

Remote Pulser Specifications

For use with JSR Ultrasonics DPR500

<u>RP-L2</u>	<u>LOW FREQUENCY</u>	<u>PULSER</u>	
		Fall Time (max)	8.0 ns
Max PRF	5 kHz.	Pulse Amplitude, neg. going (min)	155 Vp
Energy Level	Low, High	Pulse Width FWHM (max)	125 ns
Voltage DC	275 v – 500 vdc Max	Maximum Energy per Pulse	316.2 μJ
Damping	330, 104, 44, 34 ohms		
		<u>PREAMP</u>	
Echo/Through		Gain @ 10 MHz	6.0 dB
		AmpGain at –3dbHF cut-off (min)	90 MHz
Recommended transducer frequency: 1 – 65 MHz			

<u>RP- H2</u>	<u>HIGH FREQUENCY</u>	<u>PULSER</u>	
		Fall Time (max)	2.6 ns
Max PRF	10 kHz High Energy	Pulse Amplitude, neg. going (min)	185 Vp
Max PRF	20 kHz Low Energy	Pulse Width FWHM (max)	6.5 ns
Voltage DC	330 v – 400 vdc Max	Maximum Energy per Pulse	11.7 μJ
Damping	100, 50, 33, 25 ohms		
		<u>PREAMP</u>	
Echo/Through		Gain @ 100MHz	6.0 dB
		AmpGain at –3dbHF cut-off (min)	260 MHz
Recommended transducer frequency: 40 – 165MHz			

<u>RP-H4</u>	<u>HIGH FREQUENCY</u>	<u>PULSER</u>	
		Fall Time (max)	2.6 ns
Max PRF	10 kHz High Energy	Pulse Amplitude, neg. going (min)	170 Vp
Max PRF	50 kHz Low Energy	Pulse Width FWHM (max)	6.5 ns
Voltage DC	330 v - 380 vdc Max	Maximum Energy per Pulse	10.6 μJ
Damping	100, 50, 33, 25 ohms		
		<u>PREAMP</u>	
Echo/Through		Gain @ 100MHz	6.0 dB
		AmpGain at –3dbHF cut-off (min)	260 MHz
Recommended transducer frequency: 40 – 165 MHz			

Remote Pulser Parameters

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RP- U2	ULTRA HIGH FREQ.	PULSER	
		Fall Time (max)	1.1 ns
Max PRF	20 kHz.	Pulse Amplitude, neg. going (min)	230 Vp
Energy Level	Low, High	Pulse Width FWHM (max)	1.4 ns
Voltage DC	143 vdc	Maximum Energy per Pulse	8.0 μJ
Damping	100, 50, 21, 17 ohms	<u>PREAMP</u>	
		Gain @ 150MHz	6.0 dB
		AmpGain at -3dbHF cut-off (min)	295 MHz
Echo Only		AmpGain at -3dbLF cut-off max)	40 MHz

Recommended transducer frequency: > 100MHz

RP-U4	ULTRA HIGH FREQ.	PULSER	
		Fall Time (max)	1.1 ns
Max PRF	50 kHz.	Pulse Amplitude, neg. going (min)	220 Vp
Energy Level	Low, High	Pulse Width FWHM (max)	1.4 ns
Voltage DC	143 v – 155 vdc Max	Maximum Energy per Pulse	8.0 μJ
Damping	100, 50, 21, 17 ohms	<u>PREAMP</u>	
		Gain @ 150MHz	6.0 dB
		AmpGain at -3dbHF cut-off (min)	295 MHz
Echo Only		AmpGain at -3dbLF cut-off max)	40 MHz

Recommended transducer frequency: > 100MHz

RP-U5	ULTRA HIGH FREQ.	PULSER	
		Fall Time (max)	1.1 ns
Max PRF	50 kHz.	Pulse Amplitude, neg. going (min)	40Vp
Energy Level	Low	Pulse Width FWHM (max)	1.6 ns
Voltage DC	138v – 145 vdc Max	Maximum Energy per Pulse	2.5 μJ
Damping	100, 50, 23, 19 ohms	<u>PREAMP</u>	
		Gain @ 250MHz	12.0 dB
		AmpGain at -3dbHF cut-off (min)	375 MHz
Echo Only		AmpGain at -3dbLF cut-off max)	40 MHz

Recommended transducer frequency: > 100 MHz