

ISO 9001 CERTIFIED

Model 7T05

**280 - 320 MHz, 500 W Pulsed,
Solid-state, RF Power
Amplifier System**

Electrical specifications:

Frequency range	280 - 320 MHz
Pulse power (min.) into 50 ohms	500 W
CW power (max) into 50 ohms	50 W
Linearity (± 1 dB)	0 - 450 W
Gain (typ.)	62 dB
Gain flatness, Typical	± 2 dB
Input/Output impedance	50 ohms
Input VSWR	< 2:1
Pulse width	20 ms, 100 ms with long pulse option
Duty cycle	Up to 10%
Amplitude rise/fall time	250 ns typ.
Amplitude droop	5% to rated pulse width, typ., 7% max
Phase change/output power	10° to rated linear power, typ.
Phase error overpulse	4° to rated pulse width, typ.
Noise figure	8 dB typ.
Output noise (blanked)	< 10 dB over thermal
Blanking delay	< 1 μ s on/off, TTL signal
Protection	1. Infinite VSWR at rated power 2. Output overdrive 3. Over duty cycle/pulse width 4. Over temperature

Supplemental characteristics:

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
Indicators, front panel	1. AC power on 5. Over temperature 2. Peak power meter 6. Overdrive, Fwd/Ref 3. Over pulse width 7. CW mode 4. Over duty cycle/Standby
System monitors	1. Forward/Reflected RF power 2. Over pulse width/duty cycle 3. DC power supply fault 4. Thermal fault
Front panel controls	1. AC power 2. Pulse width 3. Duty cycle 4. Forward/Reflected Power 5. Amplifier Enable/Standby
Cooling	Internal forced air
Operating temperature	+10 to 40°C
AC line voltage	208/230 VAC, $\pm 10\%$, 47 - 63 Hz, Single Phase
AC power requirements	850 VA
Package	Rack mount
Size (HWD, inches)	8.75 x 19.0 x 22.0
Net weight	75 lbs.



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