

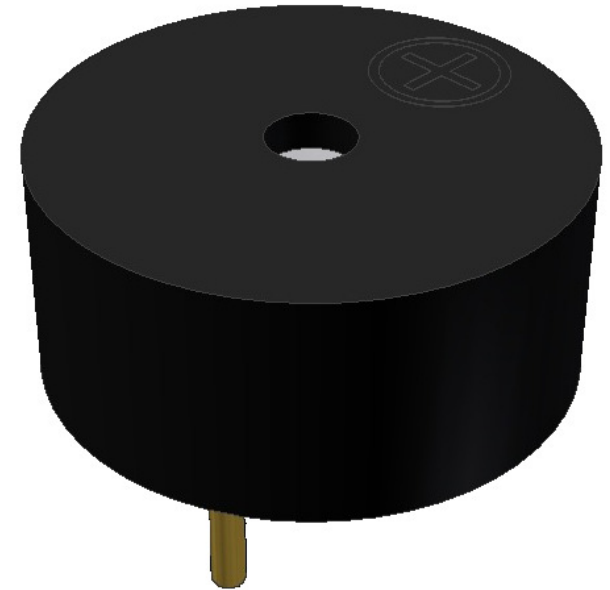
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AT-0927-TT-2-R 9mm Transducer

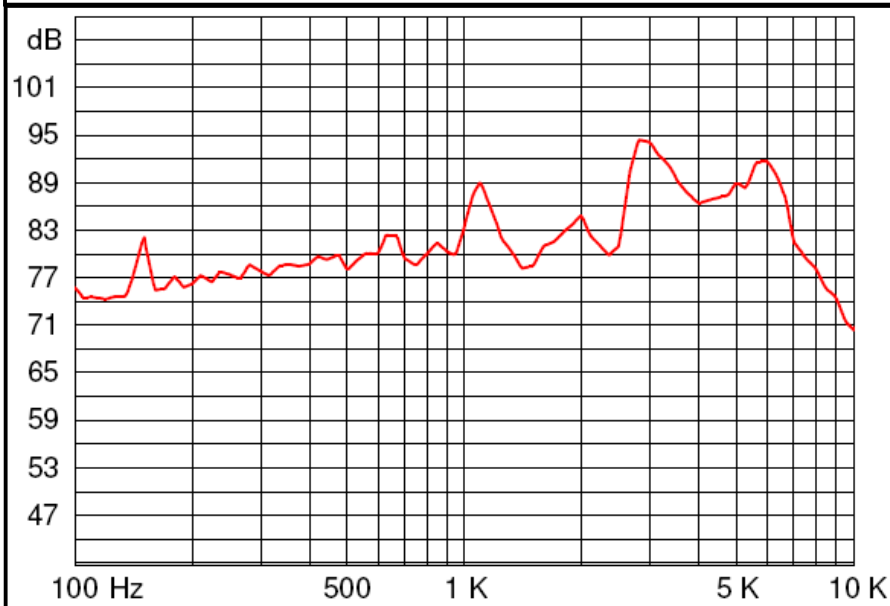
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- Small 9mm diameter electro-mechanical transducer
- 86 dBA minimum output (3 Vp-p @ 10 cm) and 2,730 kHz resonant frequency
- PBT housing withstands Wave soldering temperatures
- Through-hole design for quick PCB placement

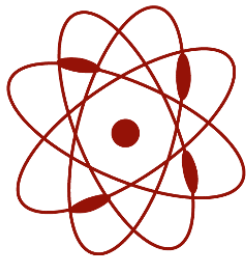


Frequency Response (3 Vp-p @ 0.1 meters)



RoHS COMPLIANT BY DESIGN





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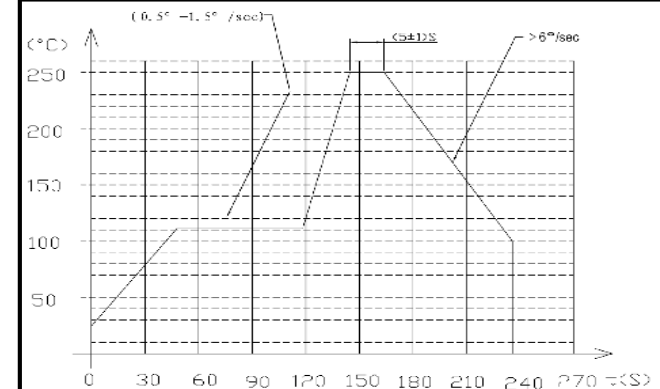
AT-0927-TT-2-R 9mm Transducer

