

Model 3303

**30 - 310 MHz, 700 W pulsed,
solid-state, RF power
amplifier system**

Electrical specifications:

Frequency range	30 - 310 MHz
Pulse power into 50 ohms	700 W
CW power (max.) into 50 ohms	70 W
Gain,	65 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	<ol style="list-style-type: none"> 1. VSWR: infinite VSWR at rated power 2. Input overdrive 3. Over duty cycle/pulse width 4. Over temperature



Supplemental characteristics:

Connectors, rear panel	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. AC power 2. Fwd/Ref RF power 3. Pulse width 4. Duty cycle
Indicators, front panel	<ol style="list-style-type: none"> 1. AC power on 2. Peak power meter 3. Over pulse width 4. Over duty cycle/Standby 5. Over temperature 6. Overdrive, Fwd/Ref 7. CW mode
System monitors	<ol style="list-style-type: none"> 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	1200 VA
Size (HWD, inches)	8.75 x 19.0 x 24.0
Package	Rack mount
Net weight	90 lbs.