CHALLENGE ELECTRONICS

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

CT10U-30S400-1

Rev. 1-2022
RoHS3 & REACH
Ultrasonic Sound Transducers

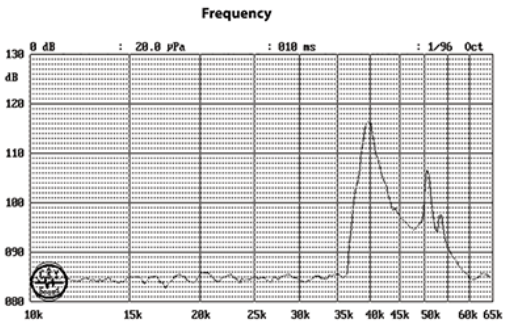
Operating Characteristics

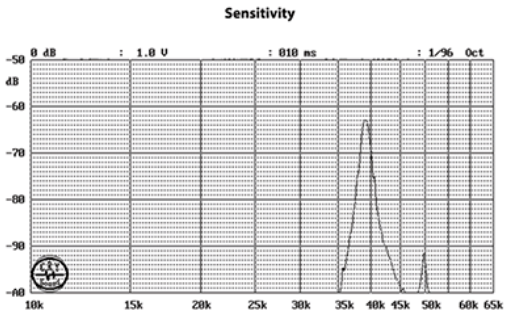
ELECTRICAL

Operating Mode	Transmitter / Receiver
Rated Voltage	10 Vp-p
Max Operating Voltage	30 Vp-p
Capacitance	10000 pF ± 25 %
Current	250 mA

ACOUSTIC

Min SPL at V Rated	111 dB
SPL Test Conditions	30 cm
Sensitivity	-65 ± 3 dBV/Pa
f_o	40000 Hz
Beam Angle	80° Max
Detectable Range	20 to 150 cm





Physical Characteristics

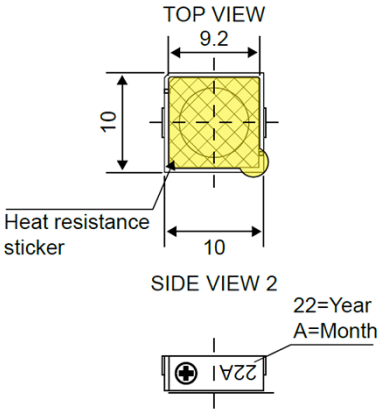
MATERIAL

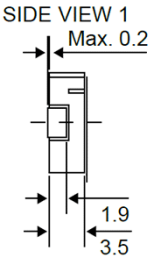
Housing	Plastic
Diaphragm	Al
Solder Pads	Tin Plated Copper

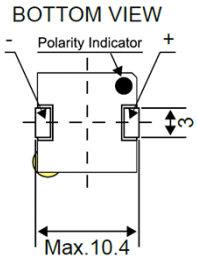
TEMPERATURE RANGES

Operating	-30 to +80 °C
Storage	-40 to +85 °C

Weight	0.9 g







All measurements are mm and general tolerance are ±0.5 unless noted otherwise.

Revision	Description	By	Date
0-2022	Original Specification	CT	2022-01-28
1-2022	Updated mechanical drawing. Added polarity indicator. Updated photo.	CT	2022-04-14

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.

©2022 Challenge Electronics, Inc. Pub. 20220414151738