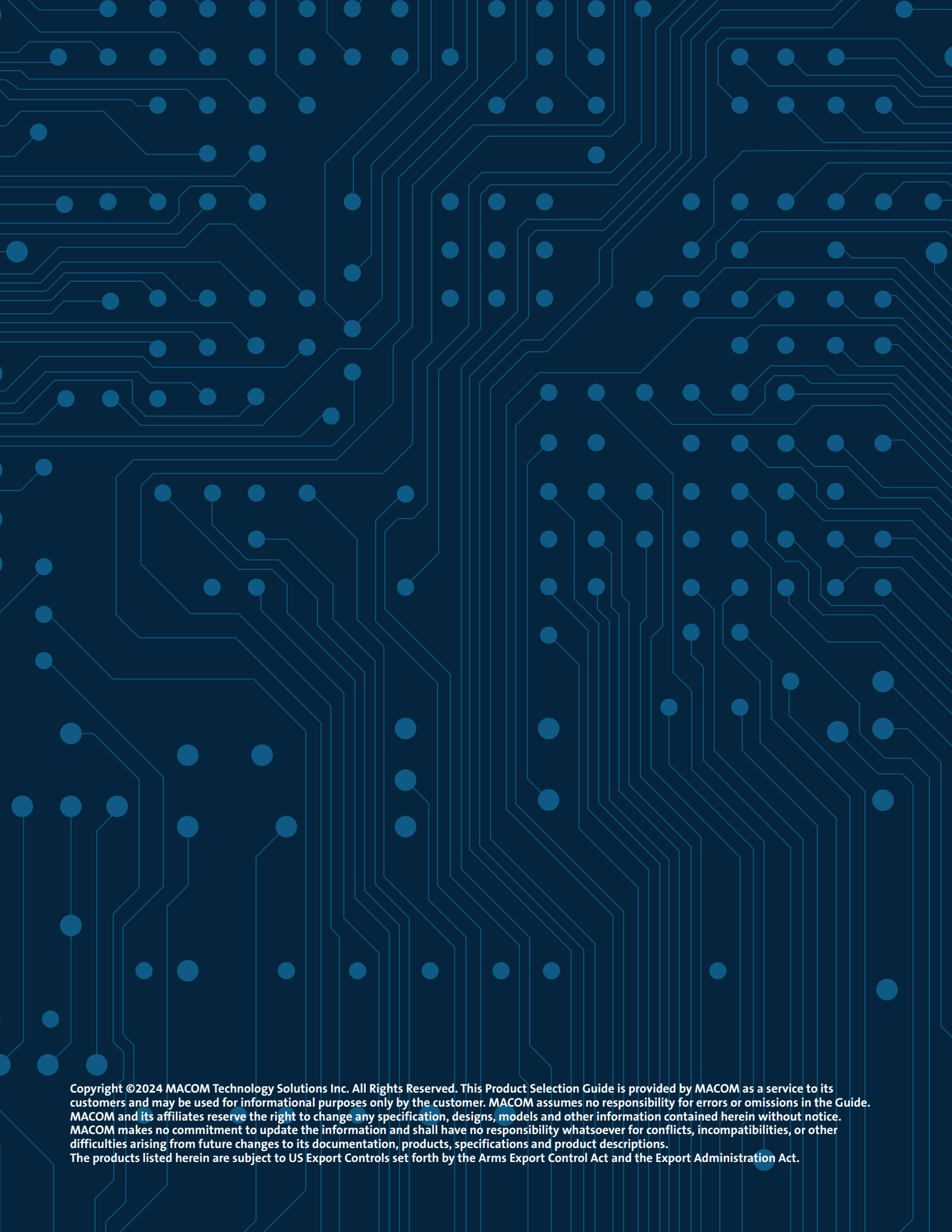


High Power GaN-on-SiC MMIC Overview

MMIC Portfolio

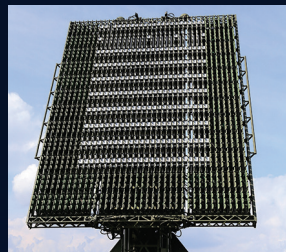


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Applications and Features



Radar



Electronic Warfare



Military Communications



Satellite Communications



Test & Measurement

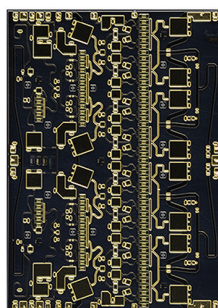


Industrial, Scientific, Medical

The Products We Design and Build Together Will Help Shape the Future of Tomorrow's RF Applications

PORTFOLIO FEATURES

- Fully-matched, Monolithic, Multiple Stages
- 20 MHz to 37 GHz Operation
- 1 to 250 W Peak Power
- Compact and High Efficiency
- Packaging Capability up to 40 GHz



Platforms and Support

Multiple Platforms

MMICs

- > Small Form Factor
- > Variety of Power Levels
- > High Efficiency
- > Multiple Gain Stages
- > DC through Ka-Band

FEMs (FRONT END MODULES)

- > Multi-chip, Multi-technology
- > Transmit/Receive Modules
- > Increased Integration Enabling Reduced System Footprint and Complexity

MARKET SUPPORT

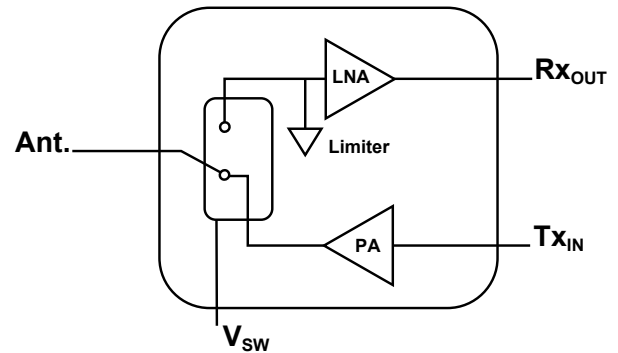
- > Radar, Communications, EW, ISM, Avionics, T&M

FREQUENCY COVERAGE

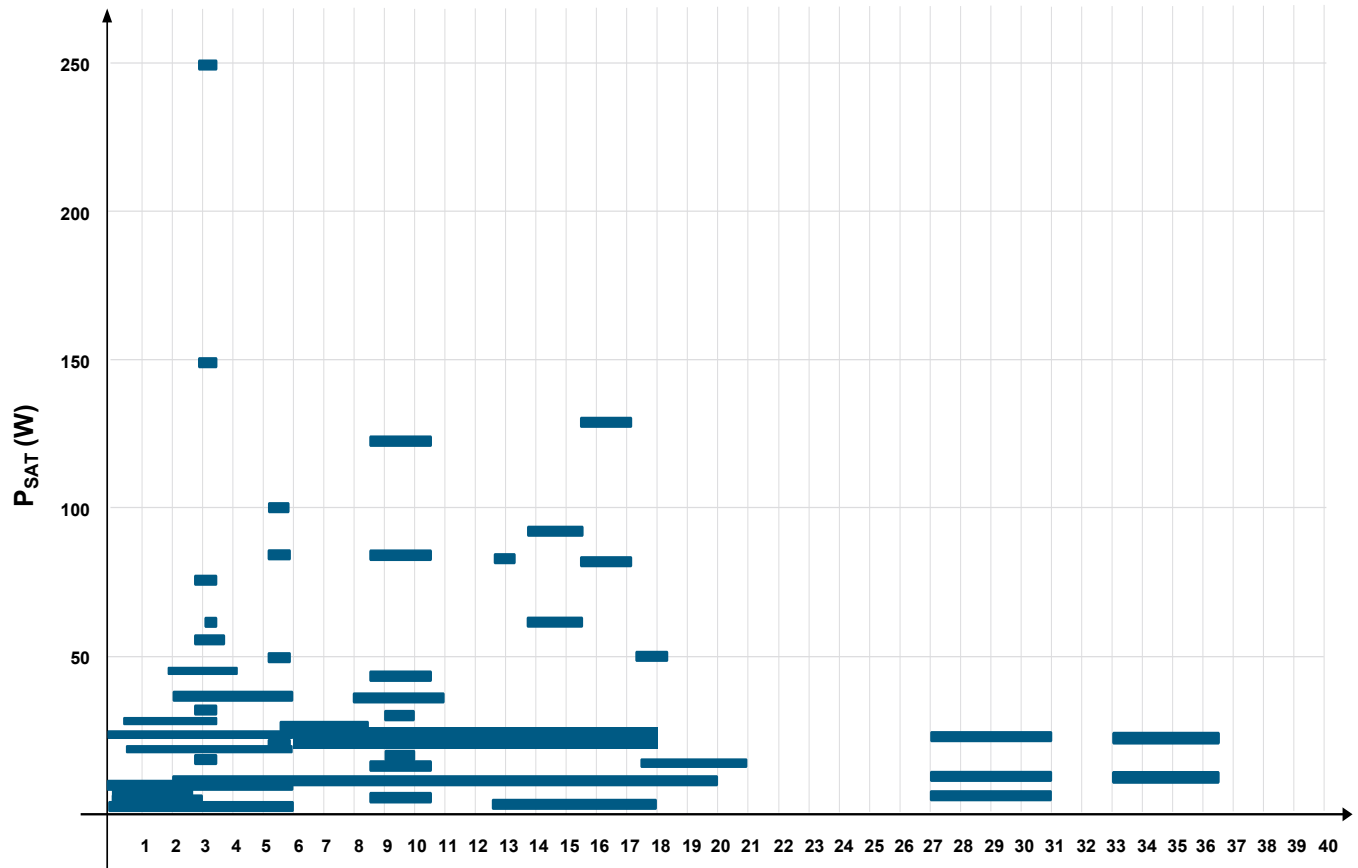
- > DC to Ka-Band

SUPPORT

- > Evaluation Boards, Application Notes, Application Engineering



GaN-on-SiC MMIC SOLUTION SPACE



Wideband (DC to 18 GHz)

MMIC Product Number	Min Frequency (GHz)	Max Frequency (GHz)	P _{SAT} (W)	PAE (%)	LSG (dB)	V _D (V)	Available Platforms*
CMPA0060002F1	DC	6	4	25	10	28	D, F, F1
CMPA0060025F1	DC	6	25	28	11	50	D, F, F1
CMPA0527005F	0.5	2.7	8	47	15	50	F
CMPA0530002S	0.5	3	2	52	13	28	D, S
CMPA0560008S	0.5	6	10	40	12	28	D, S
CMPA0760020F	0.7	6	25	36	33	28	D, F
CMPA1842040F	1.8	4.2	45	45	24	28	D, F
CMPA2060035F1	2	6	35	40	24	28	D, F, F1
CMPA2560025F	2.5	6	30	30	20	28	D, F
CMPA601C025F	6	12	40	32	25	28	D, F
CMPA601J025F	6	18	25	20	20	22	D, F

*Available Platforms: D = DIE, F/F1 = Flange and S = QFN

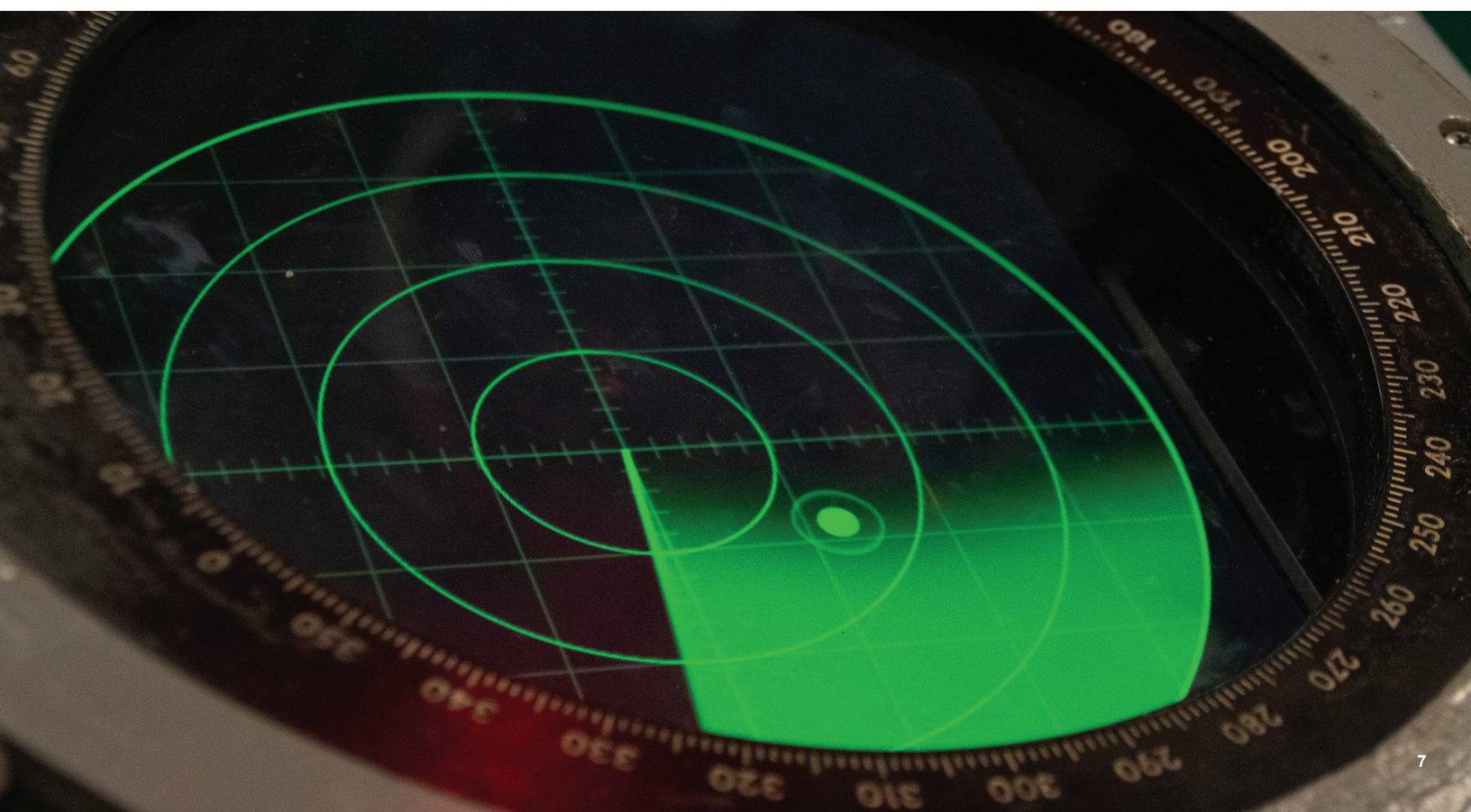
Note: Above Performance is Under Continuous Wave (CW) Operation.



