
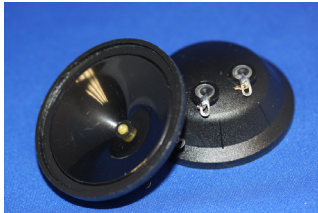
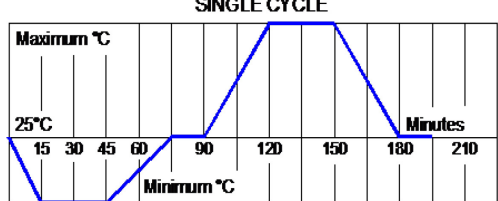
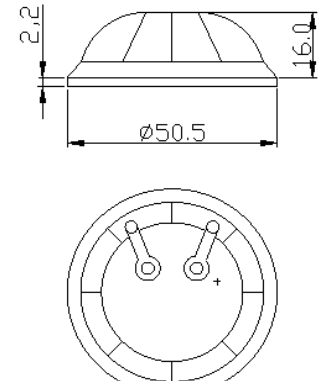
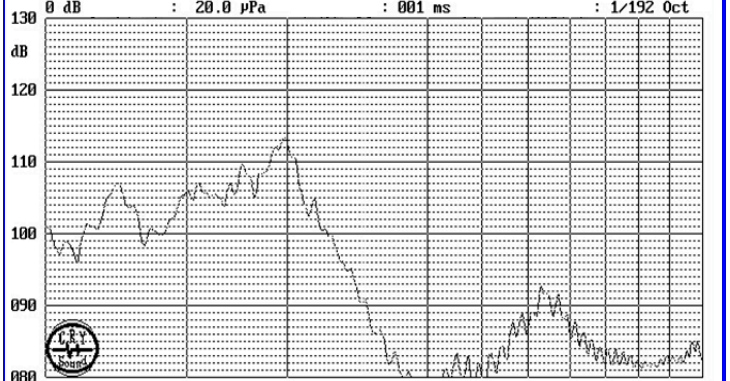




PRODUCT INFORMATION						
PART #:		CEUT505A182-110-20TR			Revision: 1-2015	
		Ultrasound Transmitter				
DESCRIPTION			FEATURES			
Challenge Electronics Piezoelectric Ultrasound Transmitter; 50.5 mm Diameter; I style case (Round w/Mounting Flange); 18.2 mm High; 1 to 10 Vp-p Operating Voltage; 20 KHz. Resonant Frequency; minimum Sound output of 90 dB(A) min at 30 cm at Rated Voltage; Solder Tab Termination, RoHS, Lead Free and REACH Compliance			<ul style="list-style-type: none"> ● RoHS, Lead Free Compliant ● REACH Compliant ● ISO 9001 Certified 			
SPECIFICATIONS						
Operating Voltage		1- 10 Vp-p	Nominal Rated Voltage	2.83 Vp-p	Resonant Frequency	20 ± 5 KHz.
Sound Pressure Level		Minimum 90 dB(A), at: 30 cm, Resonant Frequency, Nominal rated Voltage, Square Wave 50% Duty Cycle				
Operating Temperature		-20°C to +60°C	Storage Temperature	-30°C to + 70°C	Capacitance	68nF ± 30%
Material	Housing	ABS Plastic		Sound Port Direction	Top	
	Cone	Mylar		Encapsulation	Plastic	
	Termination	Solder Tab				
	Mounting					
Physical Dimensions			Diameter (D)	50.5 mm ± 0.5 mm	Height (H)	18.2 mm ± 0.5 mm
Approximate Weight		10 grams		Compliance	RoHS, Lead Free and REACH	
Packaging						
RELIABILITY						
Thermal Storage Temperature Test		36 hours at Maximum Storage Temperature *				
		36 hours at Minimum Storage Temperature *				
Thermal Shock Test		10 cycles of Minimum and Maximum Operating Temperature Each cycle shall be set per diagram and is 3 hours long **				
Humidity Test		36 Hours at +40°C±2°C, 90-95% RH **				
Vibration Test		1 Hours of at 1.5 mm with 10 to 55 Hz. vibration frequency to each of 3 perpendicular directions *				
Termination Strength		Maximum of 2.45 N (0.25 Kg) load pull test, applied to each terminal in axial direction for 10 seconds				
Drop Test		Dropped naturally from 750 mm height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times (9 times total) *				
Reliability Test Performance		Parts should conform to original performance within *±3dB, **±6dB after 24 hours of recovery period				
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				



DIMENSIONS	FREQUENCY RESPONSE CURVE
<p>Units in: mm Tolerance: ±0.5 mm</p> 	

RECOMMENDED CIRCUIT DRIVE	
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<p>SUBSTANCE OF VERY HIGH CONCERN</p> <p>This product does NOT contain any of the REACH Substances of Very High Concern (SVHC), and is in compliance with European Union REACH Regulation No.1907/2006 regarding chemical substances which must be registered or disclosed.</p>

PACKAGING			
	MARKING		
	Reel		
	Part Number		
	Quantity	Tray	
	Lot and/or Date Code	X	cm
	Shipping Box	Dimensions	
	Part Number	Y	cm
	Customer PN (if required)	Z	cm
	Quantity	Quantity	
	Quantity	Shipping Box	
	Lot and/or Date Code	X	41 cm
	PO Number	Y	30 cm
	Net Weight	Z	57 cm
	Gross Weight	Number of Trays	
	Box Number of Boxes	Quantity	
		Approximate Weight	
	Made in	China	
Revision	Description	By:	Date:
1-2015	Height corrected in the description section only	W. Sargent	2/23/2015