



PUNDIT®
ULTRASONIC TRANSDUCERS
DATA SHEETS



Swiss solutions since 1954

24 kHz Transducer

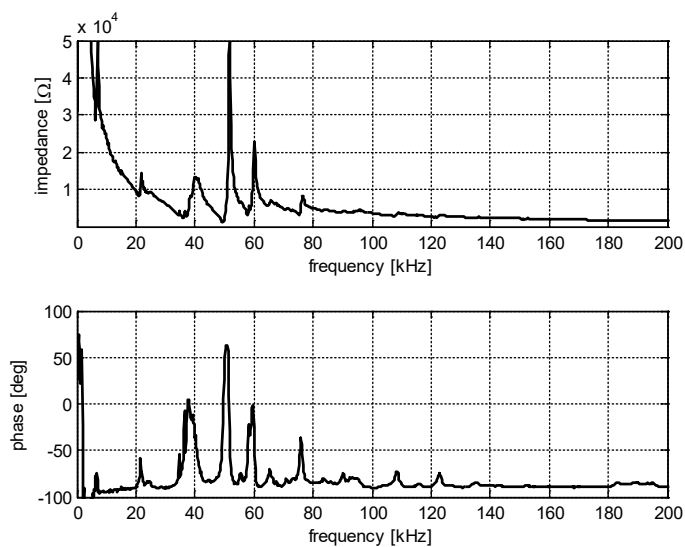
Part No.: 325 40 026

Specifications

Type:	Single-Crystal
Frequency:	24 kHz $\pm$ 5 kHz
Bandwidth:	<5 kHz
Driving voltage:	-1000 V to +1000 V
Matching inductance:	absent
Piezo electrical cell capacity:	450 pF
Connector type:	BNC
Operating temperature:	-20° C...+60° C
Contact surface diameter:	50 mm
Dimensions:	Diameter: 50 mm Length (without BNC connector): 95.2 mm Length (including BNC connector): 107.2 mm
Weight:	1325 g



Electrical Impedance



NOTE! The technical specifications are based on averaging the measurements carried out with 10 Transducers.

54 kHz Exponential Transducer

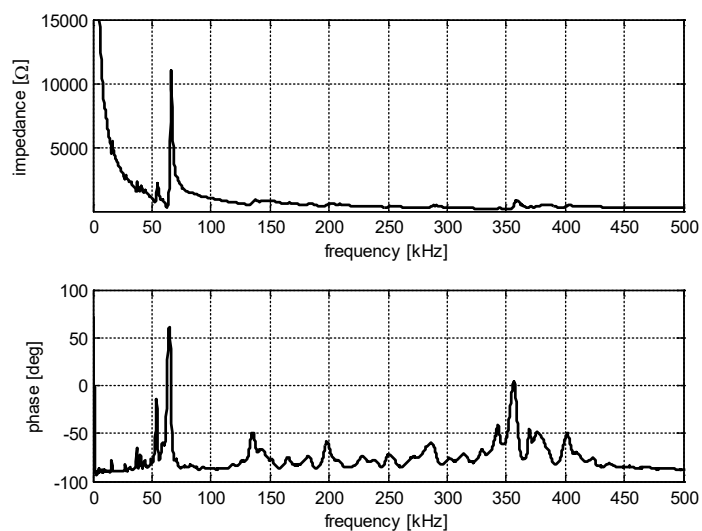
Part No.: 325 40 176

Specifications

Type:	Single-Crystal
Frequency:	54 kHz $\pm$ 5 kHz
Bandwidth:	<10 kHz
Driving voltage:	-1000 V to +1000 V
Matching inductance:	absent
Piezo electrical cell capacity:	2 nF
Connector type:	BNC
Operating temperature:	-20° C...+60° C
Contact surface diameter:	4 mm
Dimensions:	Diameter: 49.7 mm Length (without BNC connector): 99.43 mm Length (including BNC connector): 111.43 mm
Weight:	244 g



Electrical Impedance



NOTE! The technical specifications are based on averaging the measurements carried out with 10 Transducers.

