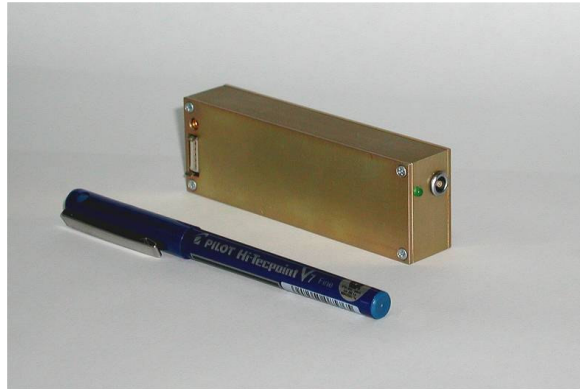


PR-1

**Low Power, Small Size, Low Cost,
Square wave Ultrasonic Pulsar/Receiver**



OVERVIEW

PR-1 is lightweight, small-size, low power and low noise ultrasonic pulser/ receiver unit. These unique features make the PR-1 as an excellent ultrasonic platform for use by OEM's and system Integrators.

TECHNICAL SPECIFICATIONS

(All measurements on 50Ω Load)

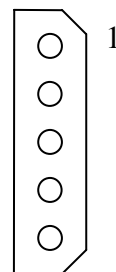
Pulsar	
Pulse width @50% amplitude	Square wave 12nS-50nS (factory setting)
Pulse amplitude	350V max. (factory setting)
Amplitude stability	< ± 2%
Pulse rise time (10-90%)	< 6ns
Pulse fall time (90-10%)	< 4ns
PFR range	100Hz-1,000Hz (external source)
Preamplifier	
Gain	Linear 15dB–30dB (factory setting)
Bandwidth, -3dB	5MHz-35 MHz
Equivalent input noise (rms)	< 4nV/ √Hz
Output swing	1V p-p
Output impedance	50Ω
Sync	
External trigger	TTL level
General	
Dead time	1us (at 80dB gain)
Max. power consumption	0.75W (pulse width=15ns,PRF=1kHz)
Supply voltage	5V-12V
Size	104x34x20mm
Indicators	Power on LED
Enclosure protection	IP 42
Operating temperature range	0-60°C
Connectors:	
XMT, front panel (J1)	Lemo 00, socket
RF OUT (J3)	MMCX socket
Power & Trigger (J2)	Micronector 200

MATING CONNECTORS:

<i>Connector:</i>	<i>Purpose:</i>	<i>Manufacturer:</i>	<i>Mfr. #</i>	<i>Remarks:</i>
P1	Connection to the Ultrasonic Probe	LEMO		Male, series 00
P2	1. Providing power 2. Pulser synchronization	MCMURDO	201F05C01U	MICROCONNECTOR 200 series. See table 1 for pin-out description
P3	RF signal output to digitizer	AMPHENOL	908-41200	for RG-178, 196 cables
			908-41300	for RG-174, 188, 316 cables
			908-41500	for RG-316 cable

Pin No.:	Description:
1	Supply voltage (5-12V)
2	Supply voltage return
3	Synchronization pulse return
4	Spare (do not use)
5	Synchronization pulse (TTL level)

Table 1: P2 Pinout Description



P/N: 201F05C01U

P2 - Front View

About SeBo Technologies

SeBo Technologies design, manufacture and integrate innovative, practical and easy to implement solutions. These solutions provide our customers a fast track to either incorporate technology within their current products, or to simply design a new product range.

By leveraging our expertise we are able to offer products and services to our customers to enable cost effective, rapid time to market solutions.

More Information...

For more information on our products, please use the following contact:

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