S-Band (2.7 to 3.8 GHz)

MMIC Product Number	Min Frequency (GHz)	Max Frequency (GHz)	P _{SAT} (W)	PAE (%)	LSG (dB)	V _D (V)	Available Platforms*
CMPA2735015S	2.7	3.5	15	50	27.5	50	D, S
CMPA2735030S	2.7	3.5	30	45	28	50	D, S
CMPA2735075F1	2.7	3.5	75	57	20	28	D, F, F1
CMPA2738060F	2.7	3.8	60	54	27	50	D, F
CMPA2935150S	2.9	3.5	190	55	25	50	S
CMPA2935250S	3.1	3.7	250	55	24	50	S
CMPA3135060S	3.1	3.5	60	55	29	50	D, S

*Available Platforms: D = DIE, S = QFN and F/F1 = Flange



C-Band (5.2 to 8.58 GHz)

MMIC Product Number	Min Frequency (GHz)	Max Frequency (GHz)	P _{SAT} (W)	PAE (%)	LSG (dB)	V _D (V)	Available Platforms*
CMPA5259025S	5.2	5.9	25	54	25	28	D, F, S
CMPA5259050S	5.2	5.9	50	53	23	28	D, F, S
CMPA5259080S	5.2	5.9	80	44	22	40	D, S
CMPA5259100S	5.2	5.9	100	57	25	50	D, S
CMPA5585030F	5.5	8.58	30	30	21	28	D, F

*Available Platforms: D = DIE, F = Flange and S = QFN



X-Band (8 to 12 GHz)

MMIC Product Number	Min Frequency (GHz)	Max Frequency (GHz)	P _{SAT} (W)	PAE (%)	LSG (dB)	V _D (V)	Available Platforms*
CMPA801B030S	7.9	11	40	40	20	28	D1, F1, S
CMPA851A005S	8.5	10.5	4.5	45	31	28	D, S
CMPA851A012S	8.5	10.5	20	48	29	28	D, S
CMPA851A025S	8.5	10.5	40	43	29.5	28	D, S
CMPA851A050S	8.5	10.5	80	40	29	28	D, F, S
CMPA901A020S	9	10	20	50	30	28	D, S
CMPA901A035F1	9	10	35	35	23	28	D, F, F1
CMPA9396025S	9.3	9.6	35	41	27	40	D, S

FEM Product Number	Min Frequency (GHz)	Max Frequency (GHz)	T _X P _{SAT} (W)	T _X LSG (dB)	R _X Gain (dB)	R _X NF (dB)	Available Platforms*
WSM5100S	8.5	10.5	10	27	17	2.5	S

*Available Platforms: D = DIE, F/F1 = Flange and S = QFN

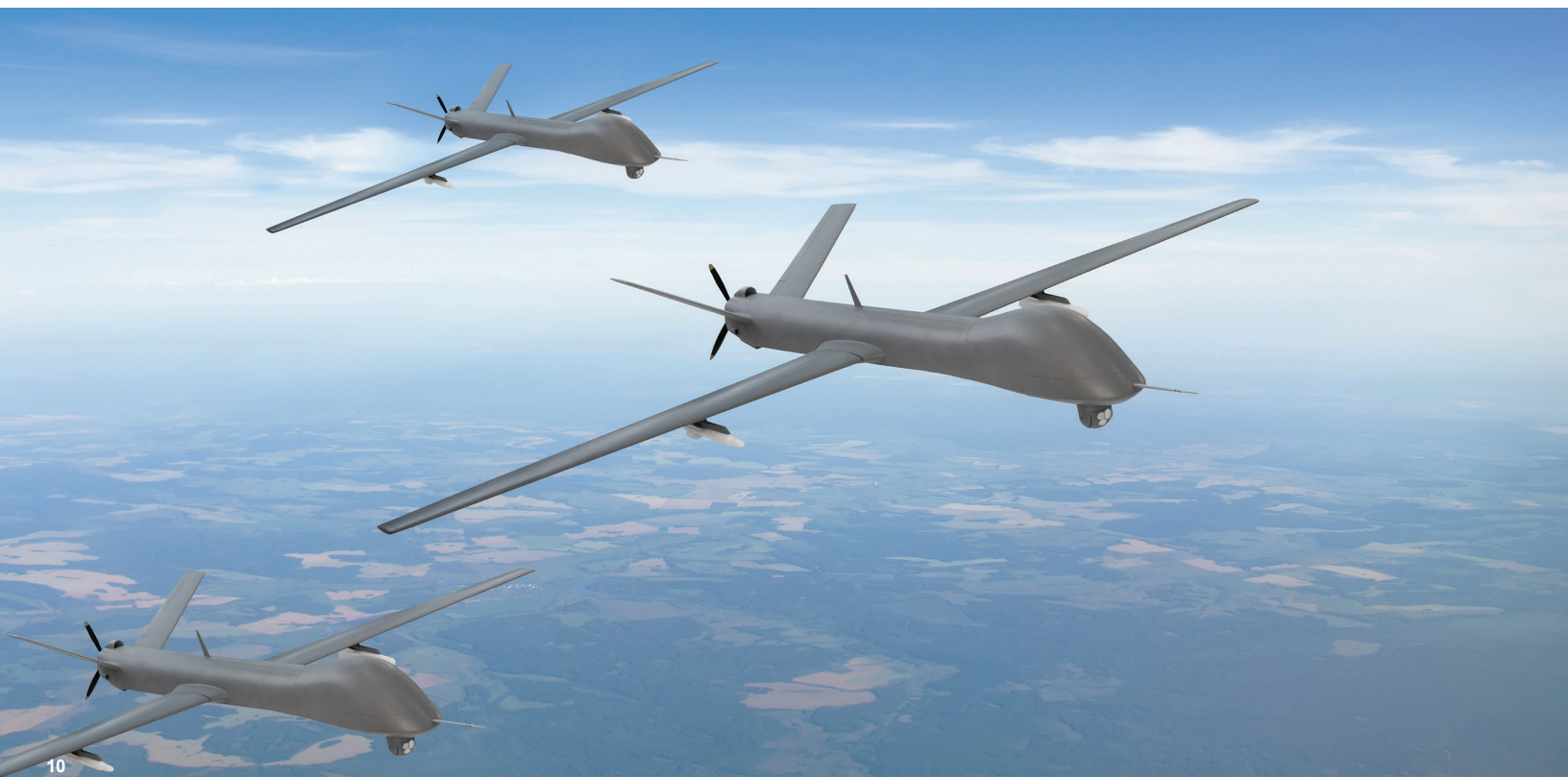


Ku- to K-Band (12 to 21 GHz)

MMIC Product Number	Min Frequency (GHz)	Max Frequency (GHz)	P _{SAT} (W)	PAE (%)	LSG (dB)	V _D (V)	Available Platforms*
CMPA1C1D080F	12.75	13.25	90	21	17	40	F
CMPA1D1J001S	12.75	18	1	30	23	28	D, S
CMPA1D1E025F	13.75	14.5	25	16	20	40	F
CMPA1E1F060F	13.4	15.5	60**	38	26	28	D, F, T
CMPA1F1H060S	15.4	17.7	80	35	25	28	D, F, S
CMPA1H1J050F	17.3	18.4	60	30	25	28	F

*Available Platforms: F = Flange, D = DIE, S = QFN and T = DIE-on-Tap

**Linear Performance (IM3 < -25 dBc) Targeting 3 – 4 dB Output Backoff (OBO) from Above P_{SAT} Levels.



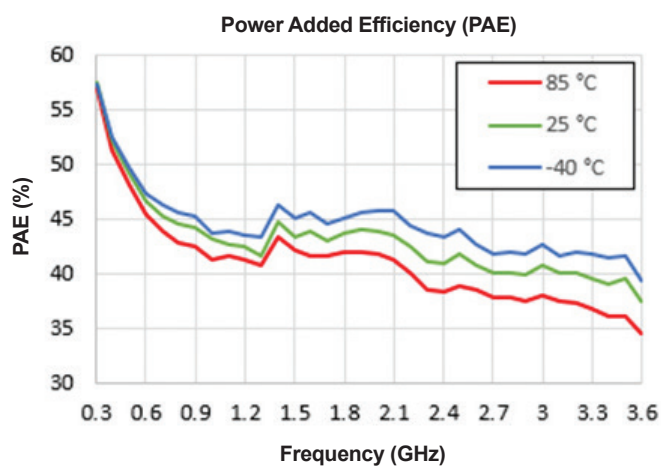
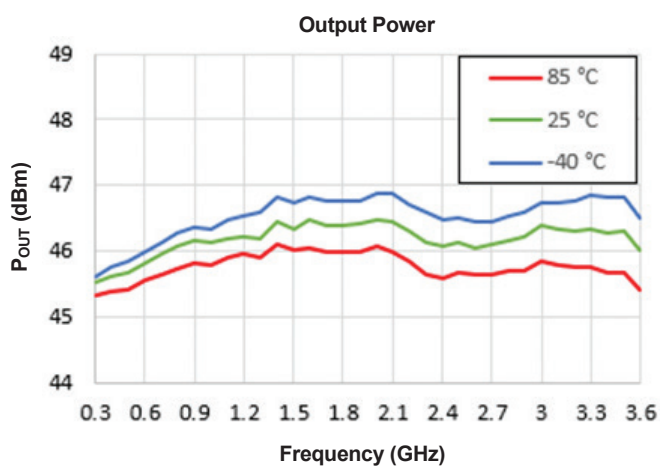


PRODUCT **Overviews**

CMPA0335030F

0.3 to 3.5 GHz, 35 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: .3 to 3.5 GHz P_{SAT}: 35 W PAE: 40% LSG: 14 dB Bias: 50 V, 500 mA CW Operation	> Best-in-Class Gain and Efficiency for Given Broadband Power Level > Flange Package for Superior Thermal Management	> EW > Radar > Communications > T&M

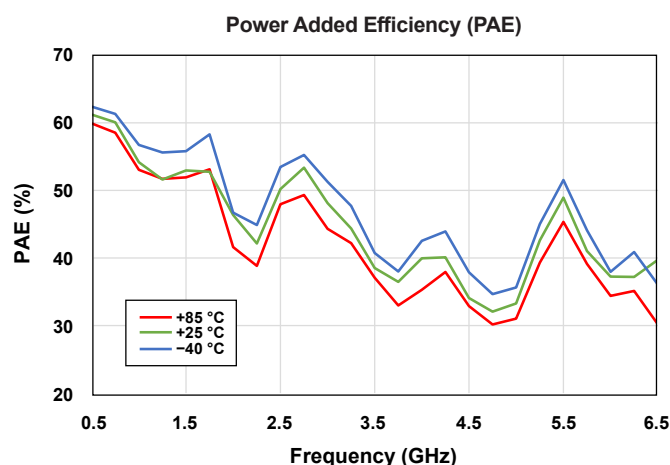
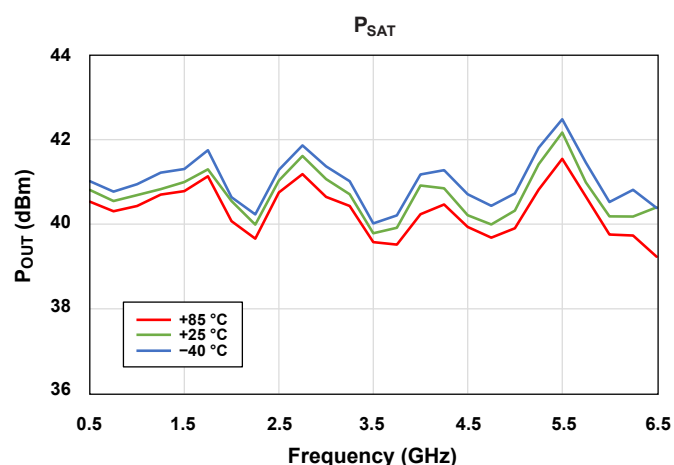


