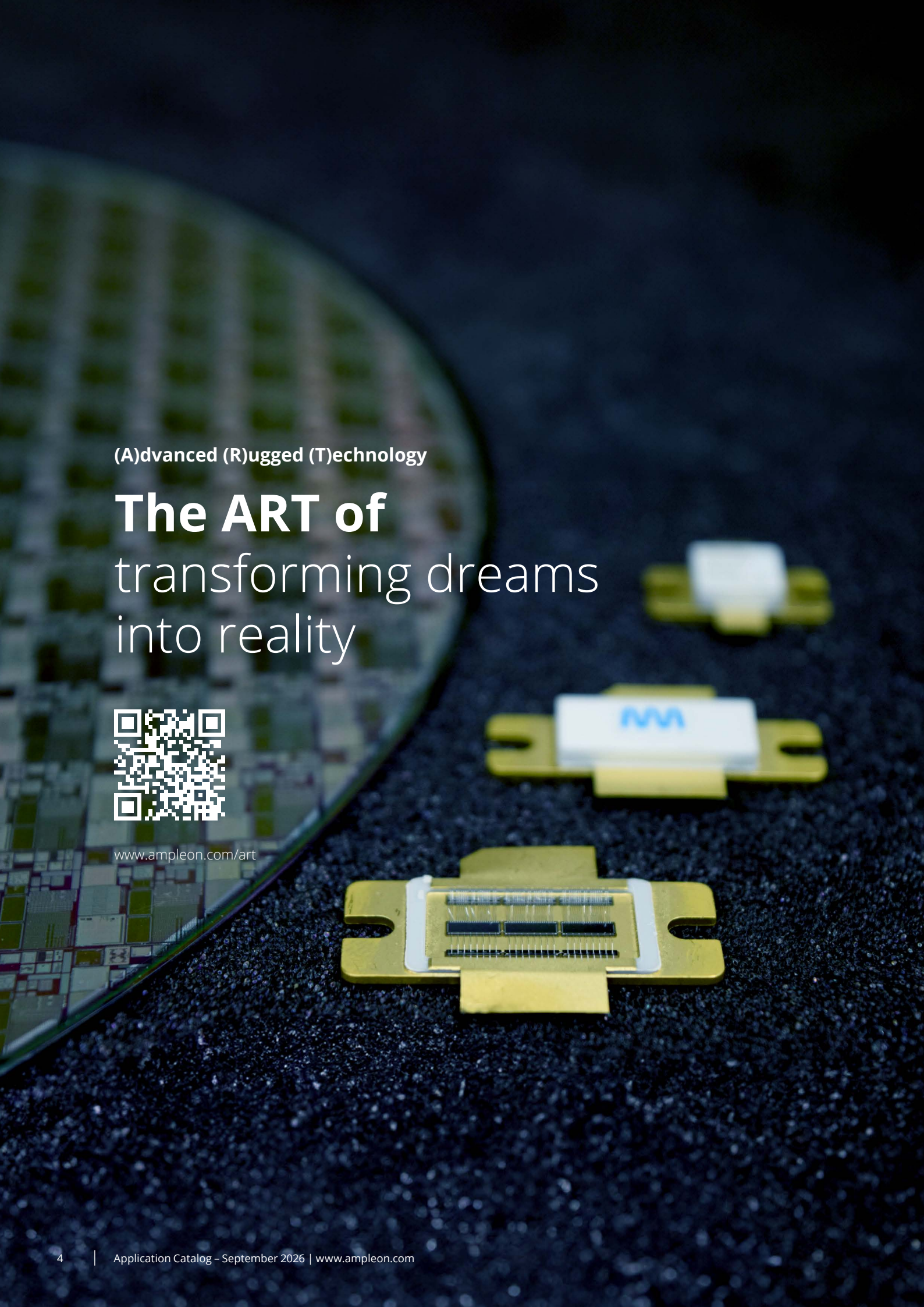
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# Navigation and Safety Radio application reports