54 kHz Transducer

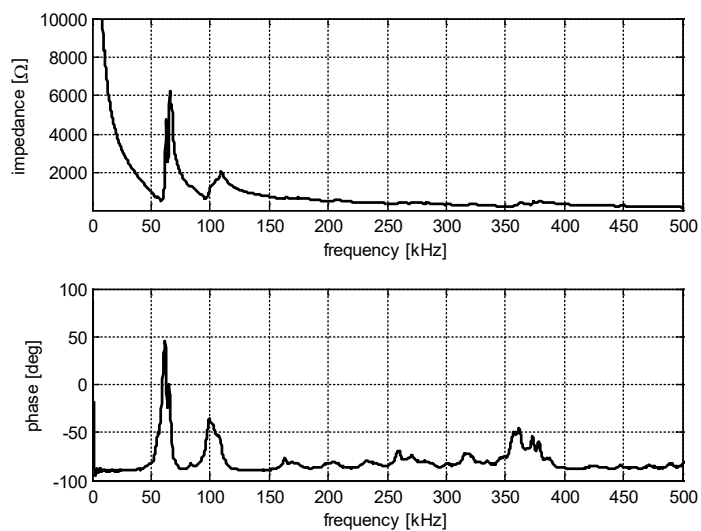
Part No.: 325 40 131

Specifications

Type:	Single-Crystal
Frequency:	54 kHz $\pm$ 5 kHz
Bandwidth:	<10 kHz
Driving voltage:	-1000 V to +1000 V
Matching inductance:	absent
Piezo electrical cell capacity:	2 nF
Connector type:	BNC
Operating temperature:	-20° C...+60° C
Contact surface diameter:	36.77 mm
Dimensions:	Diameter: 49.7 mm Length (without BNC connector): 46 mm Length (including BNC connector): 58 mm
Weight:	287 g



Electrical Impedance



NOTE! The technical specifications are based on averaging the measurements carried out with 10 Transducers.

150 kHz Transducer

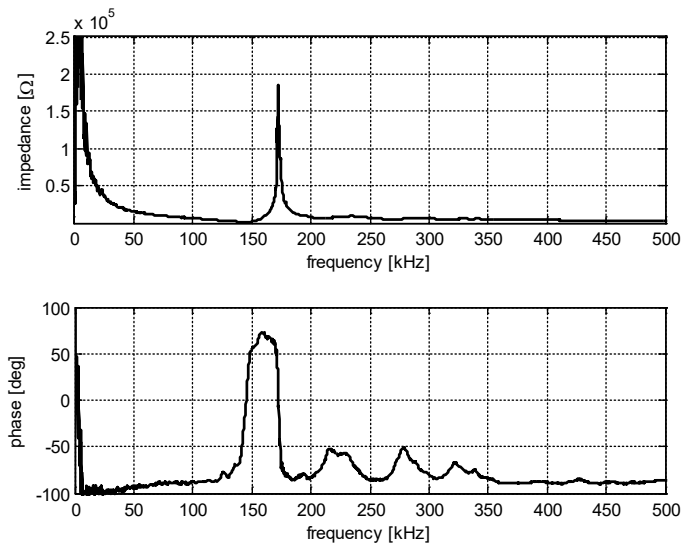
Part No.: 325 40 141

Specifications

Type:	Single-Crystal
Frequency:	150 kHz $\pm$ 10 kHz
Bandwidth:	<10 kHz
Driving voltage:	-1000 V to +1000 V
Matching inductance:	absent
Piezo electrical cell capacity:	245 pF
Connector type:	BNC
Operating temperature:	-20° C...+60° C
Contact surface diameter:	22.27 mm
Dimensions:	Diameter: 28 mm Length (without BNC connector): 46 mm Length (including BNC connector): 58 mm
Weight:	63 g



Electrical Impedance



 NOTE! The technical specifications are based on averaging the measurements carried out with 10 Transducers.

