



Wideband Power Amplifiers

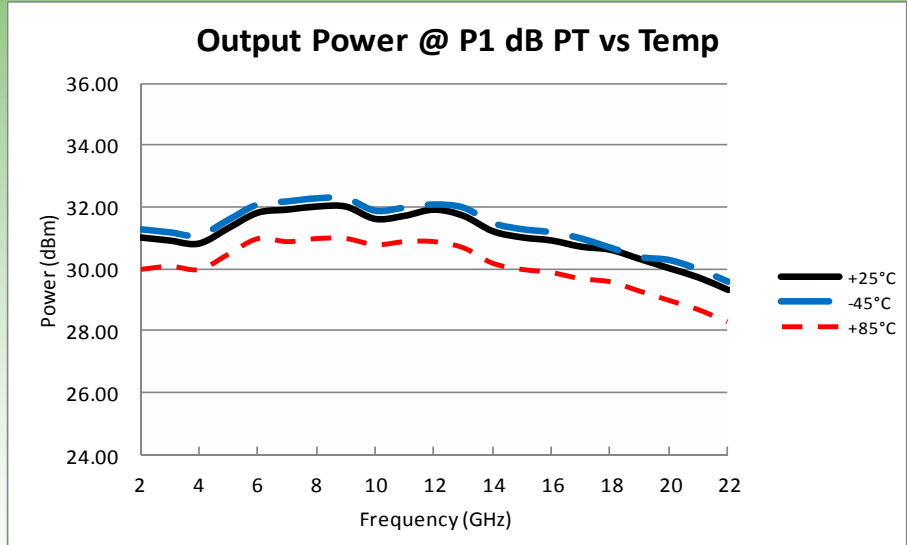
2.0-22 GHz - Output power levels up to +32 dBm

Features:

- ◆ High Output Power (Up to +32 dBm Typ)
- ◆ Flat Gain Response (± 1.5 Typ)
- ◆ Internal Voltage Regulators & Reverse Polarity Protection
- ◆ Unconditionally Stable (100% Tested)
- ◆ Competitively Priced
- ◆ Fast Delivery (1-3 Weeks ARO Typ)
- ◆ Fully Customizable to Meet Specific Needs

Options:

- ◆ Input Limiter Protection (Up to +30 dBm CW, 100W Peak Pulsed, 1 μ S Duration, 0.1% DC)
- ◆ Temperature Compensation
- ◆ Variable Gain Control & Bias-T Functions
- ◆ TTL/ RF Mute / BIT / Output Voltage Detector
- ◆ Contact Factory for Other Options



Ciao Wireless' Wideband Power Amplifier product line offers ultrawide bandwidth coverage combined with stable output power levels. Designs offer frequency coverage for 2-18 GHz, 2-20 GHz and 2-22 GHz with output power levels up to +32 dBm @ P1 dB PT offered. Each design is unconditionally stable with flat gain response (± 1.5 dB Typ) over the full pass band as well as good VSWR performance. Multiple gain and power levels are available with rapid delivery. All units are designed to meet the reliability and performance requirements of MIL-PRF-38534 with full environmental stress screening available to meet any particular customer requirement. Ciao Wireless offers custom designs with NO NRE and NO MINIMUM QTY requirements and at the competitive catalog pricing and delivery levels.

Model No.	Frequency (GHz)	Gain (dB) (Min / Typ)	Gain Flatness (dB) (Min / Typ)	Noise Figure (dB) (Min / Typ)	P-1dB (dBm) (Min / Typ)	IP3 (dBm) (Typ)	Input VSWR (Max / Typ)	Output VSWR (Max / Typ)	+15 VDC Current (mA Nom)	Size
CA218-2027	2.0 to 18.0	15 / 18	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	785	K3S
CA218-3027	2.0 to 18.0	24 / 26	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	865	K4
CA218-4027	2.0 to 18.0	31 / 33	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	905	K4
CA218-5027	2.0 to 18.0	37 / 40	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	950	K6
CA218-6027	2.0 to 18.0	42 / 45	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	985	K6
CA218-2029	2.0 to 18.0	17 / 20	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+30 / +32	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	820	K3S
CA218-3029	2.0 to 18.0	25 / 28	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+30 / +32	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	900	K4
CA218-4029	2.0 to 18.0	33 / 36	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+30 / +32	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	950	K4
CA218-5029	2.0 to 18.0	40 / 43	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+30 / +32	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	1000	K6
CA218-6029	2.0 to 18.0	45 / 47	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+30 / +32	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	1050	K6
CA220-2011	2.0 to 20.0	15 / 18	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	785	K3S
CA220-3011	2.0 to 20.0	24 / 26	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	865	K4
CA220-4011	2.0 to 20.0	31 / 33	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	905	K4
CA220-5011	2.0 to 20.0	37 / 40	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	950	K6
CA220-6011	2.0 to 20.0	42 / 45	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	985	K6
CA220-2013	2.0 to 20.0	17 / 20	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	820	K3S
CA220-3013	2.0 to 20.0	25 / 28	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	900	K4
CA220-4013	2.0 to 20.0	33 / 36	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	950	K4
CA220-5013	2.0 to 20.0	40 / 43	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	1000	K6
CA220-6013	2.0 to 20.0	45 / 47	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	1050	K6
CA222-2011	2.0 to 22.0	15 / 18	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	785	K3S
CA222-3011	2.0 to 22.0	24 / 26	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	865	K4
CA222-4011	2.0 to 22.0	31 / 33	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	905	K4
CA222-5011	2.0 to 22.0	37 / 40	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	950	K6
CA222-6011	2.0 to 22.0	42 / 45	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+27 / +29	+37	2.0:1 / 1.7:1	2.4:1 / 1.8:1	985	K6
CA222-2013	2.0 to 22.0	17 / 20	$\pm 2.0 / \pm 1.5$	7.5 / 6.0	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	820	K3S
CA222-3013	2.0 to 22.0	25 / 28	$\pm 2.0 / \pm 1.5$	5.5 / 4.0	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	900	K4
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CA222-6013	2.0 to 22.0	45 / 47	$\pm 2.0 / \pm 1.5$	5.0 / 3.5	+29 / +31	+40	2.0:1 / 1.7:1	2.4:1 / 1.8:1	1050	K6

Specifications guaranteed @ +23°C / +15 VDC Units must be properly heatsinked during operation

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