15 x 15 mm
Bolt-down Flange

CMPA0560008S

0.5 to 6 GHz, 10 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 0.5 to 6 GHz P_{SAT}: 10 W (typ) PAE: 40% LSG: 12 dB S₂₁: 19 dB S_{11/22}: 11/8 dB Bias: 28 V, 220 mA	> Market Leading Performance > High Gain for Reduced BOM	> Electronic Warfare > Radar > T&M > General Amplification



$P_{IN} = 28 \text{ dBm}, 150 \mu\text{s}, 20\%$

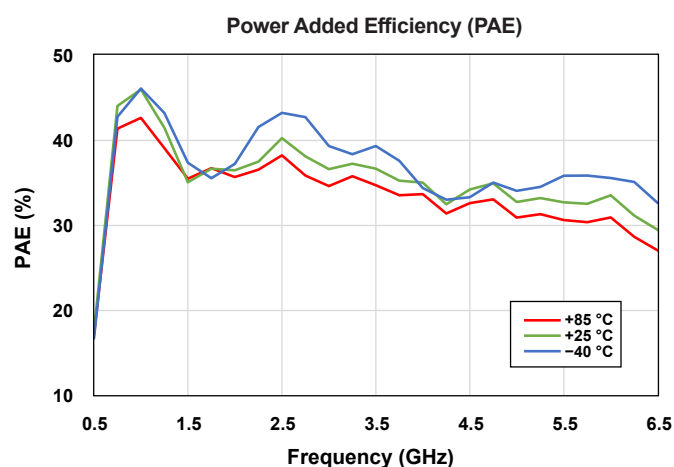
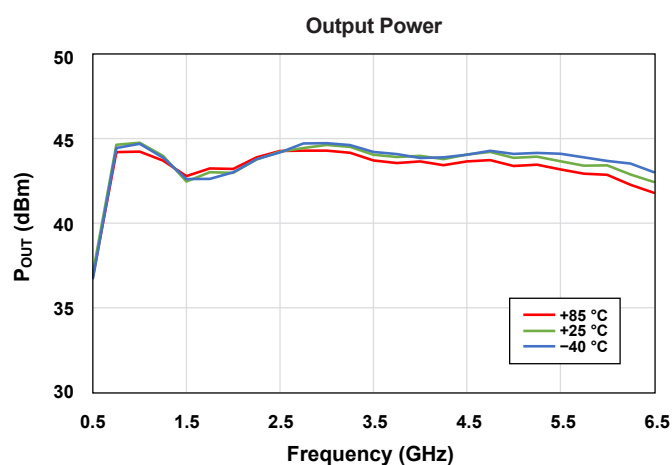


5 x 5 mm (S)

CMPA0760020F

0.7 to 6 GHz, 25 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 0.7 to 6 GHz P_{SAT}: 25 W (typ) PAE: 36% LSG: 21 dB S21: 33 dB RL: 10 dB Bias: 28 V, 600 mA CW Operation	> Broadband Coverage > High Power/PAE Combo > CW Operation > Thermally-enhanced Packaging	> Electronic Warfare > Communications > ISM Amplifiers > EMC Amplifiers



$P_{IN} = 23 \text{ dBm, CW}$

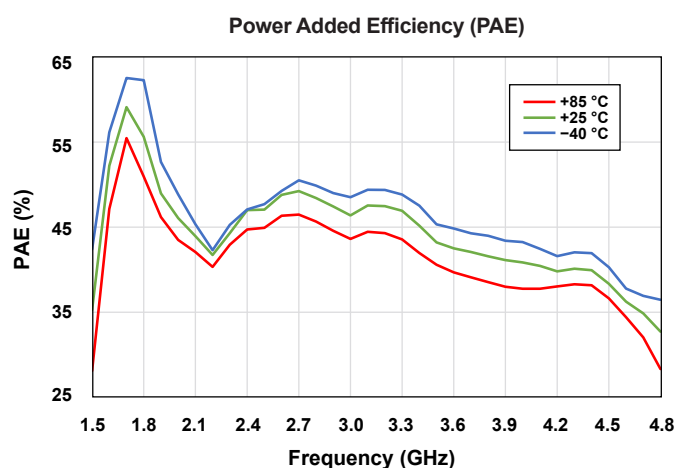
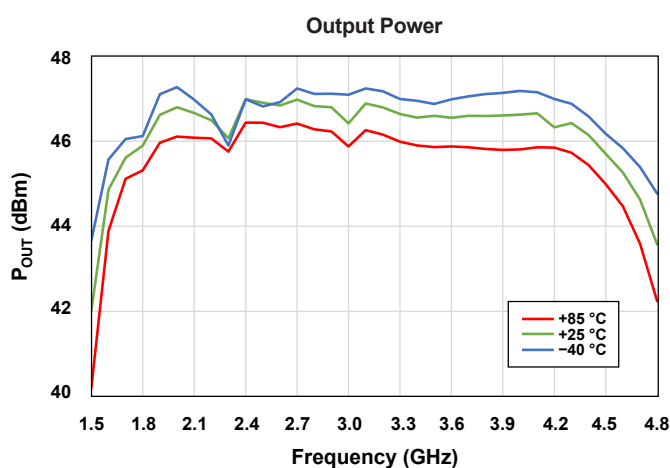


15 x 15 mm
Bolt-down Flange

CMPA1842040

1.8 to 4.2 GHz, 45 W GaN POWER AMPLIFIER

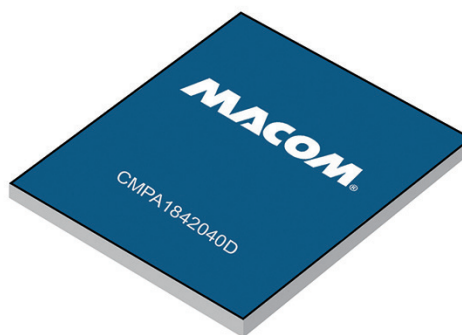
PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 1.8 to 4.2 GHz P_{SAT}: 45 W PAE: 45% RL: 10 dB Bias: 28 V, 550 mA CW Operation	> Broadband Coverage > High Power/PAE Combo > CW Operation > Good Linearity > Superior Thermal Management	> Electronic Warfare > Communications



P_{IN} = 23 dBm, CW



15 x 15 mm (F)

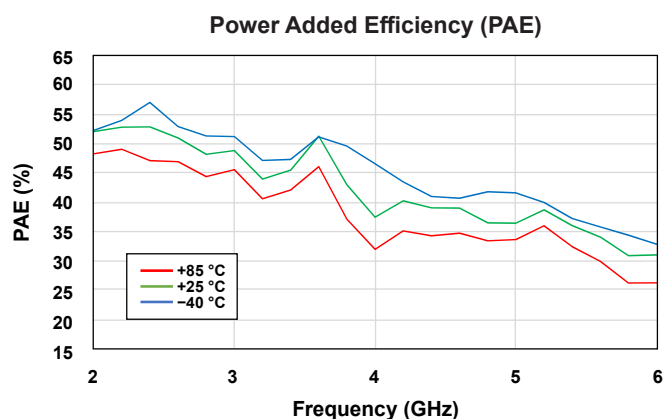
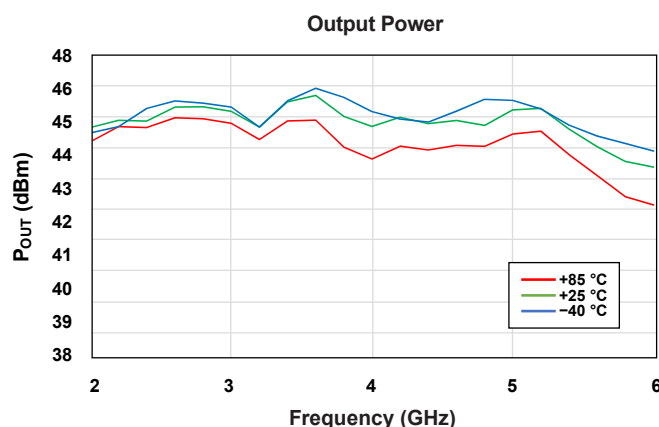


3.67 x 5 mm (D)

CMPA2060035

2 to 6 GHz, 35 W GaN POWER AMPLIFIER

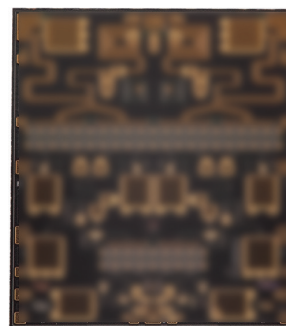
PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 2 to 6 GHz P_{SAT}: 35 W PAE: 40% LSG: 24 dB S21: 30 dB S11/22: 5/6 dB Bias: 28 V, 1.2 A	> Market Leading Performance > High Breakdown Voltage > High Thermal Conductivity > Flange: Cu-W Heat-sink > Die > High Efficiency	> EW > Radar > Test & Measurement



$P_{IN} = 27 \text{ dBm, CW}$



8 x 10.4 mm
(CMPA2060035F1)

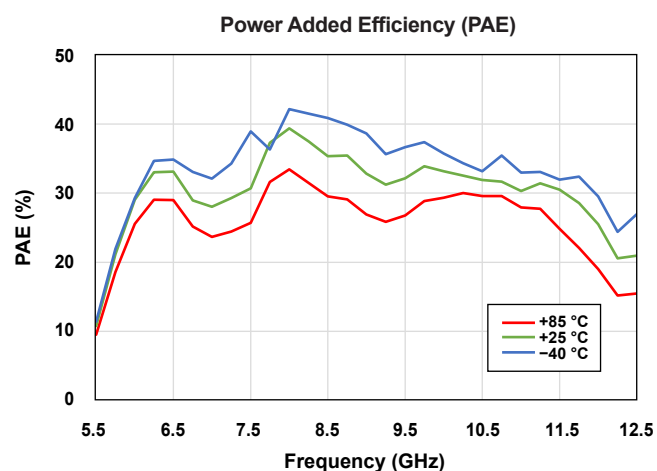
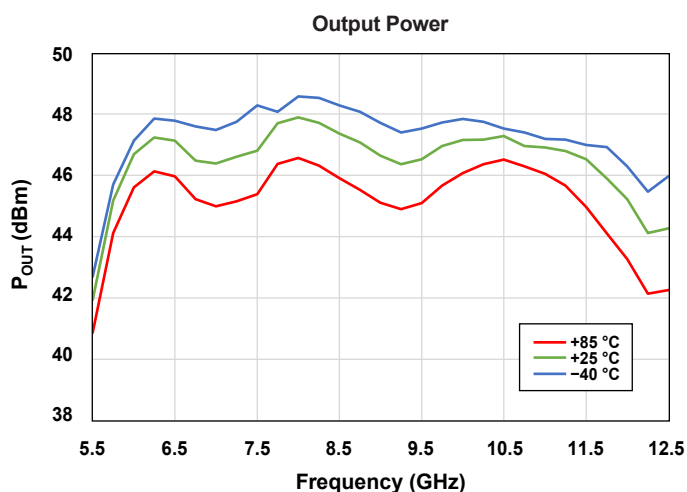


3.67 x 4.11 mm
(CMPA2060040D1)

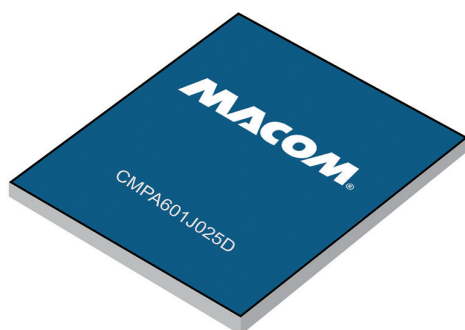
CMPA601C025

6 to 12 GHz, 40 W GaN POWER AMPLIFIER

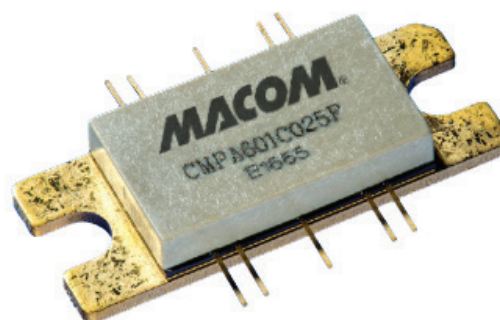
PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 6 to 12 GHz P_{SAT}: 40 W (typ) PAE: 32% LSG: 24 dB S₂₁: 35 dB S₁₁/S₂₂: 8/4 dB Bias: 28 V, 2 A	> Complete X-Band Coverage > High Gain Superior Efficiency > Thermally-enhanced Package > CW Operation	> EW > Radar > Broadband Amplifiers



P_{IN} = 22 dBm, CW



4.38 x 6.08 mm (D)