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## Radar

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR191123 | BLU9H0408L-800P | LDMOS | 410–460 | | | 850 | 66 | 50 | CW pulsed |
| AR212045 | BLP05H9S500P | LDMOS | 430–450 | | | 500 | 70 | 50 | CW |
| AR212087 | ART2K0FE | LDMOS | 430–435 | | | | 50–55 | 62 | CW pulsed |
| AR212087 | ART2K0FES | LDMOS | 430–435 | | | | 50–55 | 62 | CW pulsed |
| AR232016 | BLP15M9S70 | LDMOS | 950–1200 | 50 | 55 | | 50 | 28 | Pulsed 100 µs 10 % |
| AR171117 | BLA9H0912L-1200P | LDMOS | 960–1215 | | 1000 | | 55 | 50 | CW pulsed |
| AR171117 | BLA9H0912LS-1200P | LDMOS | 960–1215 | | 1000 | | 55 | 50 | CW pulsed |
| AR181082 | BLA9H0912L-1200P | LDMOS | 960–1215 | | 1100 | | 55 | 50 | CW pulsed |
| AR181082 | BLA9H0912LS-1200P | LDMOS | 960–1215 | | 1100 | | 55 | 50 | CW pulsed |
| AR181109 | BLA9H0912L-250 | LDMOS | 960–1215 | | 250 | 300 | 55 | 50 | CW pulsed |
| AR181109 | BLA9H0912LS-250 | LDMOS | 960–1215 | | 250 | 300 | 55 | 50 | CW pulsed |
| AR201110 | CLL3H0914L-700 | GaN | 960–1215 | | > 725 | | > 52 | 50 | CW pulsed 50 µs 10 % |
| AR201110 | CLL3H0914LS-700 | GaN | 960–1215 | | > 725 | | > 52 | 50 | CW pulsed 50 µs 10 % |
| AR202046 | BLP15H9S30 | LDMOS | 1025–1150 | | 30 | 39 | > 50 | 50 | CW pulsed 128 µs 10 % |
| AR181125 | BLA9H0912L-250 | LDMOS | 1030–1090 | | 275 | 340 | 55 | 50 | CW pulsed |
| AR181125 | BLA9H0912LS-250 | LDMOS | 1030–1090 | | 275 | 340 | 55 | 50 | CW pulsed |
| AR161145 | BLA9G1011L-300 | LDMOS | 1030–1090 | | > 300 | | > 63.5 | 32 | CW pulsed 50 µs 2 % |
| AR161145 | BLA9G1011LS-300 | LDMOS | 1030–1090 | | > 300 | | > 63.5 | 32 | CW pulsed 50 µs 2 % |
| AR161145 | BLA9G1011L-300G | LDMOS | 1030–1090 | | > 300 | | > 63.5 | 32 | CW pulsed 50 µs 2 % |
| AR161145 | BLA9G1011LS-300G | LDMOS | 1030–1090 | | > 300 | | > 63.5 | 32 | CW pulsed 50 µs 2 % |

## Radar (continued)

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR181126 | BLA9H0912L-700 | LDMOS | 1030–1090 | | 600 | 750 | 60 | 50 | CW pulsed |
| AR181126 | BLA9H0912LS-700 | LDMOS | 1030–1090 | | 600 | 750 | 60 | 50 | CW pulsed |
| AR191184 | BLP15H9S10 | LDMOS | 1030–1090 | | | 10.9 | 63.5 | 50 | CW pulsed |
| AR171061 | BLL9G1214L-600 | LDMOS | 1200–1400 | | | > 600 | > 57 | 32 | CW pulsed 300 µs 10 % |
| AR171061 | BLL9G1214LS-600 | LDMOS | 1200–1400 | | | > 600 | > 57 | 32 | CW pulsed 300 µs 10 % |
| AR212046 | BLP15H9S30G | LDMOS | 1200–1400 | | 25 | | > 55 | 50 | CW pulsed 100 µs 10 % |
| AR191060 | CLL3H0914L-700 | GaN | 1200–1400 | 700 | | | > 61 | 50 | CW pulsed 100 µs 10 % |
| AR191060 | CLL3H0914LS-700 | GaN | 1200–1400 | 700 | | | > 61 | 50 | CW pulsed 100 µs 10 % |
| AR161098 | BLS9G2729L-350 | LDMOS | 2700–2900 | | 325 | 360 | 49 | 32 | CW pulsed |
| AR161098 | BLS9G2729LS-350 | LDMOS | 2700–2900 | | 325 | 360 | 49 | 32 | CW pulsed |
| AR161075 | BLS9G2731L-400 | LDMOS | 2700–3100 | | 425 | 500 | 46 | 32 | CW pulsed |
| AR161075 | BLS9G2731LS-400 | LDMOS | 2700–3100 | | 425 | 500 | 46 | 32 | CW pulsed |
| AR161065 | BLS9G2735L-50 | LDMOS | 2700–3100 | | 45 | 54 | 50 | 32 | CW pulsed |
| AR211131* | CLS3H2731L-700 | GaN | 2700–3100 | 700 | | | 56–58 | 50 | Pulsed CW |
| AR211131* | CLS3H2731LS-700 | GaN | 2700–3100 | 700 | | | 56–58 | 50 | Pulsed CW |
| AR161048 | BLS9G2934L-400 | LDMOS | 2900–3400 | | 400 | 450 | 46 | 32 | CW pulsed |
| AR161048 | BLS9G2934LS-400 | LDMOS | 2900–3400 | | 400 | 450 | 46 | 32 | CW pulsed |
| AR151004 | BLS9G2735L-50 | LDMOS | 2900–3500 | | 45 | 53 | 47 | 32 | CW pulsed |
| AR231023 | BLS9G2735L-50 | LDMOS | 3000–3100 | | 46 | 54 | 62 | 32 | CW pulsed 50 µs 2 % |
| AR231024 | BLS9G2934L-400 | LDMOS | 3000–3100 | | 420 | 480 | 55 | 32 | CW pulsed 50 µs 2 % |
| AR231024 | BLS9G2934LS-400 | LDMOS | 3000–3100 | | 420 | 480 | 55 | 32 | CW pulsed 50 µs 2 % |
| AR191071 | BLS9G3135L-115 | LDMOS | 3100–3500 | 115 | | | 49 | 32 | CW pulsed 300 µs 10 % |
| AR191071 | BLS9G3135LS-115 | LDMOS | 3100–3500 | 115 | | | 49 | 32 | CW pulsed 300 µs 10 % |
| AR161033 | BLS9G2735LS-50 | LDMOS | 3100–3500 | | 43 | 50 | 48 | 32 | CW pulsed |
| AR161047 | BLS9G3135L-400 | LDMOS | 3100–3500 | | 400 | 475 | 44 | 32 | CW pulsed |
| AR161047 | BLS9G3135LS-400 | LDMOS | 3100–3500 | | 400 | 475 | 44 | 32 | CW pulsed |
| AR251999* | CLS3H3135L-700 | GaN | 3100–3500 | 700 | | | 58 | 50 | Pulsed CW |
| AR251999* | CLS3H3135LS-700 | GaN | 3100–3500 | 700 | | | 58 | 50 | Pulsed CW |

