

Ultrasonic Transducers 62KHz (S Wave) – Point Contact

Description

CAN-62-S Ultrasonic Transducers are Piezoelectric Transducers with **Point Contact**, used for **Shear Wave** testing in Low Frequency Non-Destructive Testing (NDT) applications. The nominal resonance frequency of CAN-62-S is 62KHz.

These transducers are useful for **Dry Point Contact** testing applications. The point contact is useful when it is not possible to apply any coupling medium on the surface of the material under test due to its porous nature or due to uneven surface.

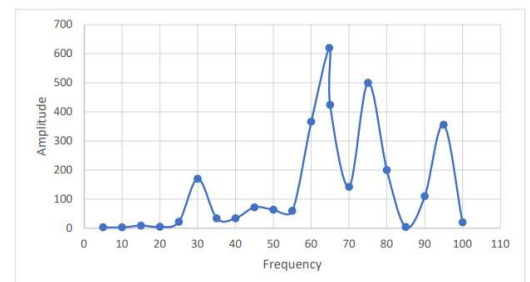
When used as Transmitters (Tx), the CAN-62-S transducers generate Shear Waves (S-Waves) for coupling into the test specimen. When used as Receivers (Rx), the CAN-62-S exhibit highest sensitivity levels to incident 62KHz S-wave signals.

Typically, the CAN-62-S transducers find use in Transmit-Receive (T/R) type NDT testing applications, where a pair of these transducers is used with the Ultrasonic Testing Instrument. Performance of CAN-62-S transducers is best suited for use with Ultrasonic Tone Burst type excitation at resonance frequency.



Specifications

Element	Piezoelectric Ceramic
Transducer Type	Shear Wave (S Wave)
Center Frequency	62 KHz, ± 5 KHz
Frequency Range (3 dB)	58 to 68 kHz
Max Excitation Voltage	$< \pm 1000$ V
Operating Temperature Range	-10 to +50 Deg. C
Dimensions.	
Without Handle	48 mm Dia X 102 mm H
With Handle	54 mm Dia X 165 mm H
Weight	600 grams
Case Material	Aluminum
Connector	BNC
Connector Locations	Side



APPLICATIONS

Ultrasonic Non-Destructive Testing of Non-Homogeneous materials & other Coarse-Grained materials, Testing of,

- Concrete Structures
- Rocks
- Ceramics, Refractories
- Wood, Timber
- Composite Materials
- Graphites, etc.



Related Products

- Ultrasonic Pulse Velocity (UPV) Testing Equipment.
Models: CUTE103A & CUTE102X0
- Ultrasonic Pulser-Receiver with High Voltage Tone Burst Capability.
Model: CUTE104A



- ✓ Transducers Frequency Range : 24KHz – 500 KHz
- ✓ Immersion Transducers for Under Water Testing Applications
- ✓ NEW: Receiver Probes with In-built Pre-Amplifier (26dB Gain)

Ordering information and Accessories

CAN-62-S	CAN-62-S
Cable (specify length '-XX' m at end of Part No.)	1 m
Pre-Amplifier	0/2/4, 2/4/6

About Us

CANOPUS INSTRUMENTS is engaged in the development & manufacturing of industrial automation and process control instrumentation products. The product areas cover mainly Analog Signal Conditioning Instruments for Process Automation, Embedded Systems & Ultrasonic Equipment for Non-Destructive Testing Applications.

All the CANOPUS range of products are designed and manufactured with special care, to ensure trouble free performance in Industrial applications where Electromagnetic Interference (EMI) & Harsh environmental conditions exist.

Today these products come to our customers with the quality assurance and tech-support in H/W & S/W, which has evolved with our experience of over 25 years, to ensure uninterrupted operation in field conditions. This has enabled us to successfully create an installed base of tens of thousands of units performing satisfactorily in a wide spectrum of Critical Real time Industrial applications all over India and in other parts of the world.

INNOVATION – QUALITY- RELIABILITY



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