Model 3900A-11

ISO 9001 CERTIFIED

6 - 220 MHz, pulsed, solid-state, RF power amplifier system

Electrical specifications:	**(-1) Ch B:**	**(-1) Ch A:**
Frequency range	6 - 220 MHz	6 - 220 MHz
Pulse power (min.) into 50 ohms	300 W	300 W **(not simultaneous)**
CW power (max.) into 50 ohms	30 W	30 W **(not simultaneous)**
Gain (typ.)60 dB	60 dB	
Gain flatness	±3 dB	±3 dB
Input/Output impedance	50 ohms	
Input VSWR	< 2:1	
Pulse width (Max/ch)	20 ms, 1 ms simultaneous	
Duty cycle	10%, 1% simultaneous	
Amplitude rise/fall time	200 ns typ.	200 ns typ.
Amplitude droop	CH B: <5% to 10 ms typ.; 7% max.	
	CH A: <5% to 10 ms typ,; 7% max	
Noise figure	8 dB typ.	8 dB typ.
Output noise (blanked)	< 20 dB over thermal	
Blanking delay	< 2 µs on/off, TTL signal	

Protection

1. VSWR: infinite VSWR at rated power
2. Input overdrive: up to 10 dB
3. Over duty cycle/pulse width
4. Over temperature

Supplemental characteristics:

Connectors, rear panel (2ea)

1. RF input: BNC (F)
2. RF outputs: Type N (F)
3. Noise blanking: BNC (F)
4. Interface: 25 pin D(F), EMI filtered

Controls, front panel

1. AC power
2. Duty cycle
3. Duty cycle

Indicators, front panel

1. AC power on 5. Overdrive
2. Over pulse width
3. Over duty cycle
4. Over temperature
6. CW mode
7. FWD/RFL power

System monitors

1. Thermal fault
2. DC power supply fault
3. Over duty cycle/pulse width
4. Forward/reflected RF power

Cooling	Internal forced air
Operating temperature	+10 to 40°C
AC line voltage	120/240 VAC, ±10%, 50 - 60 Hz
AC power requirements	1300 watts
Package	Rack mount
Size (HWD, inches)	5.25x19x24
Net weight	75 lbs

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