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## Mobile Radio

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR212082 | ART1K6FH | LDMOS | 2–30 | | | 900 | > 60 | 50 | CW, 2-Tone |
| AR212082 | ART1K6FHS | LDMOS | 2–30 | | | 900 | > 60 | 50 | CW 2T |
| AR204002 | ART1K6FH | LDMOS | 2–30 | 350–450 | | | 34–44 | 50 | CW |
| AR204002 | ART1K6FHS | LDMOS | 2–30 | 350–450 | | | 34–44 | 50 | CW |
| AR222005 | BLP15H9S10G | LDMOS | 2–30 | | | > 10 | > 44 | 50 | CW |
| AR201250 | BLF974P | LDMOS | 30–512 | | | 430 | > 55 | 50 | CW pulsed |
| AR174005 | BLP0427M9S20 | LDMOS | 30–512 | | > 18 | > 25 | > 52 | 28 | CW, 2-Tone |
| AR212069 | ART700FH | LDMOS | 30–520 | | | 550 | > 40 | 50 | CW pulsed 50 % |
| AR212069 | ART700FHS | LDMOS | 30–520 | | | 550 | > 40 | 50 | CW pulsed 50 % |
| AR212016 | BLF647P | LDMOS | 30–520 | | | > 100 | > 58 | 28–32 | CW |
| AR212016 | BLF647PS | LDMOS | 30–520 | | | > 100 | > 58 | 28–32 | CW |
| AR192177 | BLF984P | LDMOS | 30–520 | | | 80 | 47–60 | 28 | CW |
| AR192177 | BLF984PS | LDMOS | 30–520 | | | 80 | 47–60 | 28 | CW |
| AR192035 | BLP15M9S30 | LDMOS | 30–520 | | | > 25 | > 50 | 28 | CW |
| AR212058 | BLP15H9S30 x2 | LDMOS | 30–600 | | | > 50 | > 50 | 28 | CW |
| AR212005 | BLP15H9S100 | LDMOS | 30–900 | | | > 75 | > 37 | 50 | CW pulsed 50 % |
| AR212026 | BLP15H9S30 | LDMOS | 30–1000 | | | > 25 | > 35 | 50 | CW |
| AR202075 | ART150FE | LDMOS | 100–140 | | | 127–166 | 61.7–81.5 | 62 | CW pulsed |
| AR212091 | ART2K0FE | LDMOS | 270–310 | | 1500 | | > 56 | 62 | CW pulsed 10 % |
| AR212091 | ART2K0FES | LDMOS | 270–310 | | 1500 | | > 56 | 62 | CW pulsed 10 % |
| AR192182 | BLP15H9S30 | LDMOS | 360–450 | | | | 60.1 | 50 | CW |
| AR192151 | BLP15H9S10 | LDMOS | 380–450 | | | 6–8 | 50–57 | 50 | CW pulsed |
| AR202140 | BLP15M9S100 | LDMOS | 400–470 | 90 | | | > 47 | 32 | 2-Tone |
| AR202051 | BLP15H9S30 | LDMOS | 750–950 | | | 35 | 16.3 | 50 | CW pulsed |
| AR202063 | BLP15H9S10 | LDMOS | 768–870 | | | 10 | 53.1 | 50 | CW pulsed |
| AR202037 | CLF3H0035-100 | GaN | 500–2500 | 90 | | | > 46 | 50 | CW |
| AR202037 | CLF3H0035S-100 | GaN | 500–2500 | 90 | | | > 46 | 50 | CW |

## Non-Cellular Communications

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR231093 | ART450FE | LDMOS | 1.8–54 | 200 | 200 | 275 | 50 | 48 | CW |
| AR222005 | BLP15H9S10G | LDMOS | 2–30 | | | > 10 | > 44 | 50 | CW |
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |