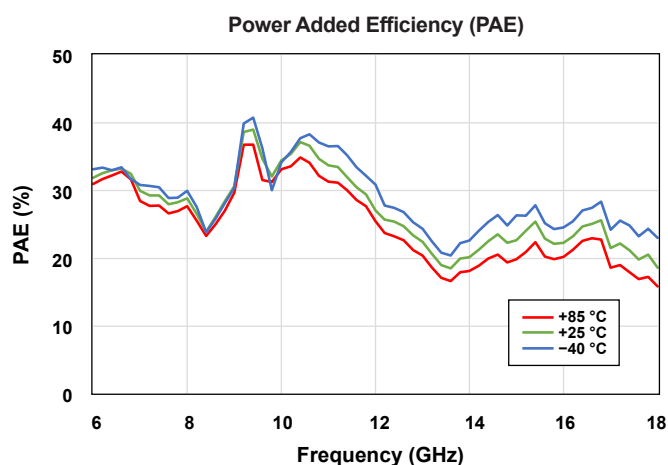
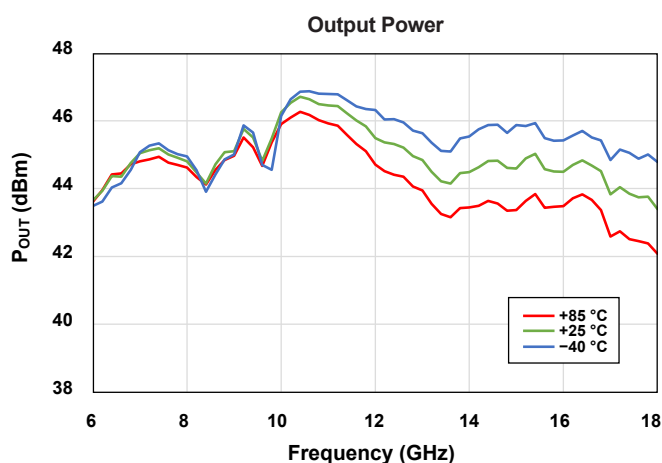


25 x 9.9 mm (F)

CMPA601J025

6 to 18 GHz, 25 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 6 to 8 GHz P_{SAT}: 25 W (typ) PAE: 20% LSG: 20 dB S₂₁: 30 dB S_{11/22}: 10/8 Bias: 22 V, >1.2 mA	> Superior Broadband Performance > Thermally-enhanced Package > CW Operation	> EW > Test Instrumentation > Radar



P_{IN} = 24 dBm, CW



15 x 15 mm (F)

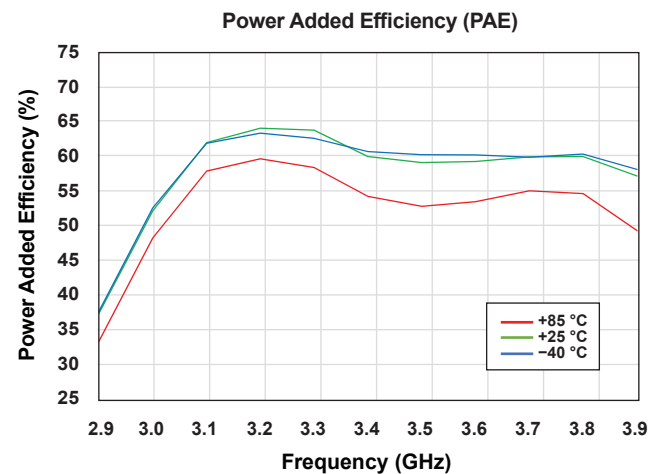
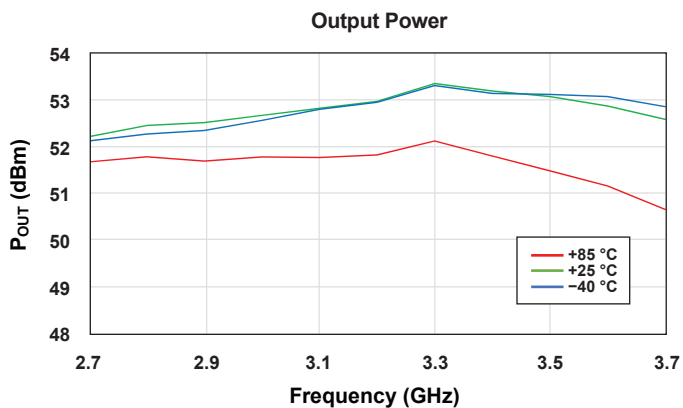


4 x 6.08 mm (D)

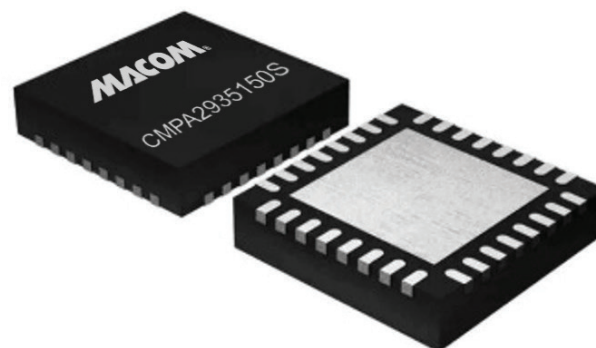
CMPA2935150S

2.9 to 3.5 GHz, 160 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 2.9 to 3.5 GHz P_{SAT}: 190 W PAE: 55% LSG: 25 dB S21: 30 dB S11/S22: 12/7 dB Bias: 50 V, 800 mA	> High Saturated Power and PAE > Automated Assembly > Environmentally Robust	> Pulsed Radar



Pulse: 100 μ s, 10%

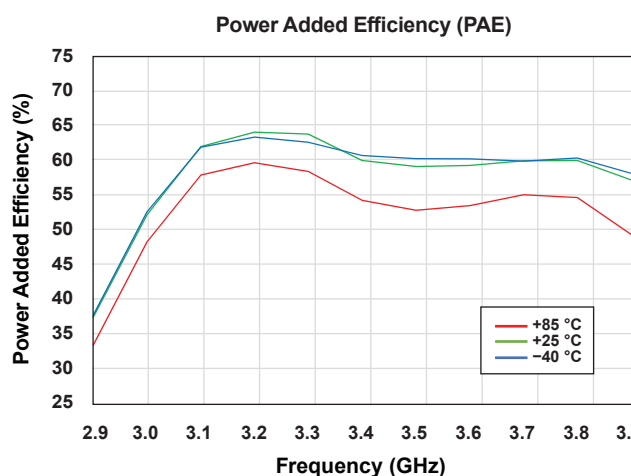
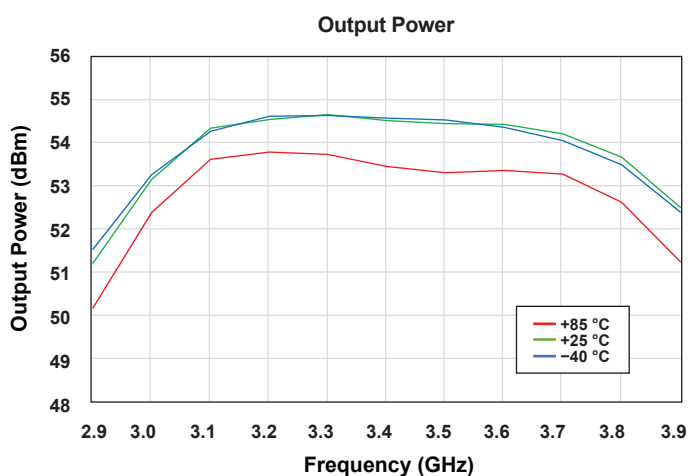


7 x 7 mm
Overmold QFN

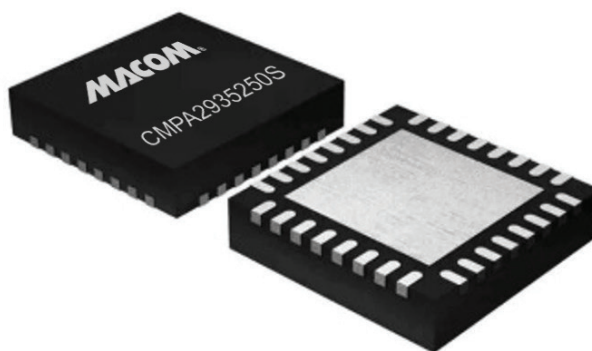
CMPA2935250S

3.1 to 3.7 GHz, 250 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 3.1 to 3.7 GHz P_{SAT}: 250 W PAE: 55% LSG: 24 dB S21: 28 dB S11/22: 15/8 dB Bias: 50 V, 500 mA	> High Saturated Power and PAE > Automated Assembly > Environmentally Robust	> Pulsed Radar



Pulse: 300 μ s, 20%

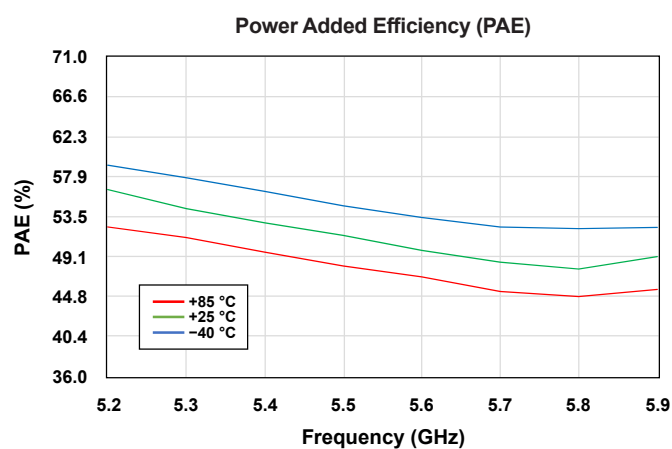
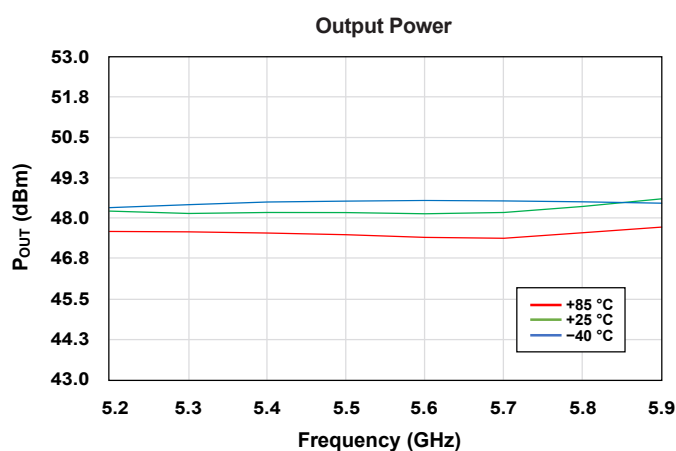


8 x 8 mm
Overmold QFN

CMPA5259050

5.2 to 5.9 GHz, 50 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 5.2 to 5.9 GHz P_{SAT}: 50 W PAE: 53% LSG: 23 dB Bias: 28 V, 500 mA	> High Power SS C-Band PA > High Efficiency (reduced P _{DISS}) > Small SMT Footprint > Overmold > Die > High Gain	> Radar



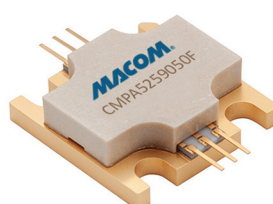
P_{IN} = 25 dBm, 150 μ s, 20%



3.38 x 3.38 mm (D)



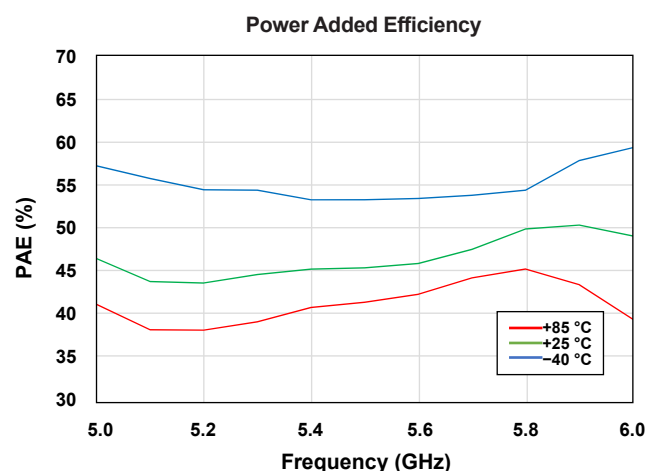
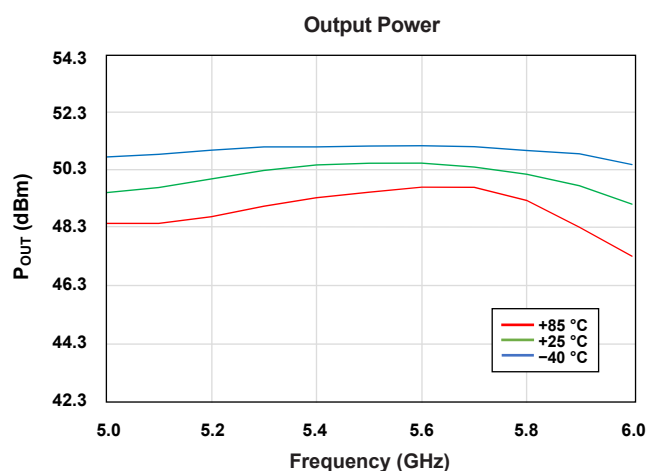
5 x 5 mm (S)



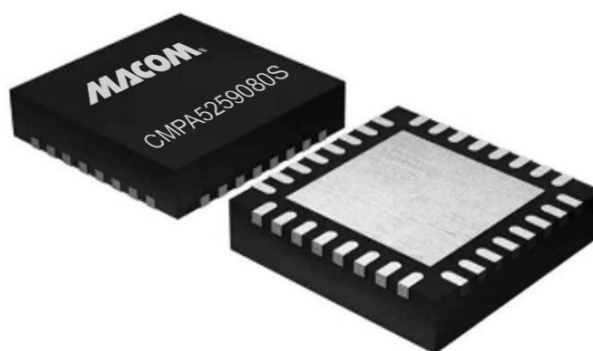
CMPA5259080S

5.2 to 5.9 GHz, 100 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 5.2 to 5.9 GHz P_{SAT}: 80 W PAE: 44% LSG: 22 dB S21: 28 dB S11/22: 15/8 dB Bias: 40 V, 500 mA	> High Saturated Power and PAE > Automated Assembly > Environmentally Robust	> Pulsed Radar



