

RPR-4000 Standard Configurations

	RPR-4000-VHP	RPR-4000-HP		RPR-4000	RPR-4000-HD
Pulser Configuration:	Very High Power	High Power		Standard	High Duty Cycle
Maximum Output Level ^[1] :	20 KW PEP	<i>Option 1</i> 15 KW PEP	<i>Option 2</i> 15 KW PEP	8 KW PEP	400 W PEP
<i>Equivalent Output Voltage:</i>	~2850 Vp-p	~2450 Vp-p	~2450 Vp-p	~1800 Vp-p	~400 Vp-p
Level Control:	>30dB	>30dB	>30dB	>30dB	>30dB
Maximum Duty Cycle:	0.6%	0.30%	0.30%	1%	10%
Maximum Pulse Width:	100 microseconds	200 microseconds	100 microseconds	200 microseconds	5 milliseconds
Optimum Frequency Ranges (std.):	50 kHz - 0.5 MHz	50 kHz - 0.5 MHz	250 kHz - 2.5 MHz	250 kHz - 5 MHz	100 kHz - 10 MHz
Optional Frequency Range	0.25 MHz - 1 MHz			50 kHz - 1 MHz	50 kHz - 2 MHz
Bandwidth @ Maximum Output ^[2] :	~1 decade	~1 decade	~1 decade	~1 decade	~2 decades
Internal Diplexer	No	No	No	Yes	Yes
Signal Sources:	Internal Synthesizer or External RF				
Protection:	Over-Current / Temperature / Duty Cycle / Voltage				

Receiver Configuration:	High Frequency Receiver (HFR)	Standard
Maximum Gain:	100dB	100dB
Gain Control:	22-100dB in 0.4dB Steps	22-100dB in 0.4dB Steps
Inputs:	2 (multiplexed)	2 (multiplexed)
High Pass Filters ^[3] :	8	4
Low Pass Filters ^[3] :	8	4
Maximum Bandwidth ^[4] :	50 KHz to 80 MHz	50 KHz to 20 MHz
Input Impedance:	50 Ohms	50 Ohms
Output Impedance:	50 Ohms	50 Ohms

Miscellaneous	
Control:	Manual Controls or Computer Control via RS-232
Packaging:	19" Rack-Mount (4U High)
Dimensions(WHD):	482.6mm x 178mm x 432mm
Weight:	~15 kg

Notes:
[1] PEP(Peak Envelop Power) measured into a 50 Ohm load and calculated by $PEP = V_{peak}^2 / 2R$
[2] Bandwidth @ Maximum Output assumes Min. Frequency no less than 25 KHz, Max Frequency no more than 7 MHz
[3] Filters Values are set to correspond with the Pulse Source's Optimum Frequency Range. Custom Values Available.
[4] Maximum Bandwidth is often constrained through the use of filters.