## Non-Cellular Communications (continued)

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR201250 | BLF974P | LDMOS | 30–512 | | | 430 | > 55 | 50 | CW pulsed |
| AR174005 | BLP0427M9S20 | LDMOS | 30–512 | | > 18 | > 25 | > 52 | 28 | CW, 2-Tone |
| AR232026 | BLF944P | LDMOS | 30-520 | 80 | | 85 | >45 | 28 | CW |
| AR212069 | ART700FH | LDMOS | 30–520 | | | 550 | > 40 | 50 | CW pulsed 50 % |
| AR212069 | ART700FHS | LDMOS | 30–520 | | | 550 | > 40 | 50 | CW pulsed 50 % |
| AR212016 | BLF647P | LDMOS | 30–520 | | | > 100 | > 58 | 28–32 | CW |
| AR212016 | BLF647PS | LDMOS | 30–520 | | | > 100 | > 58 | 28–32 | CW |
| AR192177 | BLF984P | LDMOS | 30–520 | | | 80 | 47–60 | 28 | CW |
| AR192177 | BLF984PS | LDMOS | 30–520 | | | 80 | 47–60 | 28 | CW |
| AR192035 | BLP15M9S30 | LDMOS | 30–520 | | | > 25 | > 50 | 28 | CW |
| AR212058 | BLP15H9S30 x2 | LDMOS | 30–600 | | | > 50 | > 50 | 28 | CW |
| AR212005 | BLP15H9S100 | LDMOS | 30–900 | | | > 75 | > 37 | 50 | CW pulsed 50 % |
| AR212026 | BLP15H9S30 | LDMOS | 30–1000 | | | > 25 | > 35 | 50 | CW |
| AR202075 | ART150FE | LDMOS | 100–140 | | | 127–166 | 61.7–81.5 | 62 | CW pulsed |
| AR262021 | ART450FE | LDMOS | 108–420 | | 218 | 331 | 57 @ $P_{3dB}$ | 48 | CW pulsed |
| AR201074 | BLP5LA55S | LDMOS | 150–170 | 55 | 60 | 72 | 74 | 14.4 | CW |
| AR191179 | BLP9LA25S | LDMOS | 225–400 | | 13.1 | | 48 | 13.6 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR192182 | BLP15H9S30 | LDMOS | 360–450 | | | | 60.1 | 50 | CW |
| AR192143 | BLP15H9S100 | LDMOS | 360–450 | | > 100 | | 50 | 50 | CW, CW pulsed |
| AR192151 | BLP15H9S10 | LDMOS | 380–450 | | | 6–8 | 50–57 | 50 | CW pulsed |
| AR191172 | BLP5LA55S | LDMOS | 380–450 | | | 53 | 62 | 13.6 | CW |
| AR191042 | BLP9LA25S | LDMOS | 380–460 | 31 | | | > 56 | 13.6 | CW |
| AR202140 | BLP15M9S100 | LDMOS | 400–470 | 90 | | | > 47 | 32 | 2T |
| AR201054 | BLP9LA25SG | LDMOS | 740–800 | | | 28.2 | 55 | 13.6 | CW |
| AR202051 | BLP15H9S30 | LDMOS | 750–950 | | | 35 | 16.3 | 50 | CW pulsed |
| AR202063 | BLP15H9S10 | LDMOS | 768–870 | | | 10 | 53.1 | 50 | CW pulsed |
| AR191173 | BLP9LA25S | LDMOS | 800–870 | | 24.2 | 29 | 64.7 | 13.6 | CW |
| AR191005 | BLP0427M9S20G | LDMOS | 1450–1550 | | > 21.8 | > 28.5 | > 53 | 28 | CW, CW pulsed |
| AR221078 | BLP0427M9S20G | LDMOS | 1600–1700 | 30 | 26.3 | 32.4 | 53.7 | 28 | CW |
| AR202003 | BLP15H9S100 | LDMOS | 1700–1850 | | | 100 | 47.6–53.7 | 50 | CW pulsed |
| AR241028 | BLF20M10LS200P | LDMOS | 1975–2025 | 200 | 200 | 222 | 69 | 32 | CW |

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# Broadcast application reports

The RF power transistor selection guide is available on: www.ampleon.com/applications. Its easy-to-use-parametric filters help you choose the right RF power transistor for your design.

