

# PreAmplifier

## Ultra-low noise TOFD PreAmplifier



An ultra-low noise, wide bandwidth, fixed-gain 40dB TOFD PreAmplifier, suitable for use with any ultrasonic transducers and system.

The PreAmplifier from Phoenix can be used for TOFD inspections when long probe leads are used and additional gain is required at the front-end. The PreAmplifier will enhance weak signals and improve the effective signal-to-noise of the system. Available as 40dB TOFD 1, 2 or 4 channel.

### Features

- 40dB Gain
- Ultra low noise
- Wide signal bandwidth
- Output capable of driving long cable lengths
- TOFD (twin crystal)
- Low power - single 9V PP3 battery or external 5-12 VDC
- Rugged and small enclosure

### Technical Specification

Amplifier	
Gain	40dB
Bandwidth	80kHz to 40MHz (-3dB)
Noise Figure	1.0nV/(Hz) 1/2
Input Impedance	300Ω (Other options available)
Output Impedance	50Ω (capable of driving very long cable lengths)
Protection	Input and Output are high-voltage transient protected i.e. HT pulse
Power	
Power Source	Single 9VPP3 Battery
Battery Life	16 hours (alkaline)
Input Voltage	5V to 12V DC (reverse polarity protected)
Physical	
Dimensions (W x H x D)	70mm x 35mm 110mm (2 3/4" x 1 1/2" x 4 1/2")
Connectors	Lemo 00
Temperature	0°C to 70°C

### Order Information

Order Code	Description
PRE-AMP-TOFD	40dB TOFD PreAmp 1 channel
PRE-AMP-TOFD-2CH	40dB TOFD PreAmp 2 channel
PRE-AMP-TOFD-4CH	40dB TOFD PreAmp 4 channel



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