

TC 3027

Universal 1MHz Transducer



TC3027

The TC3027 is a Universal 1MHz transducer ideal for sound velocity measurements and short range applications.

FEATURES

- Side lobe suppression better than -21dB
- Small compact housing
- Ideal for watertight installation, due two double o-ring seal.

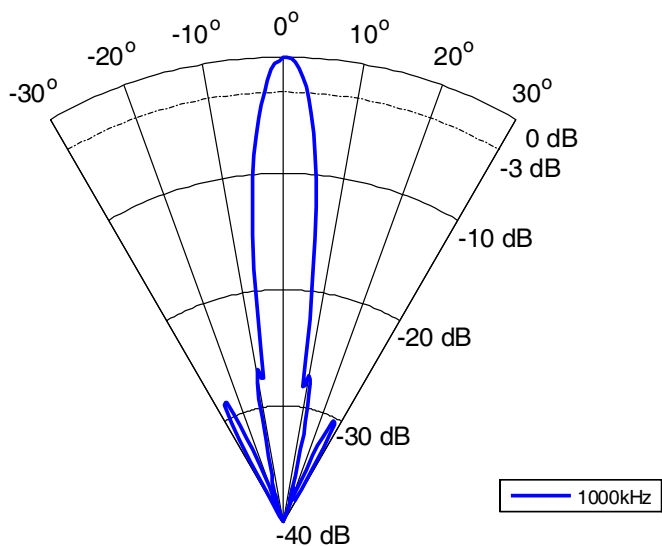
TECHNICAL SPECIFICATIONS

Resonant Frequency:	1MHz
Transmitting Sensitivity:	170dB \pm 3dB at 1Mhz (re 1 μ Pa/V at 1m)
Receiving Sensitivity:	-201dB \pm 3dB at 1Mhz (re 1V/ μ Pa)
Impedance:	160 $^{\circ}$ \pm 60 Ω at 1MHz
Directivity Pattern:	6.0 $^{\circ}$ \pm 0.5 $^{\circ}$
Beam shape:	Conical
Side lobe Suppression:	Better than -21dB
Max input power: (1% duty cycle)	10W
Operating depth:	500m
Survival depth:	800m
Operating temperature range:	-2 $^{\circ}$ C to +50 $^{\circ}$ C
Storage temperature range:	-30 $^{\circ}$ C to +50 $^{\circ}$ C
Cable: (Length and type)	1.5m coax cable RG174/u, pigtail
Housing:	PVC - black
Weight (air) incl. cable:	40g