Mechanical and Environment Testing

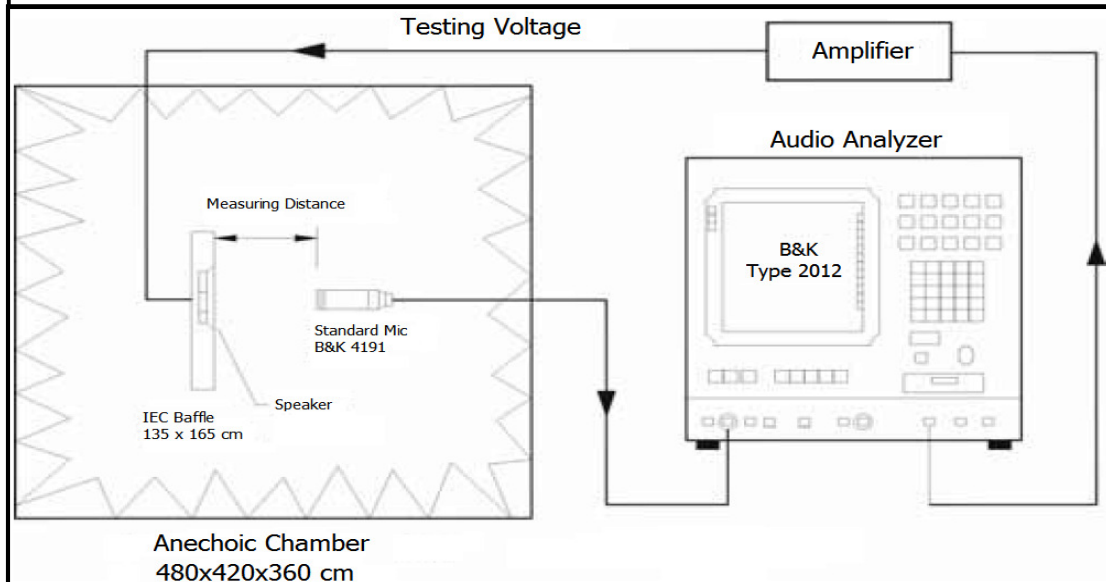
Test Description	Test Condition
High Temperature	80°C (±2°C) with random humidity for 96 hours
Low Temperature	-30°C (±2°C) with random humidity for 96 hours
Humidity	25°C to 80°C with 90% to 95% relative humidity for 24 hours
Vibration	1.5 mm movement modulated at 10-55 Hz, 3 axis, for 2 hours
Drop Test	75 cm free fall onto 40 mm wood board, 3 axis, 3 cycles per axis
Temperature Cycle Test	-30°C to 80°C, 100 cycles

After tests, part shall rest for 4 hours. SPL shall be within ±10 dB of original measurement.

