

Ultrasonic Transducers 54KHz (P Wave)

Description

CAN-54-P Ultrasonic Transducers are Piezoelectric Transducers used for Low Frequency Non-Destructive Testing (NDT) applications. The nominal resonance frequency of CAN-54-P is 54KHz.

When used as Transmitters (Tx), the CAN-54-P transducers generate Longitudinal Waves (P-Waves) for coupling into the test specimen.

When used as Receivers (Rx), the CAN-54-P exhibit highest sensitivity levels to incident 54KHz P-wave signals.

Typically, the CAN-54-P 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. These sensors feature a lightweight & rugged Aluminum body with BNC connector for Co-axial Cable connection.



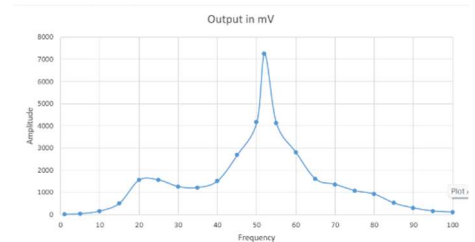
WITHOUT HANDLE



WITH HANDLE

Specifications

Sensing Element	Piezoelectric Ceramic
Transducer Type	Longitudinal Wave (P Wave)
Center Frequency	54 KHz, ± 3 KHz
Frequency Range (3dB)	50 to 60 kHz
Max Excitation Voltage	< ± 1000 V
Operating Temperature Range	-10 to +50 Deg. C
Dimensions.	
Without Handle	48 mm Dia X 72 mm H
With Handle	54 mm Dia X 136 mm H
Weight	460 grams (Approx)
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 Pulsar-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-54-P	CAN-54-P
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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MADE IN INDIA