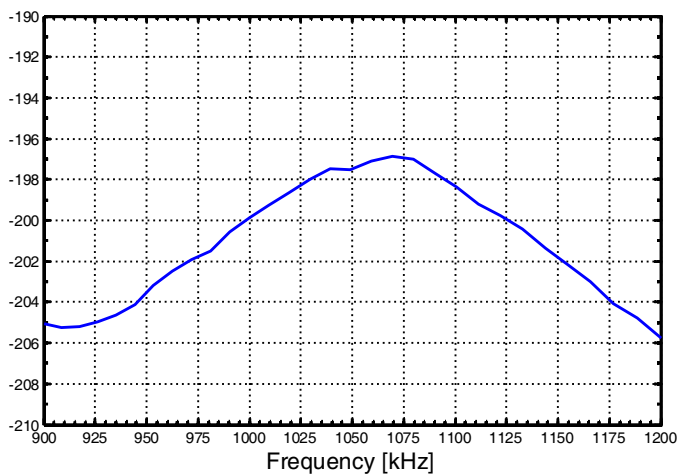
Transducer TC3027

Universal 1MHz Transducer

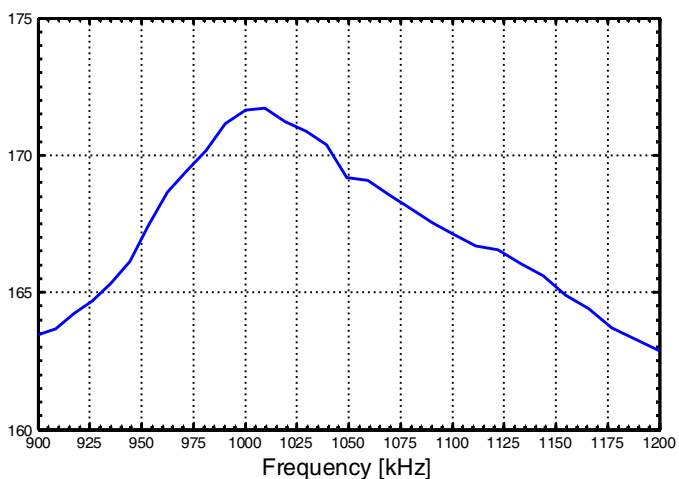
Horizontal Directivity Pattern



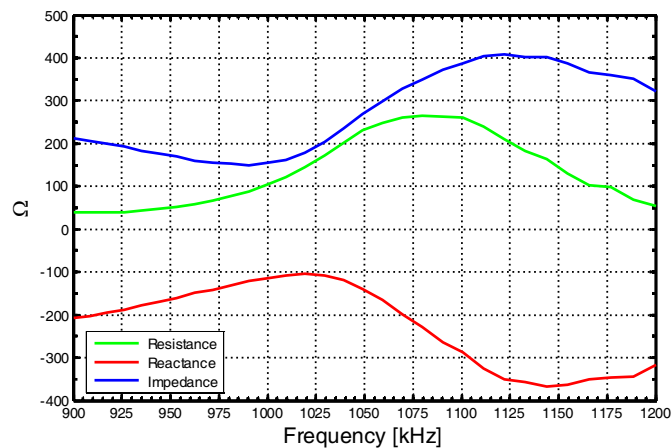
Receiving Sensitivity [dB re 1V/μPa @ 1m]



Transmitting Sensitivity [dB re 1μPa/V @ 1m]



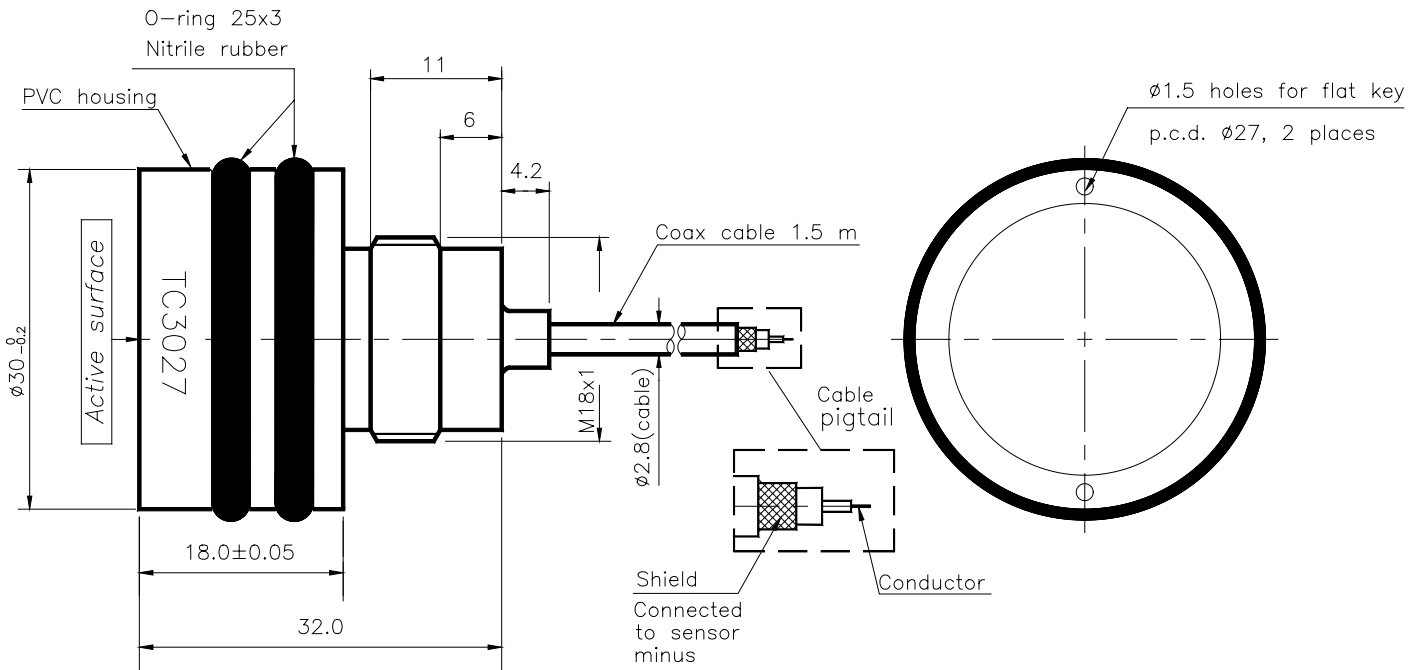
Impedance



Transducer TC3027

Universal 1MHz Transducer

Outline dimensions



For more details visit www.teledyne-reson.com or contact your local Teledyne RESON Office. Teledyne RESON reserves the right to change specifications without notice. 2015@Teledyne RESON

Teledyne RESON A/S

Denmark
Tel: +45 4738 0022
info@teledyne-reson.com

Teledyne RESON Inc.

U.S.A.
Tel: +1 805 964-6260
sales@teledyne-reson.com

Teledyne RESON Ltd.

Scotland U.K.
Tel: +44 1224 709 900
sales@reson.co.uk

Teledyne RESON B.V.

The Netherlands
Tel: +31 (0) 10 245 1500
info@reson.nl

Teledyne RESON GmbH

Germany
Tel: ++49 421 3770 9600
info@teledyne-reson.com

Teledyne RESON Shanghai Office

Shanghai
Tel: +86 21 64186205
shanghai@teledyne-reson.com

Copyright Teledyne RESON. all specification subject to change without notice

www.teledyne-reson.com