$P_{IN} = 29 \text{ dBm}, 500 \mu\text{s}$

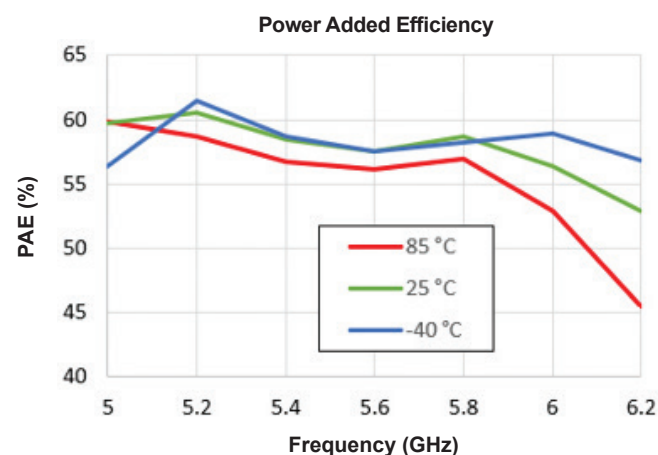
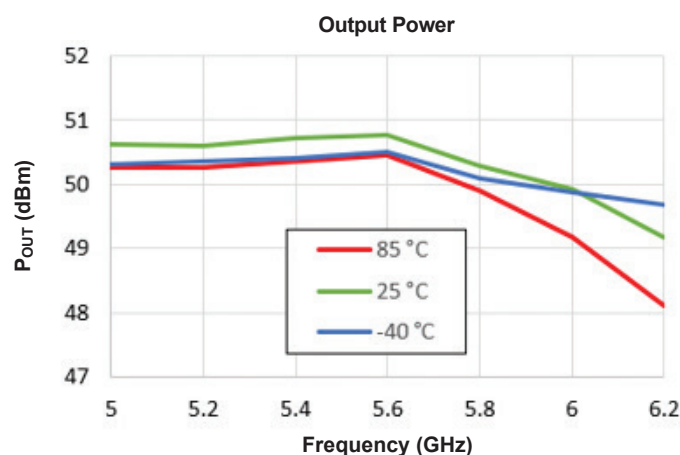


7 x 7 mm
Overmold QFN

CMPA5259100S

5.2 to 5.9 GHz, 100 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 5.2 to 5.9 GHz P_{SAT}: 100 W PAE: 57% LSG: 25 dB S21: 27 dB S11/S22: 15/4 dB Bias: 50 V, 100 mA	> High Efficiency > Small SMT Footprint > Automated Assembly > Environmentally Robust	> Radar



$P_{IN} = 25 \text{ dBm}$, 500 μs , 20%

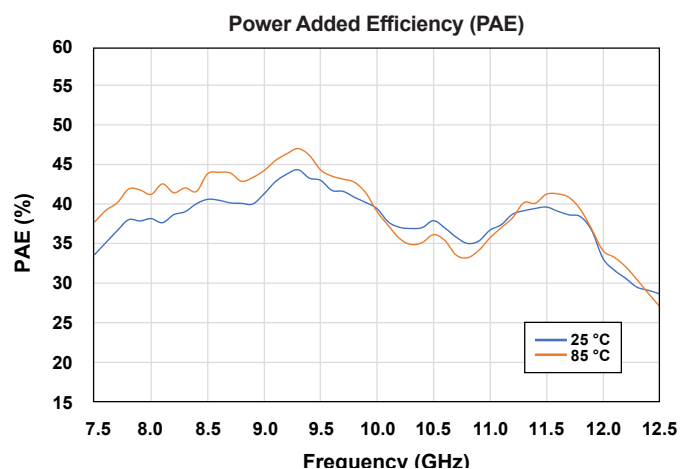
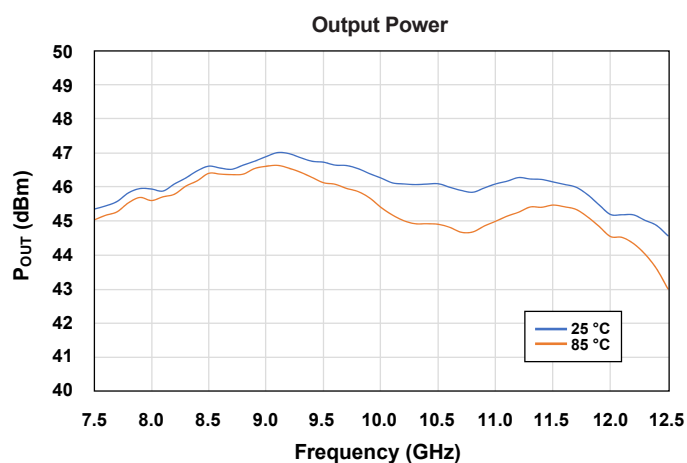


7 x 7 mm
Overmold QFN

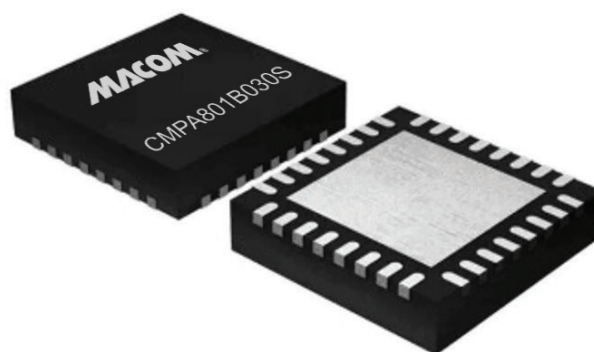
CMPA801B030S

7.9 to 11 GHz, 40 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 7.9 to 11 GHz P_{SAT}: 40 W (typ) PAE: 40% LSG: 20 dB S21: 25 dB S11/S22: 12/7 dB Bias: 28 V, 800 mA	> High Efficiency (Reduced P _{DISS}) > Supports Both Radar and SatCom Bands > Small SMT Footprint	> Radar > SatCom



P_{IN} = 26 dBm, 100 μ s, 10%

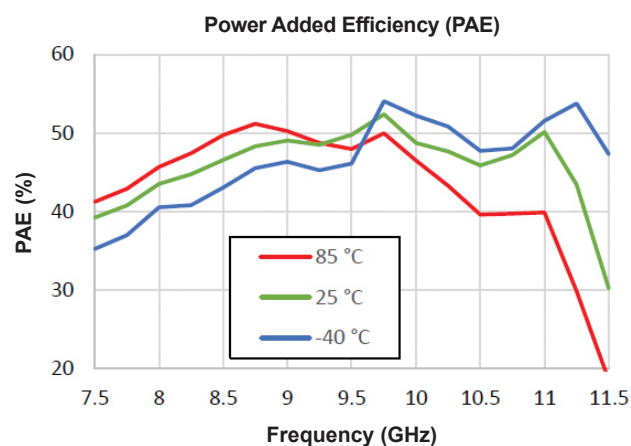
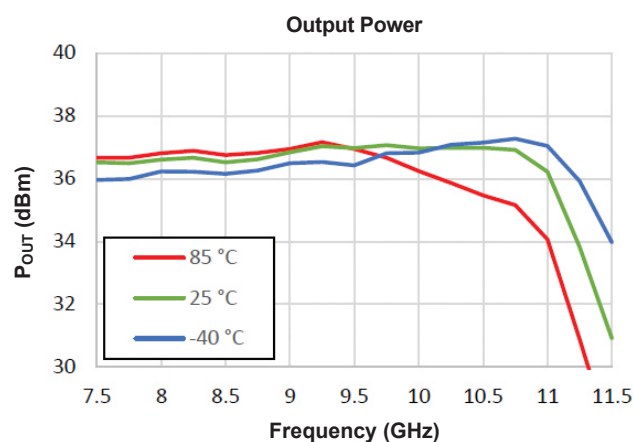


7 x 7 mm
Overmold

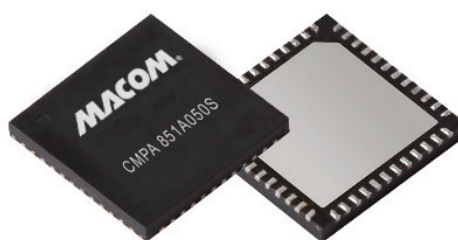
CMPA851A005S

8.5 to 10.5 GHz, 4.5 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 4.5 W (typ) PAE: 45% LSG: 31 dB S₂₁: 35 dB S_{11/22}: 15/7 dB Bias: 28 V, 60 mA	> EAR99 > High Gain for Reduced BOM > Small Overmold Packaging > Supports Automated Assembly > CW Operation > Environmentally Robust	> Commercial and Defense Radars



P_{IN} = 5 dBm, CW

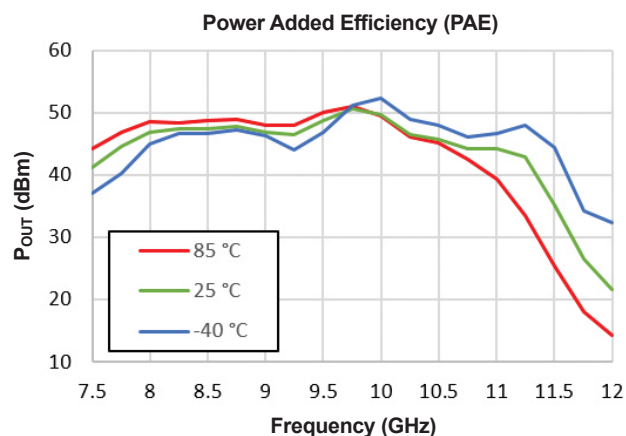
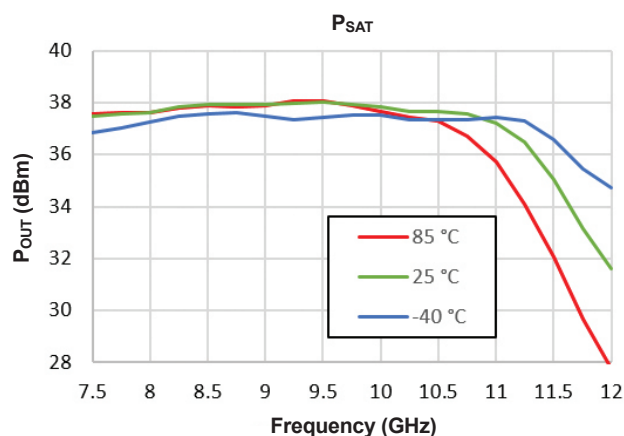


4 x 4 mm
Overmold

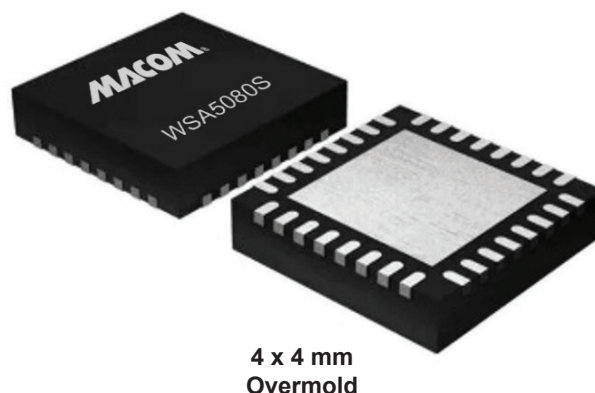
WSA5080S

8.5 to 10.5 GHz, 6 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 6 W (typ) PAE: 45% LSG: 32 dB S₂₁: 38 dB S₁₁/S₂₂: 12/10 dB Bias: 28 V, 40 mA	> High Efficiency (Reduced P _{DISS}) > Small Form Factor > Automated Assembly > Environmentally Robust	> Commercial and Defense Radars



