Model 3900-15

ISO 9001 CERTIFIED

6- 500 MHz, pulsed, solid-state, RF power amplifier system

Electrical specifications:	**(-1) Ch B:**	**(-5) Ch A:**
Frequency range	6 - 220 MHz	200 - 500 MHz
Pulse power (min.) into 50 ohms	300 W	100 W
CW power (max.) into 50 ohms	30 W	15 W
Gain (typ.)	60 dB	50 dB
Gain flatness	±3 dB	±3 dB
Input/Output impedance	50 ohms	
Input VSWR	< 2:1	
Pulse width (Max/ch)	20 ms	
Duty cycle	Up to 1%	
Amplitude rise/fall time	200 ns typ.	175 ns typ.
Amplitude droop	CH B: <5% to 10 ms typ.; 7% max.	
	CH A: <10% to 10 ms typ,; 15% max	
Noise figure	8 dB typ.	9 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	3. Duty cycle
	2. Duty cycle	
Indicators, front panel	1. AC power on	5. Overdrive
	2. Over pulse width	6. CW mode
	3. Over duty cycle	7. FWD/RFL power
	4. Over temperature	
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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