

General Purpose Vibration Transducers VTI57, VTI58

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.



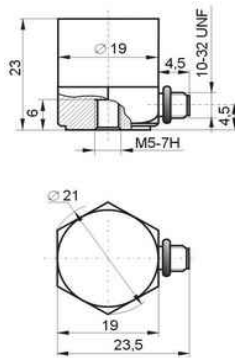
Parameter	Unit	VTI57 *3	VTI58
Axial sensitivity ($\pm 20\%$).....	pC ^{*1} /g	80	80
Relative transverse sensitivity.....	%	< 5	< 5
Amplitude range.....	g ^{*1}	± 2000	± 500
Max. shock limit (peak value).....	g ^{*1}	± 4000	± 1000
Operating temperature range.....	° C	-60...+150	-40...+150
Frequency range (ripple ± 1 dB).....	Hz	0.5...8000	0.5...5000
Self-resonant frequency in attached condition.....	kHz	> 20	> 15
Strain sensitivity.....	g • m/ μ m	< 0.005	< 0.05
Capacitance.....	pF	700...1000	700...1000
Insulation resistance in normal conditions.....	MOhm	> 10000	> 10000
Design.....	-	Shear	Shear
Housing material.....	-	st./steel(titanium st./steelalloy) ^{*2}	
Weight (without connector and cable).....	gram	40 (32)	65
Supplied accessories.....	-	cable VTIK04, stud VTIH0105	cable VTIK36, stud VTIH0105

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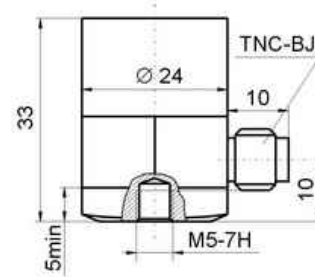
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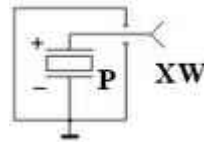
General view of
VTI57



General view of
VTI58



The typical electrical circuit of VTI57, VTI58



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.

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

*2 - to be determined when making out an order;

*3 - has been entered in State list of measuring means.

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