P_{IN} = 5 dBm, 100 μs, 10%

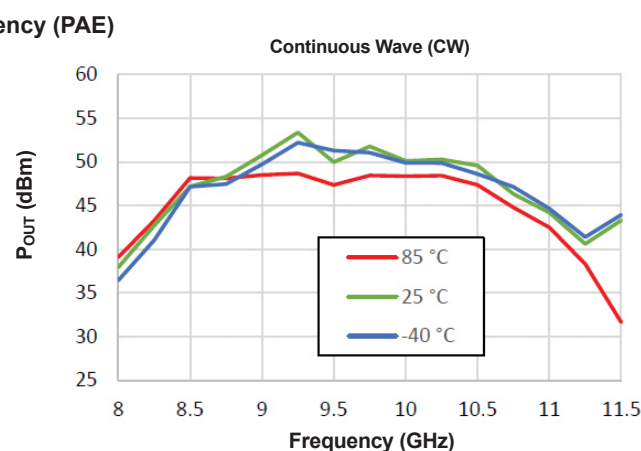
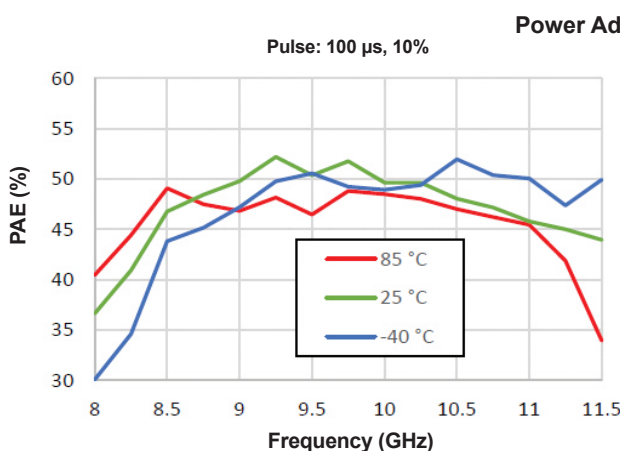
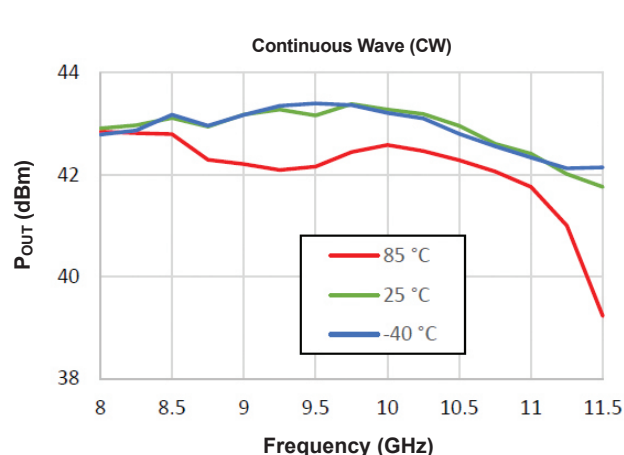
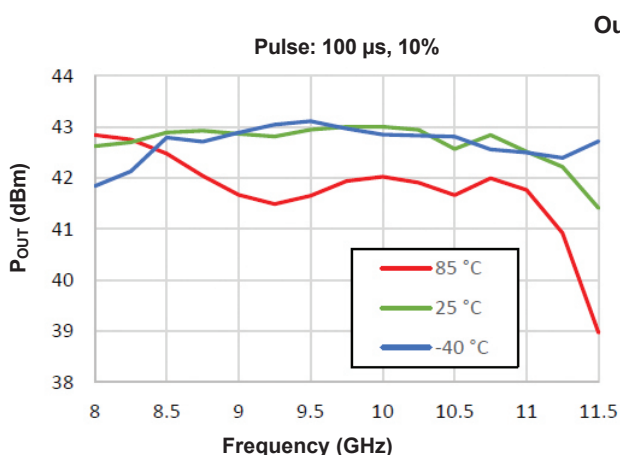


CMPA851A012S

8.5 to 10.5 GHz, 40 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 20 W (typ) PAE: 48% LSG: 29 dB S21: 32 dB S11/22: 15/15 dB Bias: 28 V, 180 mA	> High Gain for Reduced BOM > High Efficiency > Small Overmold Packaging > Supports Automated Assembly > Environmentally Robust > Supports CW Operation	> Commercial and Defense Radars

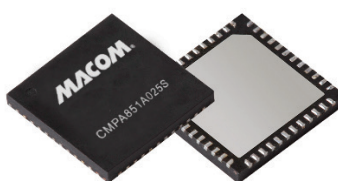
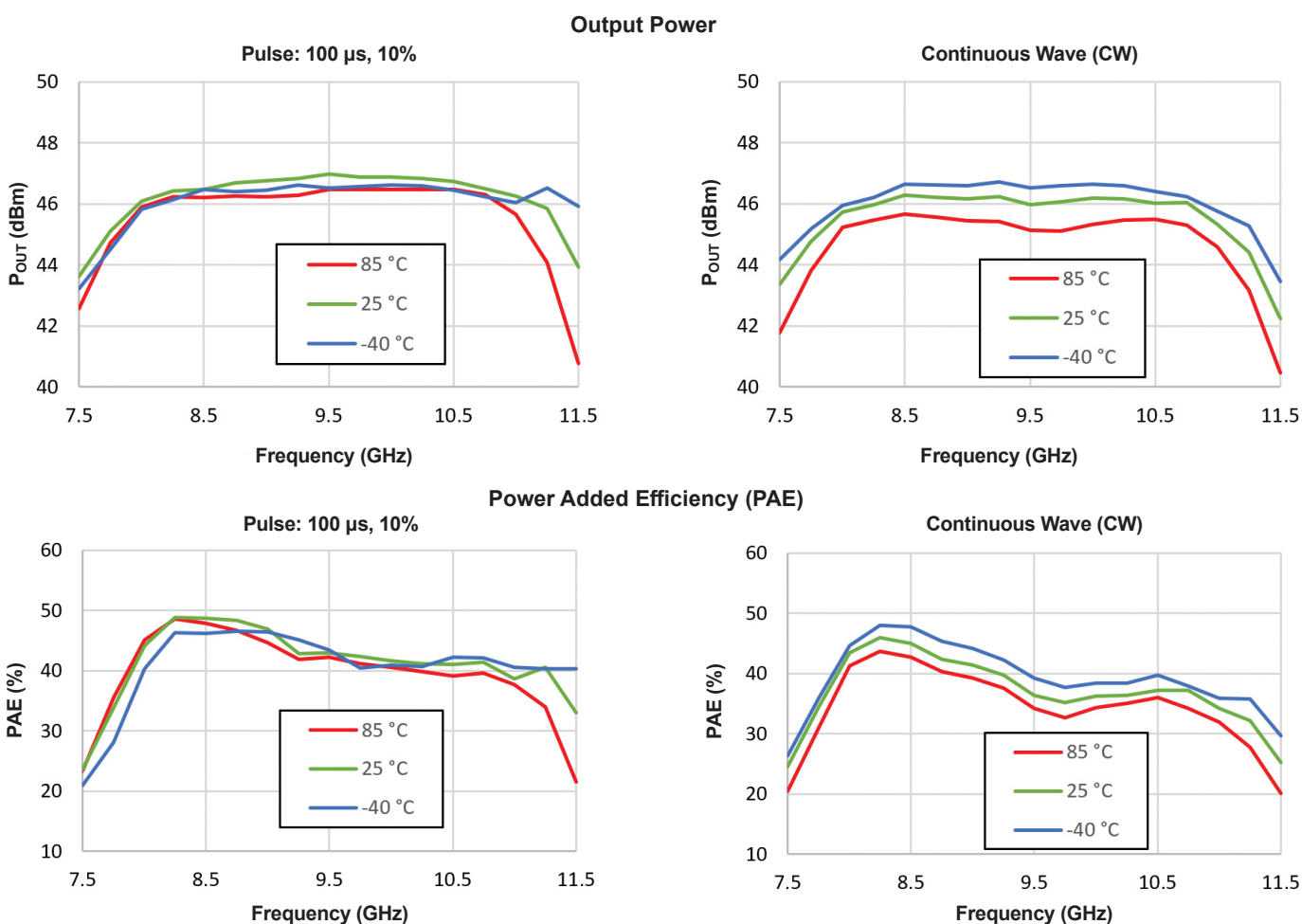
*Performance based on S version



CMPA851A025S

8.5 to 10.5 GHz, 40 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 40 W (typ) PAE: 45% LSG: 29.5 dB S21: 36 dB S11/S22: 11/9 dB Bias: 28 V, 400 mA	> Market Leading Performance > CW Operation > High Gain for Reduced BOM > Small Overmold Packaging > Supports Low Cost, Automated Assembly > Environmentally Robust	> Commercial and Defense Radars



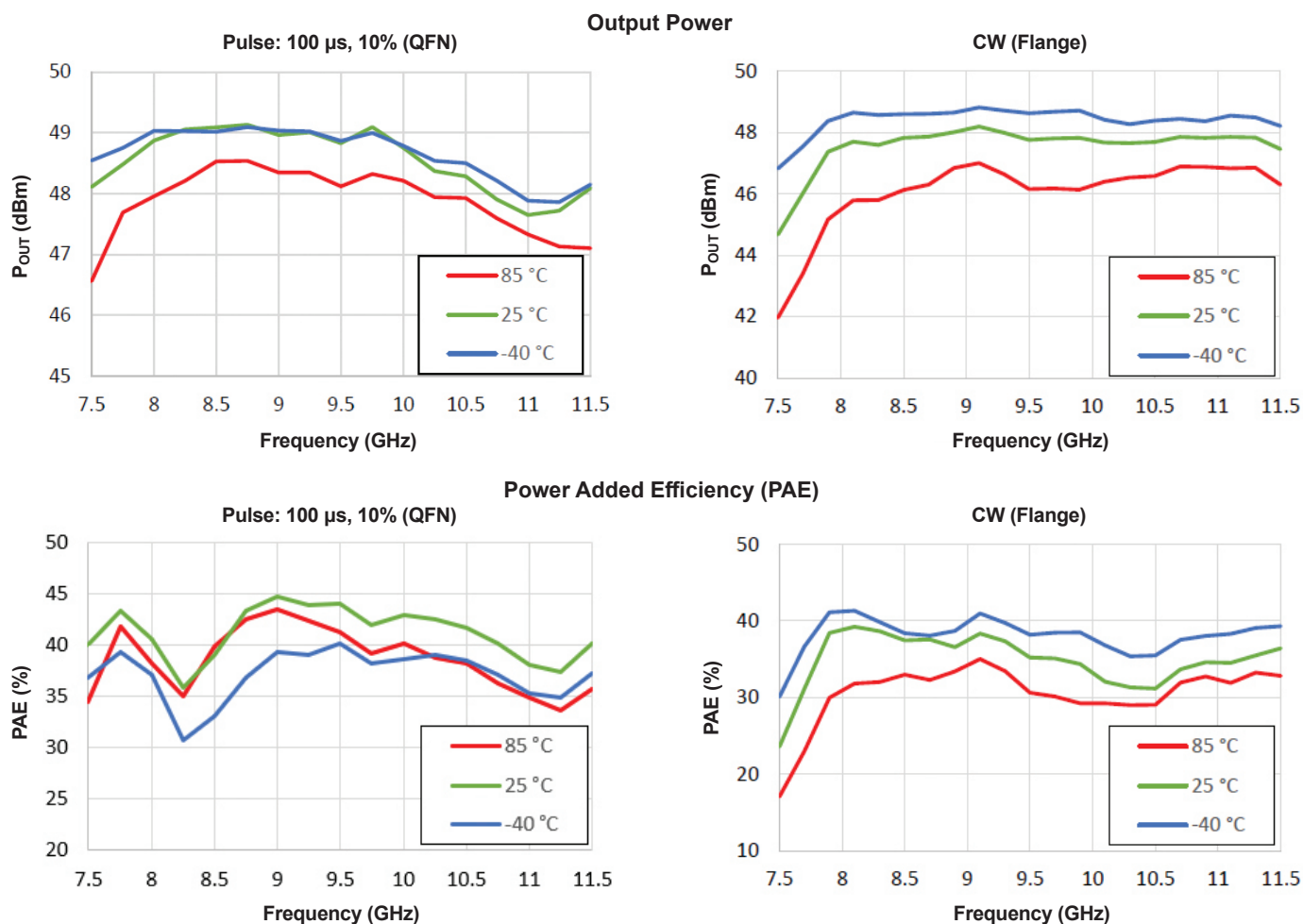
6 x 6 mm
Overmold QFN

CMPA851A050

8.5 to 10.5 GHz, 80 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 80 W (typ) PAE: 40% LSG: 29 dB S21: 34 dB S11/22: 10/15 dB Bias: 28 V, 1.2 mA	> Market Leading Performance > High Gain for Reduced BOM > Overmold QFN > Small Form Factor > Automated Assembly > Environmentally Robust > Flange > Support CW Operation	> Commercial and Defense Radars

*Performance based on S version



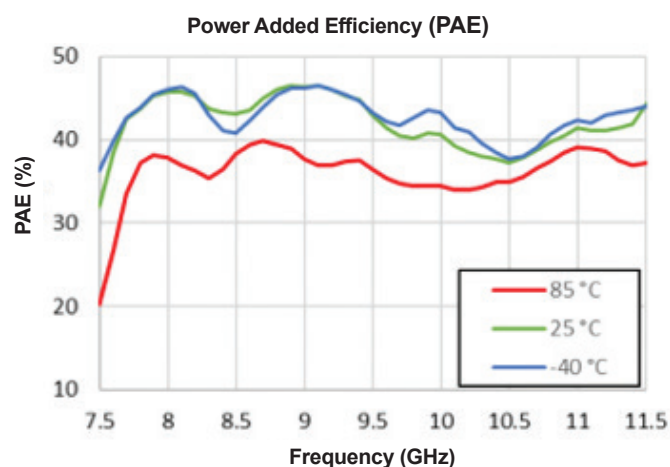
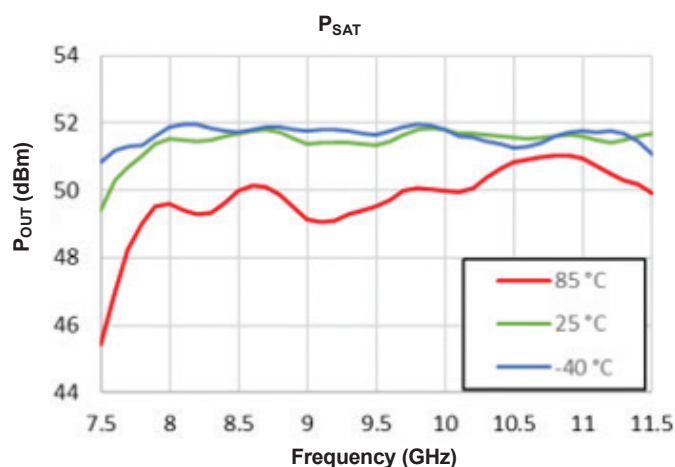
15 x 15 mm (F)



