

PerCom

31MIT HIGH OUTPUT INERTIAL TRANSDUCER

The 31MIT Inertial Transducer is a device having applications as a receiver or vibrator in communications equipment, speech enhancement equipment, and relaxation systems employing vibration techniques. It is used in applications where a higher output is required than can be obtained from the Teardrop transducer.

It can be used as a bone conduction receiver in direct contact with the skull or, for vibration therapy, other parts of the body. In communications applications it can be attached to a lightweight helmet, effectively using the helmet shell as a loudspeaker.

Physically the device is cylindrical, having a diameter of 31mm and a height of 14.2mm. A mounting clip (pictured) is available as an option.

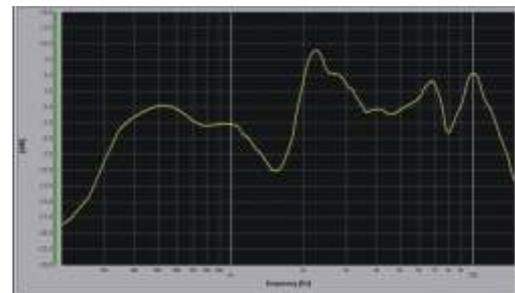
The larger size of the device, when compared to other similar transducers, provides an enhanced low frequency response and higher drive capability.

Unlike many inertial receivers which exhibit a frequency response with a single peak around 1200Hz, the 31MIT transducer has a useful response from 200Hz to 12kHz.



Specifications

Impedance	35 or 100 ohms (nominal), other impedances to special order
Sensitivity, free air	100mW for 0.35G at 500 Hz
Perceived sensitivity*	25mW for 110dB SPL
Max input power (continuous)	200mW
Max input power (50% duty cycle)	350mW
Frequency response	250 - 12000 Hz, refer graph
Directivity pattern	Figure 8, front and back in phase
Weight	18 grams
Connector	IEC No. 5
Colour	Black



Typical frequency response

PerCom 2000 Ltd

P O Box 15437 New Lynn Auckland 0640 New Zealand

Phone +64 9 8277667 Fax +64 9 8270123

sales@percom2000.com www.percom2000.com