## UHF / D-TV

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR194004 | BLF989 | LDMOS | 470–494 | 200 | | 950 | 51–56 | 50 | DVB-T |
| AR194004 | BLF989S | LDMOS | 470–494 | 200 | | 950 | 51–56 | 50 | DVB–T |
| BLF989 Doherty | BLF989 | LDMOS | 470–500 | 300 | | | 50 | 50 | DVB-T |
| BLF989 Doherty | BLF989S | LDMOS | 470–500 | 300 | | | 50 | 50 | DVB–T |
| AR181056 | BLF989 | LDMOS | 470–700 | 150 | | > 850 | > 32 | 50 | DVB-T |
| AR181056 | BLF989S | LDMOS | 470–700 | 150 | | > 850 | > 32 | 50 | DVB–T |
| AR191191 | BLF989E | LDMOS | 470–700 | 180 | | 1000 | 46 | 50 | DVB-T |
| AR191191 | BLF989ES | LDMOS | 470–700 | 180 | | 1000 | 46 | 50 | DVB–T |
| AR204007 | BLP15H9S100 | LDMOS | 470–700 | 20 | | 110 | 30 | 50 | CW pulsed, DVB-T |
| AR192124 | BLF989 | LDMOS | 470–710 | 180 | | | > 30 | 50 | DVB-T |
| AR192124 | BLF989S | LDMOS | 470–710 | 180 | | | > 30 | 50 | DVB–T |
| AR182059 | BLF989 | LDMOS | 474–714 | 150 | | | 33 | 50 | DVB-T |
| AR182059 | BLF989S | LDMOS | 474–714 | 150 | | | 33 | 50 | DVB–T |
| AR191150 | BLP0408H9S30 | LDMOS | 470–860 | 6 | | > 35 | > 25 | 50 | DVB-T |
| AR241036 | BLF989E | LDMOS | 700–860 | 180 | | | 48–52 | 50 | DVB–T |

## FM / HDR / DAB Radio

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR201210 | ART35FE | LDMOS | 81–108 | 29.4 | | 38.9 | 74.6 | 65 | CW |
| AR201042 | ART2K0PE | LDMOS | 88–108 | | | 1604–1616 | 86.9–83.8 | 60 | CW |
| AR201070 | ART2K0FE | LDMOS | 88–108 | | | 1742 | 84.6–81.7 | 60 | CW |
| AR201070 | ART2K0FES | LDMOS | 88–108 | | | 1742 | 84.6–81.7 | 60 | CW |
| AR184005 | BLP0427M9S20 | LDMOS | 88–108 | | > 29 | > 37 | > 62 | 32 | CW |
| AR254001 | BLF981 | LDMOS | 88–108 | 150 | | | 75 | 48 | CW |
| AR254001 | BLF981S | LDMOS | 88–108 | 150 | | | 75 | 48 | CW |
| AR254001 | BLP981 | LDMOS | 88–108 | 150 | | | 75 | 48 | CW |
| AR212139 | ART700FHG | LDMOS | 88–108 | | | 712 | 80.8 | 50 | CW |
| AR211050 | ART1K6FH | LDMOS | 88–108 | | | 1239 / 1375 / 1316 | 84.3–82.7 | 48 | CW |

## FM / HDR / DAB Radio (continued)

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR211050 | ART1K6FHS | LDMOS | 88–108 | | | 1239 / 1375 / 1316 | 84.3–82.7 | 48 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |

## VHF / D-TV

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR201249 | ART2K0FE | LDMOS | 165–235 | 1100 | | | 43 | 50 | DVB-T |
| AR201249 | ART2K0FES | LDMOS | 165–235 | 1100 | | | 43 | 50 | DVB–T |
| AR211097 | ART1K6FH | LDMOS | 170-240 | 250 | | | 47 | 50 | DVB-T |
| AR201097 | ART1K6FHS | LDMOS | 170-240 | 250 | | | 47 | 50 | DVB-T |
| AR201097 | ART2K0FE | LDMOS | 170–240 | 1400 | | | 47 | 63 | DVB-T |
| AR201097 | ART2K0FES | LDMOS | 170–240 | 1400 | | | 47 | 63 | DVB–T |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |

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# Industrial, Scientific and Medical application reports

The RF power transistor selection guide is available on: www.ampleon.com/applications. Its easy-to-use-parametric filters help you choose the right RF power transistor for your design.

## CO2 Lasers & Plasma

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR221063 | ART2K0FE | LDMOS | 2 | 1300 | | | 82 | 56 | CW, PL = $P_{-5dB}$ |
| AR221063 | ART2K0FES | LDMOS | 2 | 1300 | | | 82 | 56 | CW, PL = $P_{-5dB}$ |
| AR201212 | ART35FE | LDMOS | 10–54 | | 37.2 | | 75 | 65 | CW |
| AR231100 | ART35FE | LDMOS | 13 | | | 43 | 78.4 | 65 | CW |
| AR211135* | ART2K0FE | LDMOS | 13 | | | 1600 | 76.5 | 60 | CW |
| AR211135* | ART2K0FES | LDMOS | 13 | | | 1600 | 76.5 | 60 | CW |
| AR211135* | ART2K0FE | LDMOS | 13 | | | 1000 | 89 | 60 | CW |
| AR211135* | ART2K0FES | LDMOS | 13 | | | 1000 | 89 | 60 | CW |
| AR201096 | ART2K0PE | LDMOS | 13 | 1078 | | | 89 | 55 | CW |
| AR201008 | ART2K0FE | LDMOS | 13–41 | | | 1050 | 53–59 | 65 | CW |
| AR201008 | ART2K0FES | LDMOS | 13–41 | | | 1050 | 53–59 | 65 | CW |
| AR241126* | ART2K0FE | LDMOS | 27 | 1350 | | | 85 | 65 | CW, PL=$P_{-6dB}$ |
| AR241126* | ART2K0FE | LDMOS | 27 | 1800 | | | 80 | 65 | CW, PL=$P_{-6dB}$ |
| AR201096 | ART2K0PE | LDMOS | 27 | 1204 | | | 79 | 50 | CW |
| AR222014 | ART700FH | LDMOS | 27 | | | 730 | 70 | 50 | CW |
| AR222014 | ART700FHS | LDMOS | 27 | | | 730 | 70 | 50 | CW |
| AR201096 | ART2K0PE | LDMOS | 41 | 1323 | | | 80.5 | 50 | CW |
| AR201105 | ART2K0PE | LDMOS | 41 | 1762 | | | 81.6 | 65 | CW |
| AR231058 | ART450FE | LDMOS | 41 | | | 315 | 74.8 | 50 | CW |
| AR231058 | ART450FE | LDMOS | 41 | | | 500 | 72.2 | 65 | CW |
| AR201104 | ART2K0FE | LDMOS | 41 | 1600 | | | 79 | 65 | CW |