7 x 7 mm (S)

8.5 to 10.5 GHz, 140 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 8.5 to 10.5 GHz P_{SAT}: 140 W (typ) PAE: 40% LSG: 27.5 dB S₂₁: 28 dB S₁₁/22: 12/12 dB Bias: 28 V, 1.6 A	> Market Leading Performance > High Gain for Reduced BOM > Flange Package for Superior Thermal Management	> Commercial and Defense Radars



$P_{IN} = 24 \text{ dBm}, 100 \mu\text{s}, 10\%$



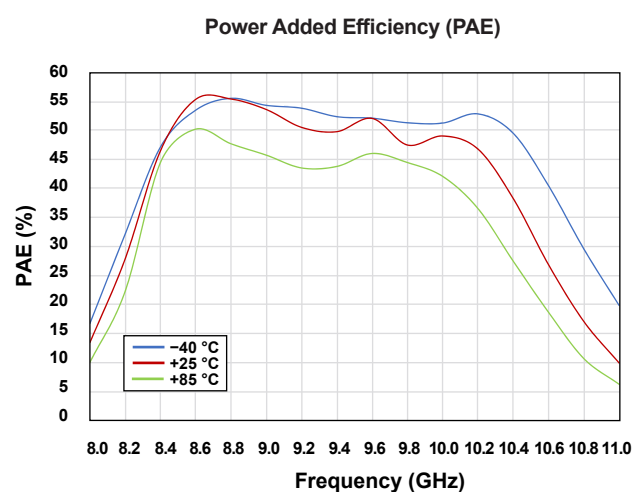
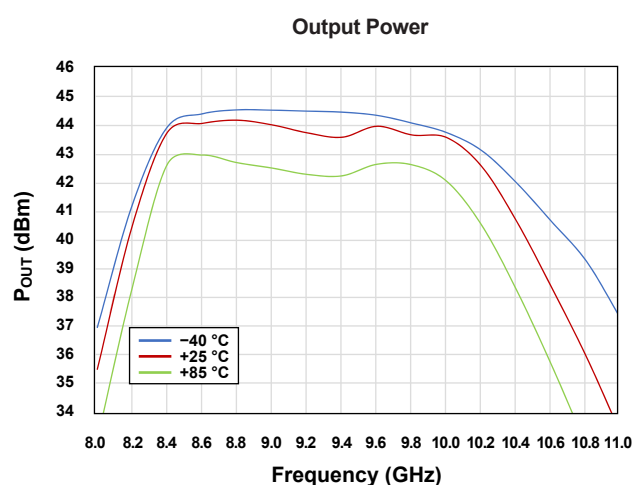
19 x 19 mm

CMPA901A020

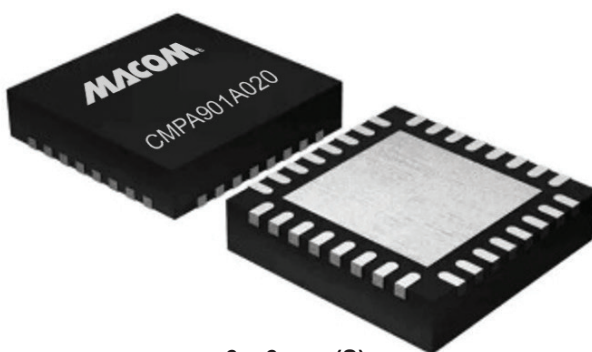
9 to 10 GHz, 20 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 9 to 10 GHz P_{SAT}: >20 W (typ) PAE: 50% LSG: 30 dB Bias: 28 V, 240 mA	> Good P _{OUT} /PAE Combination > Good Thermal Management > High Gain for Reduced BOM > Small Form Factor > Automated Assembly	> Weather Radar > Military Radar

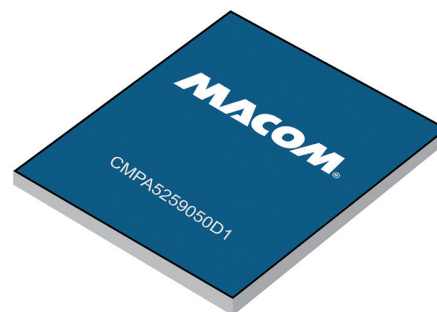
*Performance based on S version



P_{IN} = 12 dBm, 100 μ s, 10%



6 x 6 mm (S)

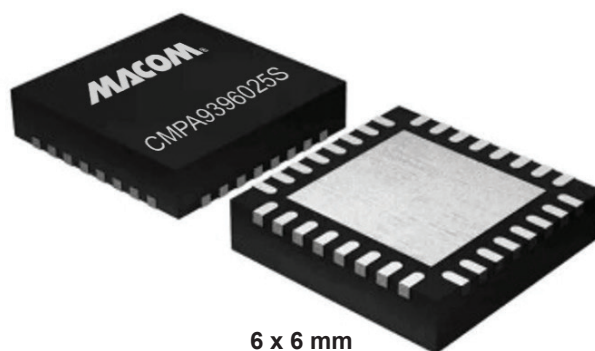
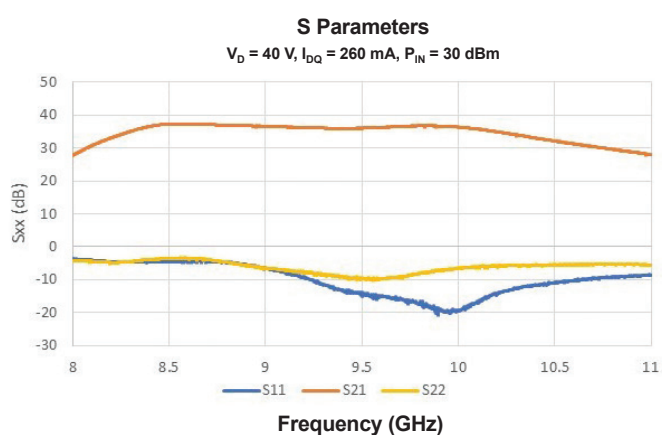
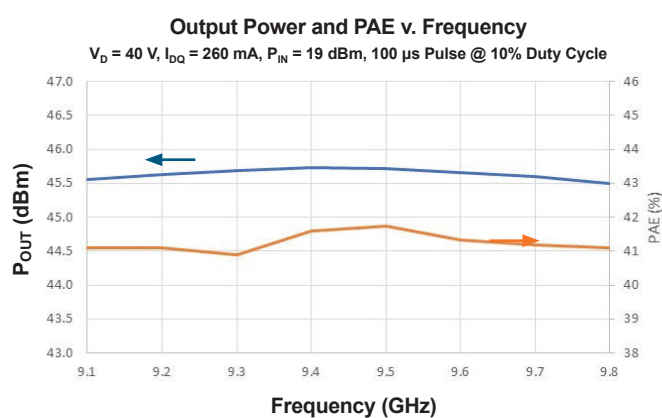


4.31 x 3.19 mm (D)

CMPA9396025S

9.3 to 9.6 GHz, 35 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 9.3 to 9.6 GHz P_{SAT}: 35 W (typ) PAE: 41% LSG: 27 dB Bias: 40 V, 260 mA	> High Efficiency (Reduced P _{DISS}) > Small SMT Footprint	> Marine Radar > Military Radar

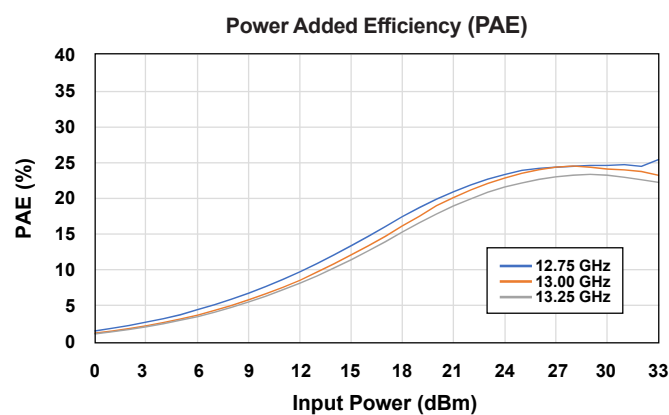
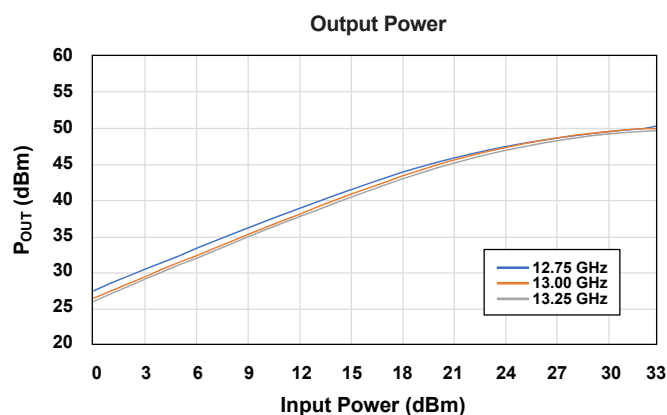


6 x 6 mm
Overmold

CMPA1C1D080F

12.75 to 13.25 GHz, 90 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 12.75 to 13.25 GHz P_{SAT}: 90 W (typ) PAE: >21% LSG: 17 dB IM3: -30 dBc @ 20 W S11/22: 12/12 dB Bias: 40 V, 750 mA	> Good P _{OUT} /PAE Combination > Good Thermal Management to Allow for CW Operation	> SatCom



P_{IN} = 33 dBm, CW

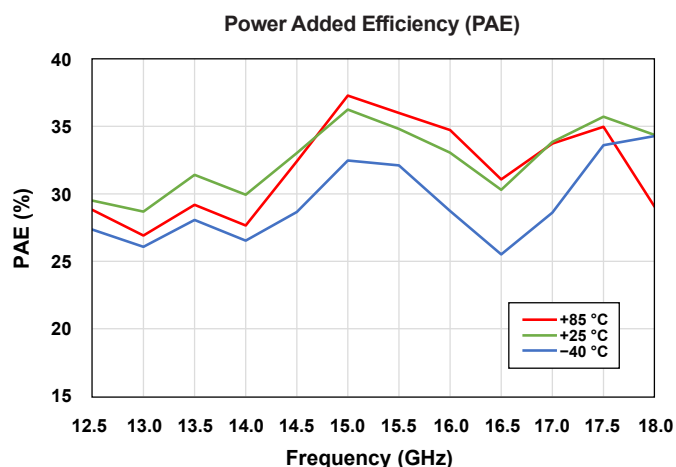
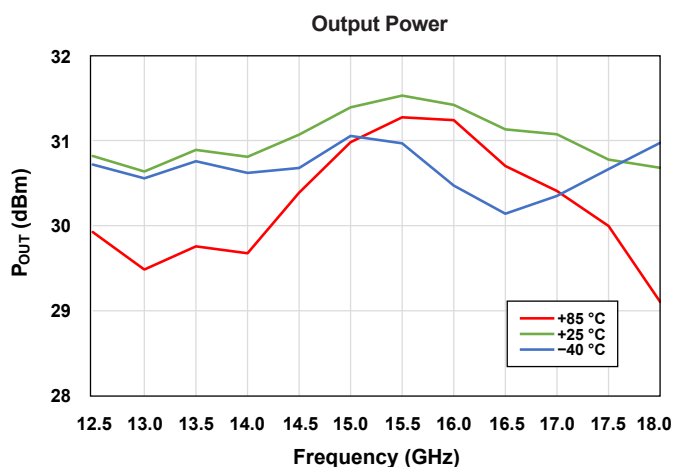


17.5 x 24 mm
Bolt-down Flange

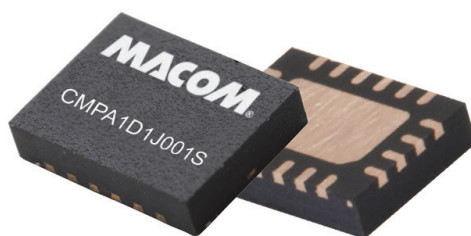
CMPA1D1J001S

12.75 to 18 GHz, 1 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 12.75 to 18 GHz P_{SAT}: 1 W (typ) PAE: 30% LSG: 23 dB S₂₁: 27 dB S_{11/22}: 10/8 dB Bias: 28 V, 800 mA	> Market Leading Performance > High Gain for Reduced BOM	> Aerospace > Radar > Communications



