

Tel: 1-800-722-8197 1-631-595-2217 Fax: 1-631-667-5484 EMAIL: sales@challelec.com WEB: www.challengeelectronics.com ISO 9001/14001:2015 Certified

INDICATORS • SPEAKERS • SOUND TRANSDUCERS • ENCLOSURES • MICROPHONES • BATTERY ACCESSORIES

CT11U-400T4000-D1X

Rev. 0-2024 RoHS3 & REACH IP67 Ultrasonic Sound Transducers

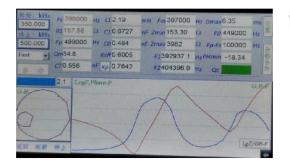


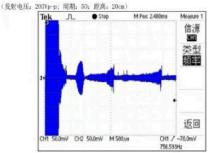
Operating Characteristics

ELECTRICAL

Operating Mode Transmitter / Receiver Max Operating Voltage 400 Vp-p Capacitance 500 pF ± 30 % 1000 Hz SUSTIC 400,000 ± 15,000 Hz Beam Angle 7 ± 2° (-6 dB) Detectable Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz Echo ≥200 mV		
Capacitance $500 \text{ pF} \pm 30 \text{ %}$ BUSTIC $f \circ \qquad 400,000 \pm 15,000 \text{ Hz}$ Beam Angle $7 \pm 2^{\circ} (-6 \text{ dB})$ Detectable Range $0 \text{ to } 80 \text{ cm}$ Ring Time $\leq 290 \text{ us}$ Test Conditions $200 \text{ Vpp}, 400,000 \text{ Hz}$	Operating Mode	
toustic fo 400,000 ± 15,000 Hz Beam Angle 7 ± 2° (-6 dB) Detectable Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz	Max Operating Volta	age 400 Vp-p
fo $400,000 \pm 15,000 \text{ Hz}$ Beam Angle $7 \pm 2^{\circ}$ (-6 dB) Detectable Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz	Capacitance	
Beam Angle 7 ± 2° (-6 dB) Detectable Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz		
Angle 7 ± 2° (-6 dB) Detectable Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz	<u>f</u> o	400,000 ± 15,000 Hz
Range 0 to 80 cm Ring Time ≤290 us Test Conditions 200 Vpp, 400,000 Hz		7 ± 2° (-6 dB)
Test Conditions 200 Vpp, 400,000 Hz		0 to 80 cm
Conditions 200 Vpp, 400,000 Hz	Ring Time	≤290 us
Echo ≥200 mV		200 Vpp, 400,000 Hz
	Echo	≥200 mV

Test Plate 100×100 mm PVC, 10 cm





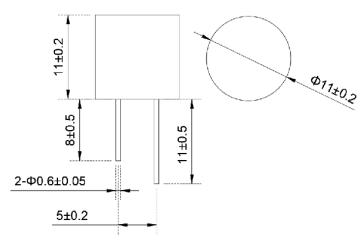
Frequency(kHz)

Sensitivity

Physical Characteristics

Test

MATERIAL Housing Aluminum PC Pin Brass, Tin Plated TEMPERATURE RANGES Operating -40 to +80°C Storage -40 to +85°C Weight 10 g



General tolerance = ± 0.2 mm and all measurements in mm unless otherwise noted.

Revision	Description	Ву	Date
0-2024	Original Specification	JL	2024-09-23

Warranty: For a period of one (1) year from date of shipping under normal operations conditions. This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair.

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.



Tel: 1-800-722-8197 1-631-595-2217 Fax: 1-631-667-5484 EMAIL: sales@challelec.com WEB: www.challengeelectronics.com ISO 9001/14001:2015 Certified

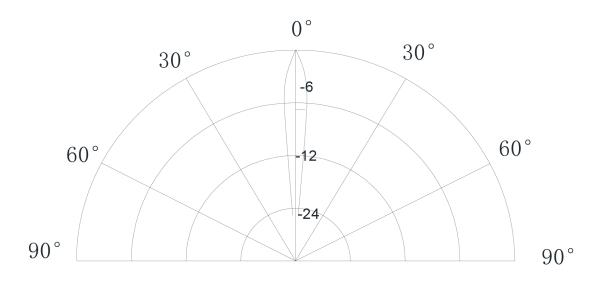
INDICATORS • SPEAKERS • SOUND TRANSDUCERS • ENCLOSURES • MICROPHONES • BATTERY ACCESSORIES

CT11U-400T4000-D1X

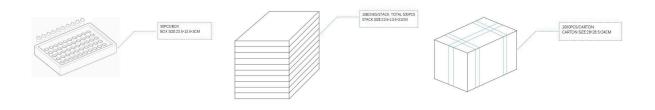
Rev. 0-2024 RoHS3 & REACH IP67 Ultrasonic Sound Transducers



Beam Directivity



Packaging



Revision	Description	Ву	Date
0-2024	Original Specification	JL	2024-09-23

Warranty: For a period of one (1) year from date of shipping under normal operations conditions. This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair.

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.

©2024 Challenge Electronics, Inc. Pub. 20240924095728