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## CO2 Lasers & Plasma (continued)

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR201104 | ART2K0FES | LDMOS | 41 | 1600 | | | 79 | 65 | CW |
| AR201243 | ART2K0FE | LDMOS | 41 | 900 | | | 89 | 50 | CW |
| AR201243 | ART2K0FES | LDMOS | 41 | 900 | | | 89 | 50 | CW |
| AR194008 | ART2K0FE | LDMOS | 60 | | 1027 / 1591 | 1893 / 2047 | 83 / 86 | 65 | CW, CW pulsed |
| AR194008 | ART2K0FES | LDMOS | 60 | | 1027 / 1591 | 1893 / 2047 | 83 / 86 | 65 | CW, CW pulsed |
| AR231062 | ART800PE | LDMOS | 60 | | 680 | | 75 | 55 | CW pulsed |
| AR201213 | ART35FE | LDMOS | 60–130 | | 38.9 | | 79.1 | 65 | CW |
| AR212099 | ART1K6FH | LDMOS | 81 | | | 1500 | 81 | 50 | CW |
| AR212099 | ART1K6FHS | LDMOS | 81 | | | 1500 | 81 | 50 | CW |
| AR211018 | ART2K0FE | LDMOS | 81 | | | 1750 | 80 | 65 | CW |
| AR211018 | ART2K0FES | LDMOS | 81 | | | 1750 | 80 | 65 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR241028 | BLF20M10LS200P | LDMOS | 1975–2025 | 200 | 200 | 222 | 69 | 32 | CW |
| AR201195 | BLM2425M9S20 | LDMOS | 2400–2500 | | 22.5 | | 47.2 | 32 | CW |
| AR201017 | BLC2425M10LS250 | LDMOS | 2400–2500 | | | 280 | 68.5 | 32 | CW |
| AR191199 | BLC2425M10LS500P | LDMOS | 2400–2500 | | | 544 | 68 | 32 | CW |
| AR231088 | CLP24H4S30P | GaN | 2400–2500 | 30 | | | 75 | 50 | CW |
| AR241030 | CLP24H4S30P | GaN | 2400–2500 | 350 | | | 66 | 50 | CW |
| AR231128 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 75 | 50 | CW |
| AR241030 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 70 | 50 | CW |

## Healthcare / MRI

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR201213 | ART35FE | LDMOS | 60–130 | | 38.9 | | 79.1 | 65 | CW |
| AR211049 | ART150FE | LDMOS | 64 | 147.9 | | | 78.8 | 65 | CW |
| AR201106* | ART2K0FE | LDMOS | 64 | | | 1740 | 78 | 63 | CW pulsed |
| AR201106* | ART2K0FES | LDMOS | 64 | | | 1740 | 78 | 63 | CW pulsed |
| AR211142* | ART2K0PE | LDMOS | 120–130 | | | 2380 | 78 | 65 | CW pulsed |
| AR211142* | ART2K0FE | LDMOS | 120–132 | | 2100 | | 75 | 65 | CW pulsed |

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## Healthcare / MRI (continued)

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR211142* | ART2K0FES | LDMOS | 120–132 | | 2100 | | 75 | 65 | CW pulsed |
| AR192069 | ART2K0FE | LDMOS | 123–133 | | | 1900 | 63–67 | 62 | CW pulsed |
| AR192069 | ART2K0FES | LDMOS | 123–133 | | | 1900 | 63–67 | 62 | CW pulsed |
| AR211048 | ART150FE | LDMOS | 128 | 148.8 | | | 81.9 | 65 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR231088 | CLP24H4S30P | GaN | 2400–2500 | 30 | | | 75 | 50 | CW |
| AR241030 | CLP24H4S30P | GaN | 2400–2500 | 350 | | | 66 | 50 | CW |
| AR231128 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 75 | 50 | CW |
| AR241030 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 70 | 50 | CW |