P_{IN} = 8 dBm, CW



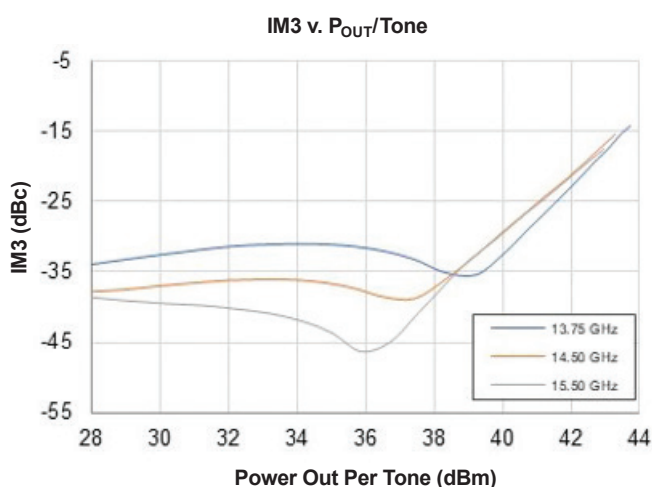
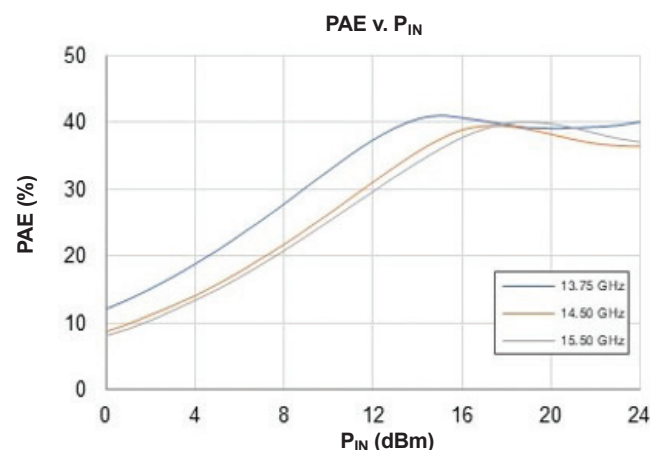
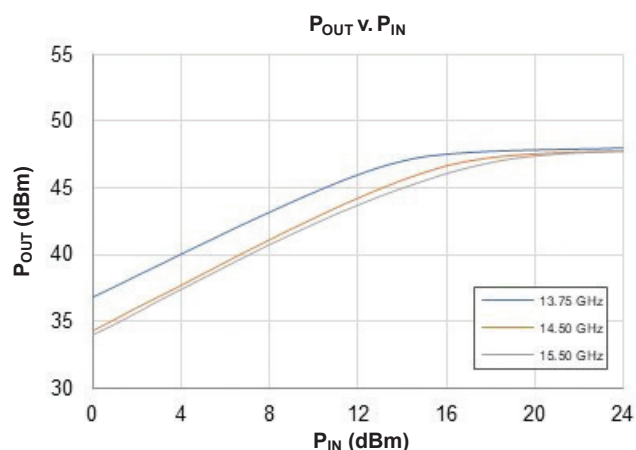
4 x 3 mm
Overmold

CMPA1E1F060

13.4 to 15.5 GHz, 60 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 13.4 to 15.5 GHz P_{SAT}: 60 W (typ) PAE: 38% LSG: 26 dB IM3: -25 dBc @ 25 W Bias: 28 V, 650 mA Size: 4.53 x 6.09 mm	> High Power Building Block > High Efficiency Under Backoff > Supports both SatCom and CDL Bands > Offered in Die Form, on Tab or Flange Package	> SatCom > CDL

*Features Based on Bare Die Version



15 x 15 mm (F)



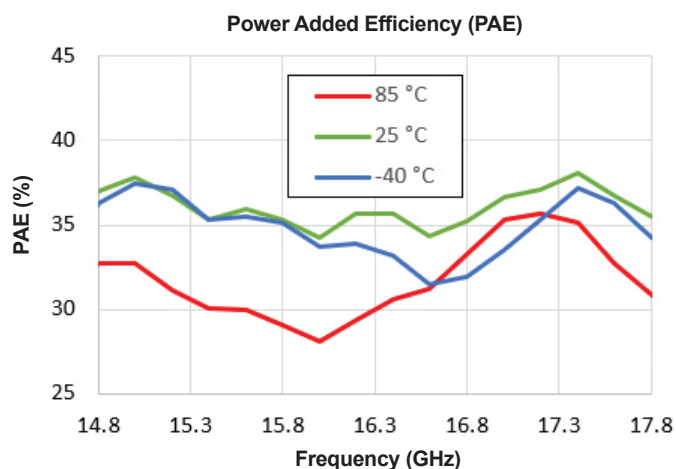
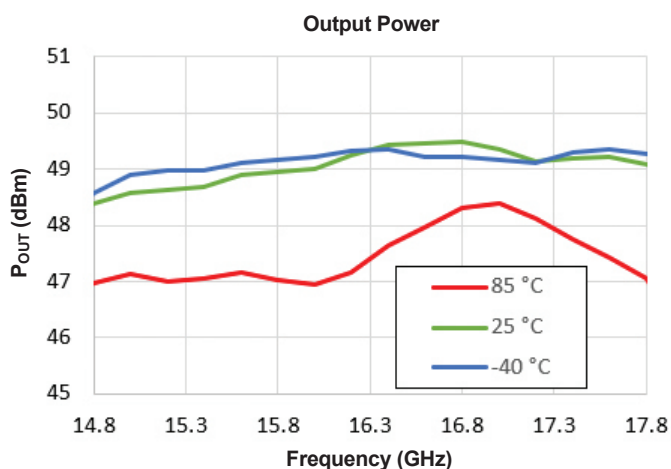
D or T

CMPA1F1H060

15.4 to 17.7 GHz, 80 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 15.4 to 17.7 GHz P_{SAT}: 80 W (typ) PAE: 35% LSG: 25 dB S21: 23 dB S11/22: 10/7 dB Bias: 28 V, 430 mA	> Market Leading Performance > High Gain for Reduced BOM > Offered in Die Form, QFN or Flange Package	> Airborne Radar > TWTA Replacements

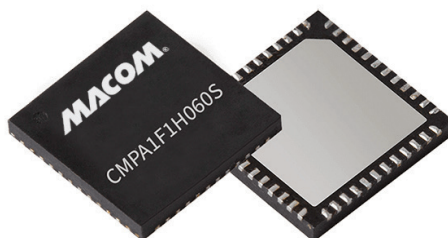
*Performance Based on S Version



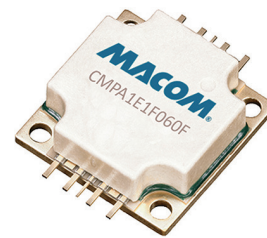
P_{IN} = 28 dBm, 150 μ s, 20%



5.87 x 5.88 mm (D)



6 x 6 mm (S)

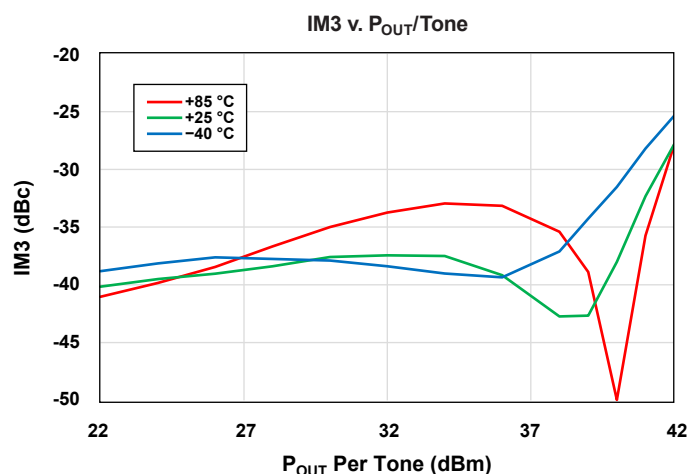
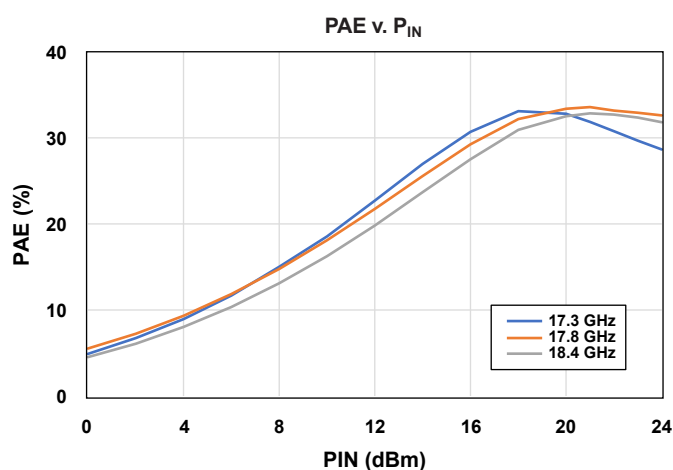
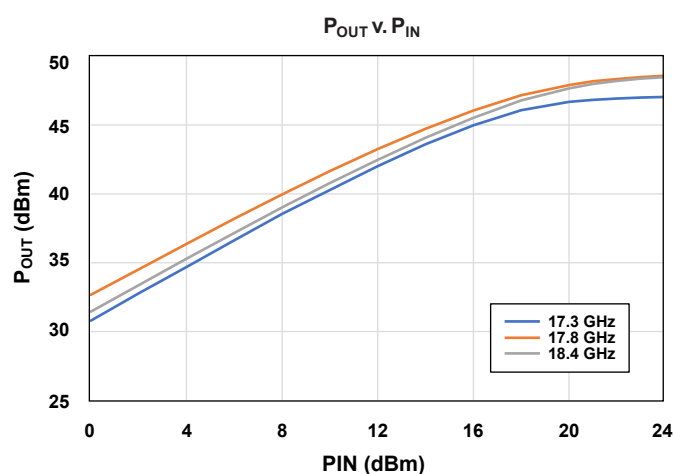


15 x 15 mm (F)

CMPA1H1J050F

17.3 to 18.4 GHz, 60 W GaN POWER AMPLIFIER

PRODUCT FEATURES	BENEFITS	MARKETS
Freq: 17.3 to 18.4 GHz P_{SAT}: 60 W (CW) PAE: 30% @ P _{SAT} LSG: 25 dB P_{LIN}: 25 W Bias: 28 V, 700 mA	> Flange Package for Thermal Management > Industry Leading Solid State Performance > VBW >500MHz	> DBS



24 x 17 mm

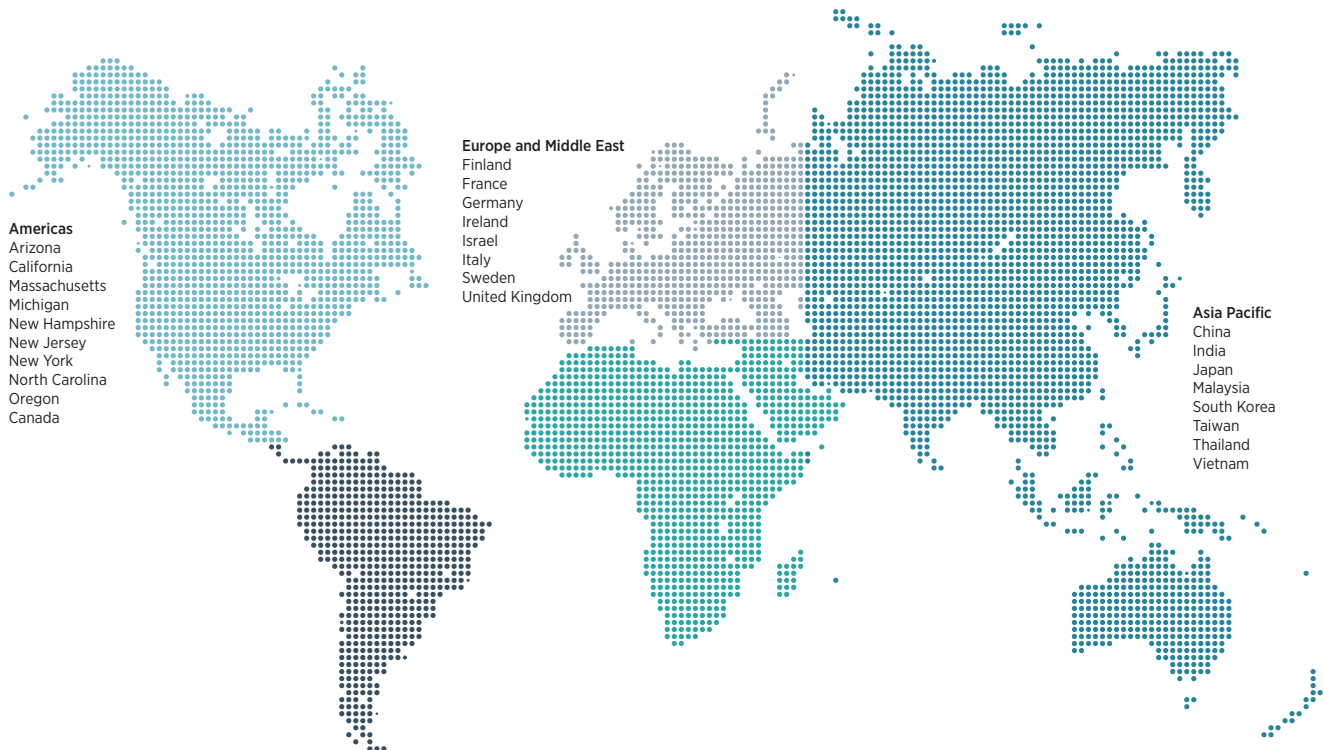


NOTES



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MACOM...an International Partner



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or authorized representatives to
request samples, test boards, and
application support.

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