

Advanced Test Equipment Rentals www.atecorp.com 800-404-ATEC (2832)





		1.0 – 18 GHZ * 2,000 – 4,000 watts, Minimum Kateu I ower	
Standard F	Features for IFI	PT-Series Pulse TWT Amplifiers	
Standard Features		d Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance, Fircuit Protection.	
	* Alternate Prim	ne Power (specify at time of order)	
	GPIB IEEE 488 & RS232 Remote Control		
	RF Sample Port on the Front Panel, 112R for rear panel		
	Internal Pre-amp	plification to obtain rated output power with an input level of 0 dBm or less.	
	RF Input/Output	t Connectors on the Front Panel, 118R for rear panel	
	Internal Systems	s Diagnostics & Status Indicators	
		Elapsed Time Metering in hours	
	RF Safety Interl		
	Forward/Reflect	ted Power Indication simultaneously on Front Panel display	
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PT- Series Specifications: Frequency Range:		As Specified in Model Table	
Rated Output I		As Specified in Model Table	
Gain @ Rated		As Specified in Model Table	
Prime Power:		As Required for Customer (Some are listed below)	
Input/output Impedance:		50 ohms	
RF Input/ Sample Connectors:		Type N Female, unless specified otherwise	
		Type SC or 716 Female up to 8 GHz, 8-12 GHz is WR90, 12-18 GHz is WR62, 7.5-18 GHz is WRD750, 6.5-18 GHz is WRD650	
RF Output Connector:		Other waveguides available by request or specification (see Option 117)	
Input VSWR/Output VSWR:		2.0:1/ 2.5:1	
Pulse Input:		BNC Female Front Panel {TTL into 50ohms standard} consult factory for special requirements	
Pulse Width Range:		100nsec – 100usec	
PRF Range:		Up to 100 KHz Standard, Higher PRF ranges available consult factory	
Duty Cycle:		6% Standard, Lower & Higher PRF ranges subject to TWT spec.	

Duty Cycle.	6% Standard, Lower & Figher PKF ranges subject to 1 w 1 spec.
Rise & Fall Time:	15 ns nominal; 20 ns maximum
Pulse to Pulse Jitter:	+/- 5 nsec maximum
Pulse Width Jitter:(Distortion)	+/- 5 nsec maximum
Pulse Recovery Time:	150 nsec maximum
Pulse Delay:	250 nsec maximum / 180 nsec typical
Pulse Droop:	0.5 dB/100usecs, 0.1dB/10usec
Power Output Stability:	0.2dB Pulse to Pulse at constant drive level & PRF
Pulse On/Off Ratio:	80 dB
Phase Stability Pulse to Pulse:	+/-1 degree nominal
Temperature:	0° to 50° C operating, -40° to 70° C non-operating
Humidity:	95% without condensation
Altitude:	10,000 feet operating, 50,000 non-operating
Cooling System:	Air cooled, self-contained
Modulation:	All types, AM, FM, Pulse
Configuration:	Rack Mount as specified in Model Table
Spurious Outputs:	<-60 dBc nominal

Standard Prime Powers:

100, 115, 120 VAC ±10% 50/60 Hz, single phase

200, 220, 230, 240VAC ±10% 50/60 Hz, single phase

100/200VAC, 115/208 or $200/220/230/240VAC \pm 10\%$ 50/60 Hz, three phase Wye or Delta and/or 400 Hz power is available. Special Prime Powers other then listed are subject to availability

Some Available Options for IFI PT- Series TWT Amplifiers

Option 103 G/D:	VSWR Reflected Power Protection "Graceful Degradation Feature" which will automatically reduce the input drive and fold back the output	
	power when the average reflected power exceeds a preset limit of 3.0:1.	
	The unit operates without damage or oscillation into any magnitude of phase or load impedance.	
Option 110-1E:	GPIB IEEE-488 RS232 and Ethernet Remote Control	
Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control	
Option 110-3	GPIB IEEE-488 and RS 485 Remote Control	
Option 113:	Chassis Slides for 19" Rack Mounting	
Option 118F or R:	Front Panel RF Connections 118R for Rear Panel RF Connections	
Option 123F or R:	Reflected RF Sample Port -40, -50 or -60dB N or SMA, Front or Rear Panel	

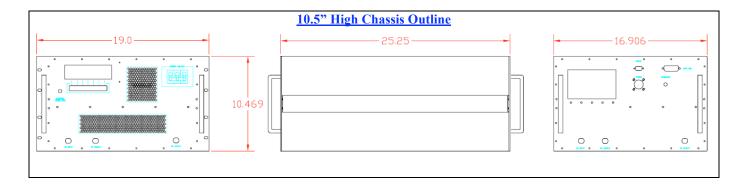
Instruments For Industry

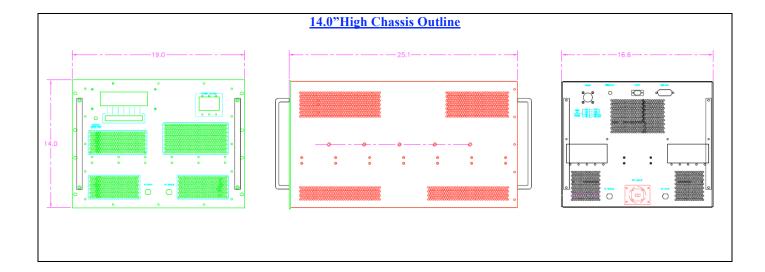
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PT-KW Series Pulse TWT Microwave Power Amplifiers 1.0 – 18 GHz • 2,000 – 4,000 watts, Minimum Rated Power

Outline Configurations:





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