## Particle Accelerators

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR201090 | BLF974P | LDMOS | 225 | | 587 | 633 | 82 | 50 | CW |
| AR191188 | BLF974P | LDMOS | 230–236 | | | 650 | 76.7 | 50 | CW |
| AR201176 | BLP15H9S100G | LDMOS | 325–352 | | | 90 | 61 | 50 | CW |
| AR201203 | ART2K0PE | LDMOS | 352 | | | 1600 | 74 | 65 | CW |
| AR221011 | BLF978P | LDMOS | 352 | | | 1448 | 78.3 | 50 | CW |
| AR201138 | ART2K0FE | LDMOS | 352 | | | 1500 | 74 | 65 | CW |
| AR201138 | ART2K0FES | LDMOS | 352 | | | 1500 | 74 | 65 | CW |
| AR201165 | BLF978P | LDMOS | 352 | | 1166 | 1294 | 77.4 | 50 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR201178 | BLP15H9S10G | LDMOS | 325–352 | | | 10 | 71 | 50 | CW |
| AR211056 | BLF978P | LDMOS | 500 | | 812 | 951 | 70.4 | 50 | CW |
| AR202059 | BLF978P | LDMOS | 500 | | > 1000 | | 70 | 45 | CW |
| AR211072 | BLF978P | LDMOS | 650 | | 1150 | | 70 | 50 | CW |
| AR261036* | CLF09H4LS800P | GaN | 902–928 | | 655 | 804 | 79.6 | 50 | CW |
| AR181152 | BLF13H9L750P | LDMOS | 1300 | | 700 | | 60 | 50 | CW, CW pulsed |
| AR181152 | BLF13H9LS750P | LDMOS | 1300 | | 700 | | 60 | 50 | CW, CW pulsed |

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## Industrial Heating

| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR211147 | ART150PEG | LDMOS | 6.78 | 150 | | | 86.3 | 63 | CW |
| AR201212 | ART35FE | LDMOS | 10–54 | | 37.2 | | 75 | 65 | CW |
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR201104 | ART2K0FE | LDMOS | 41 | 1600 | | | 79 | 50 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR201104 | ART2K0FES | LDMOS | 41 | 1600 | | | 79 | 50 | CW |
| AR191206 | BLF0910H9LS750P | LDMOS | 902–928 | | | > 875 | 70.8 | 50 | CW |
| AR191162 | BLP0427M9S20 | LDMOS | 902–928 | | > 23 | > 27 | > 75 | 32 | CW |
| AR182075 | BLF0910H9LS600 | LDMOS | 902–928 | | | > 600 | > 65 | 50 | CW |
| AR261036* | CLF09H4LS800P | GaN | 902–928 | | 655 | 804 | 79.6 | 50 | CW |
| AR204006 | BLP15M9S30 | LDMOS | 915 | | | 35 | 78 | 28 | CW |
| AR191086 | BLF0910H9LS750P | LDMOS | 915 | | | 756 | 72.7 | 50 | CW |
| AR201195 | BLM2425M9S20 | LDMOS | 2400–2500 | | 22.5 | | 47.2 | 32 | CW |
| AR201017 | BLC2425M10LS250 | LDMOS | 2400–2500 | | | 280 | 68.5 | 32 | CW |
| AR201045 | BLP2425M10S250P | LDMOS | 2400–2500 | | 275 | 300 | > 65 | 32 | CW |
| AR191199 | BLC2425M10LS500P | LDMOS | 2400–2500 | | | 544 | 68 | 32 | CW |
| AR231088 | CLP24H4S30P | GaN | 2400–2500 | 30 | | | 75 | 50 | CW |
| AR241030 | CLP24H4S30P | GaN | 2400–2500 | 350 | | | 66 | 50 | CW |
| AR231128 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 75 | 50 | CW |
| AR241030 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 70 | 50 | CW |