250 kHz Transducer

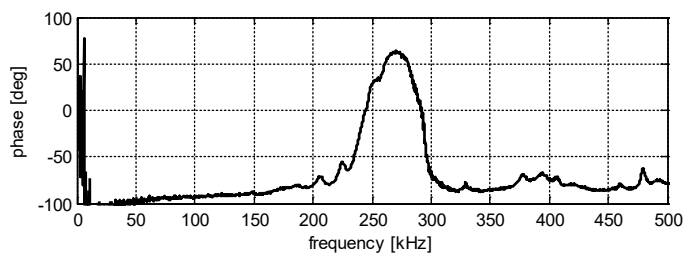
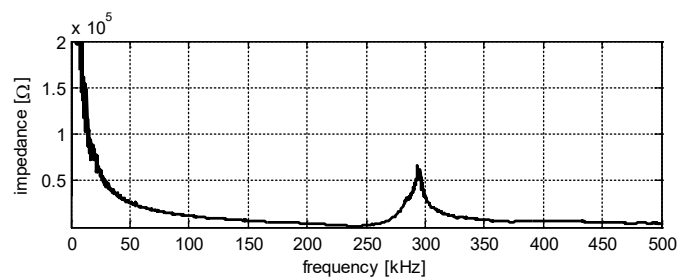
Part No.: 325 40 177

Specifications

Type:	Single-Crystal
Frequency:	250 kHz $\pm$ 10 kHz
Bandwidth:	<20 kHz
Driving voltage:	-1000 V to +1000 V
Matching inductance:	absent
Piezo electrical cell capacity:	122 pF
Connector type:	BNC
Operating temperature:	-20° C...+60° C
Contact surface diameter:	22.27 mm
Dimensions:	Diameter: 28 mm Length (without BNC connector): 46 mm Length (including BNC connector): 58 mm
Weight:	58 g



Electrical Impedance



NOTE! The technical specifications are based on averaging the measurements carried out with 10 Transducers.

40 kHz Dry-Point Shear Wave Transducer

Part No.: 325 40 210

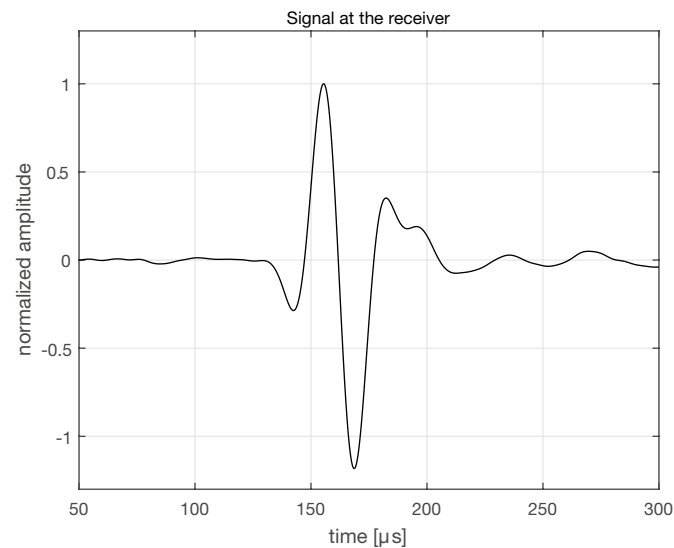
Specifications

Type:	5 x Dual-Crystal, dry-point contact
Frequency:	40 kHz $\pm$ 4 kHz
Bandwidth:	35 – 40 kHz
Driving voltage:	-200 to +200 V
Matching inductance:	absent
Piezo electrical cell capacity:	5 x 0.6 nF
Connector type:	BNC
Operating temperature:	0...+50° C
Contact surface diameter:	5 x 2 mm
Diameter:	84 mm
Length:	114 mm
Weight:	340 g
Wave type:	Shear wave



Experimental setup

- POM-C test block with a thickness of 126 mm
- **UPV Settings:** Transducer frequency: 40 kHz. Pulse voltage: 50 V, square wave. Gain: 500. Range: Short range



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