

## General Purpose Vibration Transducers VTI24 (VTI24-01), VTI37, VTI39

### 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.
- Can be used for the modal analysis.



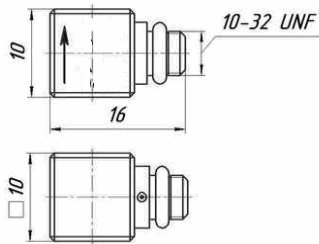
Parameter	Unit	VTI24* <sup>3</sup>	VTI24-01* <sup>3</sup>	VTI37* <sup>3</sup>	VTI39
Axial sensitivity ( $\pm 20\%$ ).....	pC/g* <sup>1</sup>	3		10	20
Relative.....	%	< 5		< 5	< 5
transverse sensitivity					
Amplitude range .....	g* <sup>1</sup>	$\pm 3000$		$\pm 10000$	$\pm 5000$
Max. shock limit (peak value)....	g* <sup>1</sup>	$\pm 6000$		$\pm 15000$	$\pm 10000$
Operating temperature range.....	$^{\circ}$ C	-60...+150		-60...+ 150	-60...+ 150
Frequency range (ripple $\pm 1$ dB).....	Hz	1...10000		0.5...15 000	0.5...10 000
Self-resonant frequency in attached condition.....	kHz	> 30		> 45	> 35
Strain sensitivity.....	g • m/ $\mu$ m	< 0.0005		< 0.005	< 0.02
Capacitance.....	pF	600...900		600...800	600...800
Insulation resistance in normal conditions.....	MOhm	>10000		>10000	>10000
Design.....	-	Shear		Shear	Shear
Bottom insulation.....	-	no		no	no
Housing material.....	-	aluminium alloy		st./steel (titanium alloy)* <sup>2</sup>	st./steel (titanium alloy)* <sup>2</sup>
Weight(without connector and cable).....	gram	4.5		12 (9)	17 (12)

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

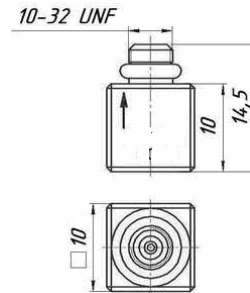
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Website: [www.vti-test.com](http://www.vti-test.com) Email:info@vti-test.com

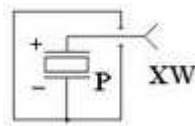
General view of VTI24



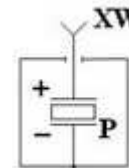
General view of VTI24-01



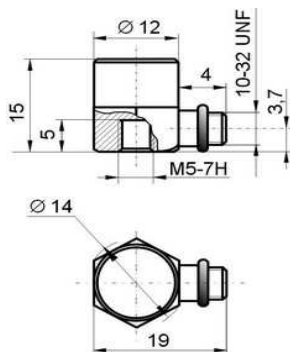
Electrical circuit of VTI24



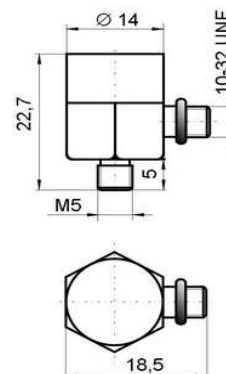
Electrical circuit of VTI24-01



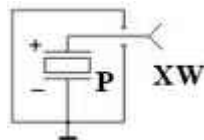
General view of VTI37



General view of VTI39



The typical electrical circuit of VTI37, VTI39



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**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 VTIR01, VTIR04;
- probe tip VTIN01;
- wax for mounting VTIW01;
- magnet mounting bases VTIM01, VTIM03, VTIM04, VTIM05, VTIM08;
- stud VTIH0805;
- insulating stud VTIH1005.

\*<sup>1</sup> -  $1g = 9.807 \text{ m} \cdot \text{s}^{-2}$  or  $10 \text{ m} \cdot \text{s}^{-2} = 1.02 \text{ g}$ ;

\*<sup>2</sup> - to be determined when making out an order;

\*<sup>3</sup> - has been entered in State list of measuring means.

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