

PowerMAXX, 3T120A

**10-130 MHz, 12.0 kW, pulsed,
solid-state, RF power
amplifier systems**

Electrical specifications:

Frequency range	10 - 130 MHz
Pulse power (min.) into 50 ohms	12,000 W @ P1db
Linearity (0-12,000W)	±1.0db @ H ₁ , ±1.5dB otherwise, max.
Output power stability (pulse-to-pulse)	0.3 dB over 30min.
Output phase stability (pulse-to-pulse)	3.0° over 30 min.
Harmonic levels	2 nd: <-22 dBc, 3rd: -15 dBc, typ. at 12 kW output
Gain (0 dBm input)	70.8 dB min.
Gain flatness	±4 dB
Input/output impedance	50 Ω, nominal
Input drive level for rated power output	0dbm, max.
Input power (max.)	+10dbm
Input VSWR	< 1.5:1
Pulse width	5 ms max. at 12.0 kW
Duty cycle	Up to 5% at 12.0 kW
Noise figure	15 dB typ., with 0 dB attenuation at the RF input
Output noise level (blanked)	< 20 dB over thermal
Blanking delay	< 2 μs "ON", 2 μs "OFF", TTL signal
Protection	1. VSWR: infinite VSWR at rated power 2. Over duty cycle/pulse width 3. Over temperature

Supplemental characteristics:

Connectors, rear panel	1. RF input: BNC (F) 2. RF output: HN 3. Noise blanking: BNC (F) 4. Interface: 25 pin D(F), EMI filtered
Indicators, front panel	1. Power 2. Standby 3. Ready 4. Unblank 5. Fault 6. Status code
System monitors	1. Forward/Reflected RF power 2. Over pulse width/duty cycle 3. DC power supply under/over voltage 4. Over thermal
Controls	1. AC power 2. Pulse width 3. Duty cycle 4. Forward/Reflected power
Cooling	Air Cooled
Operating temperature	Ambient: +10° to +40° C
Line voltage	208 or 240 VAC, ±10%, 3 Ø, 50 - 60 Hz
AC power requirements	15kVA, max.
Package	19 inch rack cabinet
Size (HWD)	TBD
Weight	TBD