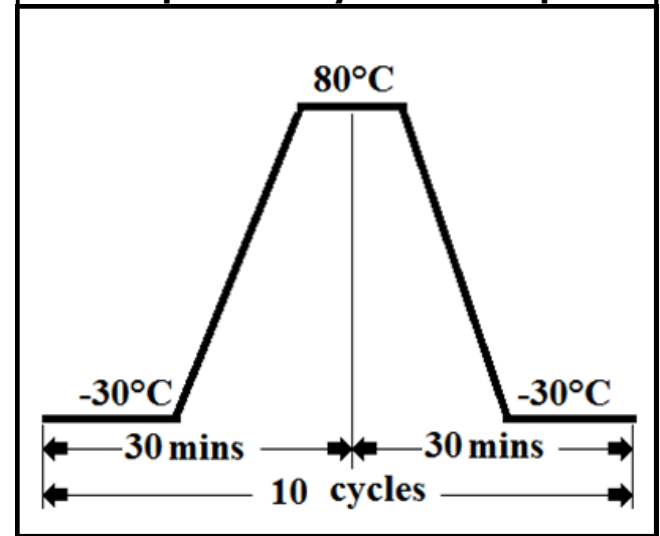
Wave Solder Profile



Frequency Response and SPL Measurement Setup



Temperature Cycle Test Graph



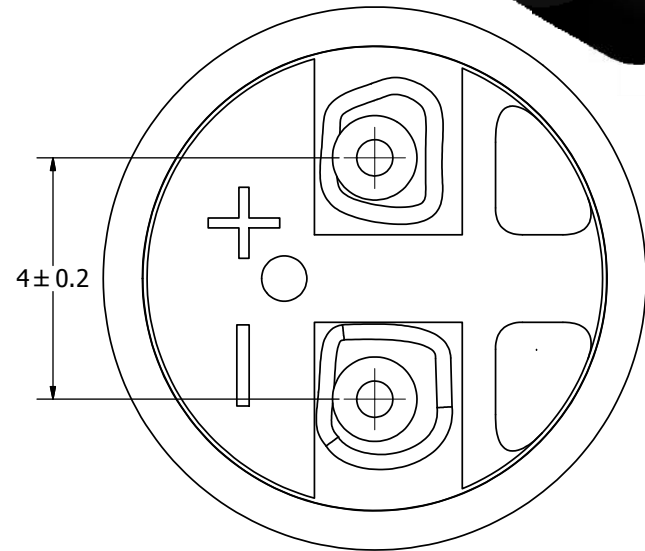
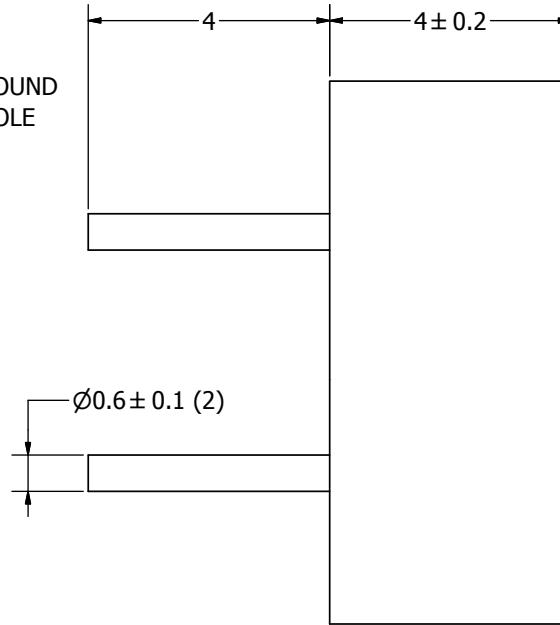
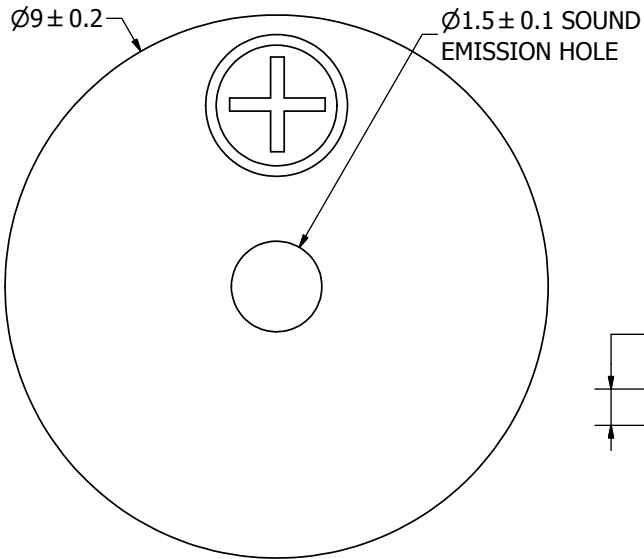
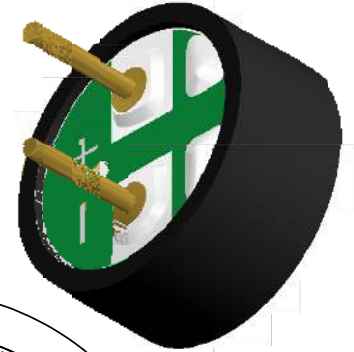
SPECIFICATIONS

PARAMETERS	VALUES	UNIT
RATED VOLTAGE	3	Vp-p
OPERATING VOLTAGE RANGE	2 ~ 4	Vp-p
RATED CURRENT (MAX)	70	mA
COIL RESISTANCE	20 ± 3	OHM
MINIMUM SPL @ 10 CM	86	dBA
RESONANT FREQUENCY	2,730 ± 500	Hz
OPERATING TEMPERATURE	-20 ~ +70	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	PBT	-
TERMINAL MATERIAL	Au PLATED PHOSPHOR BRONZE	-
WEIGHT	0.7	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/5/2005	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/1/2008	B.R.



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE A3	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.A.F.	8/5/2005	E.P.	8/5/2005	B.R.	8/5/2005	4/1/2008
AT-0927-TT-2-R.idw		 AT-0927-TT-2-R Transducer (Electro-Mech)				Edition	Sheet	
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