

Model 3304C

**30 - 310 MHz, 400 W pulsed,
solid-state, RF power
amplifier system**

Electrical specifications:

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|------------------------------|--|
| Frequency range | 30 - 310 MHz |
| Pulse power into 50 ohms | 400 W |
| CW power (max.) into 50 ohms | 40 W |
| Gain, | 62 dB \pm 5 dB |
| Harmonic levels | -25 dBc, typ. |
| Input/Output impedance | 50 ohms |
| Input VSWR | < 2:1 |
| Pulse width | 10 ms, 100 ms with long pulse option |
| Duty cycle | Up to 10% |
| Amplitude rise/fall time | 250 ns typ. |
| Amplitude droop | 5% to 10 ms typ.; 7% max. |
| Phase change/output power | 10° to rated power, typ. |
| Phase error over pulse | 4° to 10 ms duration, typ. |
| Noise figure | 8 dB typ. |
| Output noise (blanked) | < 20 dB over thermal |
| Blanking delay | < 1 μ s on/off, TTL signal |
| Protection | 1. VSWR: infinite VSWR at rated power 2. Input overdrive 3. Over duty cycle/pulse width 4. Over temperature |



Supplemental characteristics:

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|-------------------------|---|
| Connectors, rear panel | 1. RF input: BNC (F) 2. RF output: Type N (F) 3. Noise blanking: BNC (F) 4. Interface: 25 pin D(F), EMI filtered |
| Controls, front panel | 1. AC power 2. Fwd/Ref RF power 3. Pulse width |
| Indicators, front panel | 1. AC power on 2. Peak power meter 3. Over pulse width 4. Over duty cycle/Standby 4. Duty cycle 5. Over temperature 6. Overdrive, Fwd/Ref 7. CW mode |
| System monitors | 1. Forward/Reflected RF power 2. Over pulse width/duty cycle 3. DC power supply fault 4. Thermal fault |
| Cooling | Internal forced air |
| Operating temperature | +10 to 40°C |
| Power Supply | External power supply |
| AC line voltage | 208/230 VAC, \pm 10%, 1 ϕ , 47 - 63 Hz |
| AC power requirements | 850 VA |
| Size (HWD, inches) | 8.75 x 19.0 x 20.5 |
| Package | Rack mount |
| Net weight | 75 lbs. |