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## Cooking and Defrosting

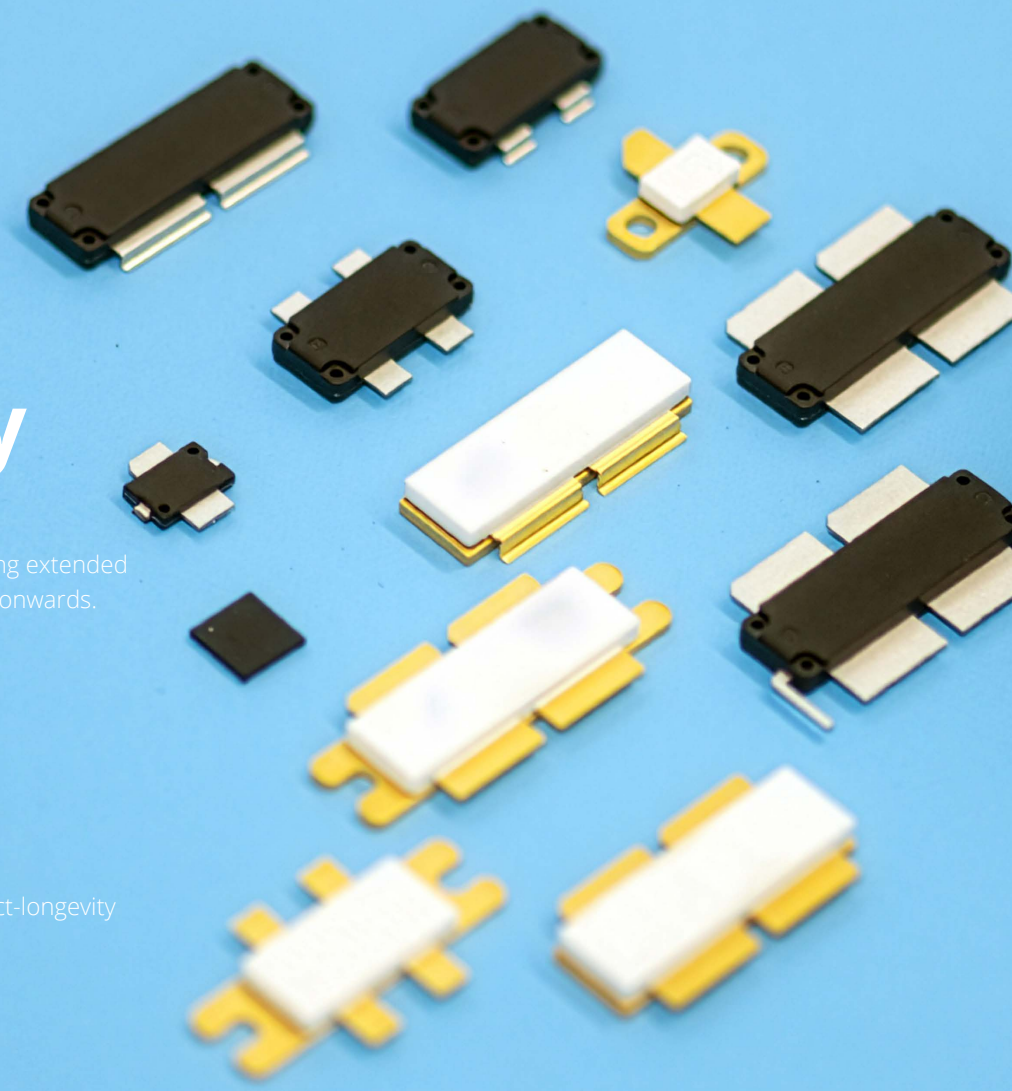
| Report number | Type number | Technology | $F_{range}$ (MHz) | $P_{out}$ (W) | $P_{1dB}$ (W) | $P_{3dB}$ (W) | $\eta_D$ (%) | $V_{DS}$ (V) | Demo signal |
|---|---|---|---|---|---|---|---|---|---|
| AR211103 | ART150PEG | LDMOS | 40 | 134 | | | 86 | 55 | CW |
| AR211125 | ART150PEG | LDMOS | 40 | 150 | | | 86 | 56 | CW |
| AR261105* | ART500PE1 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR261105* | ART500PE2 | LDMOS | 41 | 330 | 190 | 332.33 | 80 | 50 | CW |
| AR201212 | ART35FE | LDMOS | 10–54 | | 37.2 | | 75 | 65 | CW |
| AR201041 | ART1K6PH | LDMOS | 325 | 1520 | | | 73.6 | 53 | CW pulsed |
| AR201204 | ART1K6PH | LDMOS | 352 | 1350 | | | 74 | 50 | CW |
| AR201207 | BLP05H9S500P | LDMOS | 433 | | 515 | | 75.1 | 50 | CW |
| AR191162 | BLP0427M9S20 | LDMOS | 902–928 | | > 23 | > 27 | > 75 | 32 | CW |
| AR182075 | BLF0910H9LS600 | LDMOS | 902–928 | | | > 600 | > 65 | 50 | CW |
| AR261036* | CLF09H4LS800P | GaN | 902–928 | | 655 | 804 | 79.6 | 50 | CW |
| AR204006 | BLP15M9S30 | LDMOS | 915 | | | 35 | 78 | 28 | CW |
| AR201195 | BLM2425M9S20 | LDMOS | 2400–2500 | | 22.5 | | 47.2 | 32 | CW |
| AR201045 | BLP2425M10S250P | LDMOS | 2400–2500 | | 275 | 300 | > 65 | 32 | CW |
| AR231088 | CLP24H4S30P | GaN | 2400–2500 | 30 | | | 75 | 50 | CW |
| AR241030 | CLP24H4S30P | GaN | 2400–2500 | 350 | | | 66 | 50 | CW |
| AR231128 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 75 | 50 | CW |
| AR241030 | CLF24H4LS300P | GaN | 2400–2500 | | | 350 | 70 | 50 | CW |

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Date of release: September 2026

Document identifier: AMP ACMM 2026 **0925**

Printed in the Netherlands