General Purpose Vibration Transducers VTI95, VTI96, VTI97

Destination:

- Measuring of vibration and shock acceleration in portative diagnostic systems and during laboratory studies.

Features:

- Piezoelement operation shear circuit.
- Combination of high axial sensitivity and self-resonant frequency.
- Strong structure and hermetically sealed body.
- Stability of characteristics and operational reliability.
- Wide temperature range.



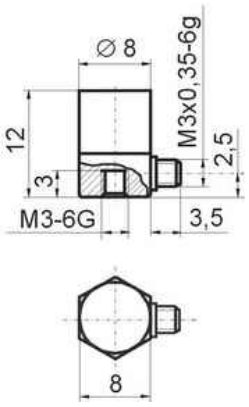
Parameter	Unit	VTI95	VTI96	VTI97
Axial sensitivity (± 20 %)	pC/g[*1]	3	10	10
Relative transverse sensitivity	%	< 5	< 5	< 5
Amplitude range	g[*1]	±1500	±10000	±10000
Max. shock limit (peak value)	g[*1]	±2500	±20000	±20000
Operating temperature range	° C		-70…+250	
Frequency range (ripple ± 1dB)	Hz	1…15000	1…10000	1…10000
Self-resonant frequency in attached condition	kHz	> 50	> 45	> 45
Strain sensitivity	g • m/μm	< 0.001	< 0.001	< 0.001
Capacitance	pF	600…900	800…1 200	800…1200
Insulation resistance in normal conditions	MOhm	> 1000	> 1000	> 1000
Design	-	Shear	Shear	Shear
Bottom insulation	-	no	no	no
Housing material	-	titanium alloy	titanium alloy	titanium alloy
Weight (without connector and cable)	gram	2.6 (1.6)	11 (7)	11 (7)
Supplied accessories	-	cable AK06, stud VTIH0103	cableVTIK04, stud VTIH0105	cable VTIK04, stud VTIH0105

Address:1599 Maritime St. Oakland,Ca 94607,USA

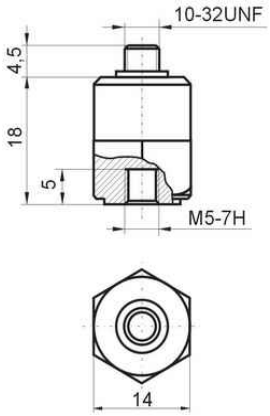
Tel:001-6042885745 Fax:001-510-839-5888 Cell:001-7788299768

Website: www.vti-test.com Email:info@vti-test.com

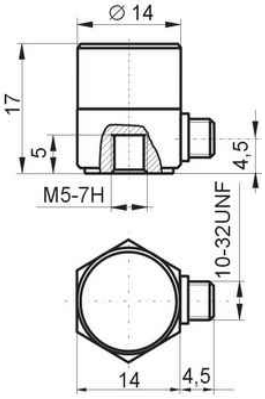
General view of VTI95



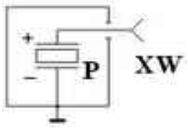
General view of VTI96



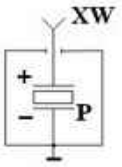
General view of VTI97



Electrical circuit of VTI95, VTI97



Electrical circuit of VTI96



Additional order accessories:

- calibrators VTIT01m (VTIT01m-01), VTIT02;
- charge amplifiers VTI5000, VTIQ02, VTIQ05;
- measuring amplifiers VTI5100, VTI5200;
- adapter box VTIG01 (in set with charge amplifier VTI5000);
- cables VTIK01, VTIK02, VTIK03, VTIK04, VTIK05, VTIK07, VTIK08, VTIK09, VTIK10, VTIK11;
- connector adapters AR01, AR04;
- probe tip VTIN01;
- wax for mounting VTIW01;
- magnet mounting bases VTIM01, VTIM03, VTIM04;
- stud VTIH0805;
- insulating stud VTIH1005.

*1 – 1g = 9.807 $m \cdot s^{-2}$ or 10 $m \cdot s^{-2}$ = 1.02 g.

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