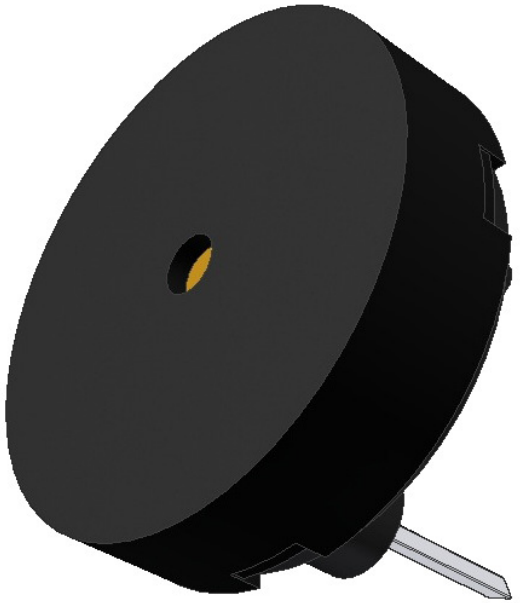
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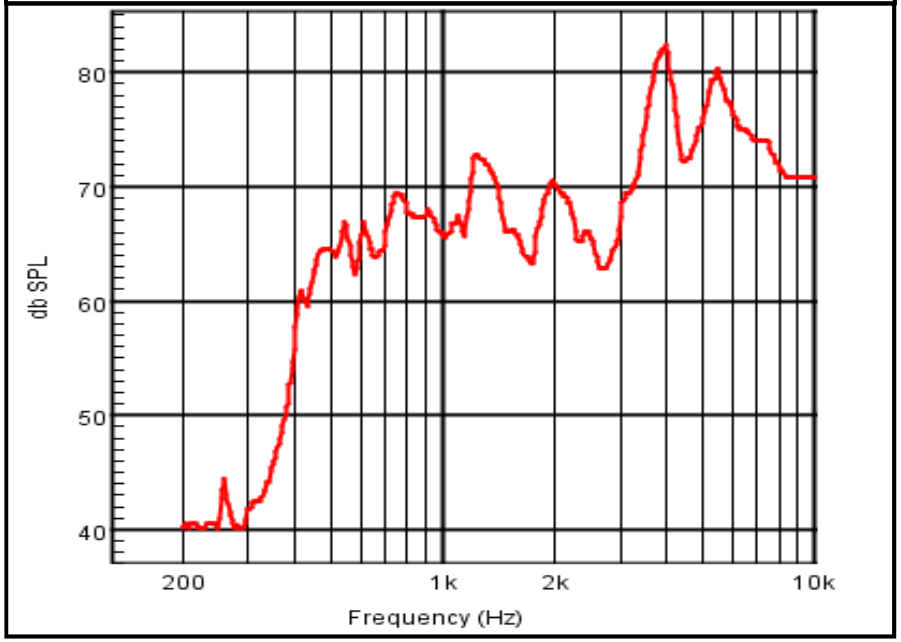
AT-1740-TT-3-R
17mm Transducer



Product Overview

- 17mm diameter piezoelectric transducer with ultra-low 1 mA current draw
- 78 dBA minimum output (3Vp-p @ 10 cm) and 4 kHz resonant frequency
- MPPO housing for durability
- Designed to be hand-soldered

Frequency Response (3 Vp-p @ 0.1 meters)

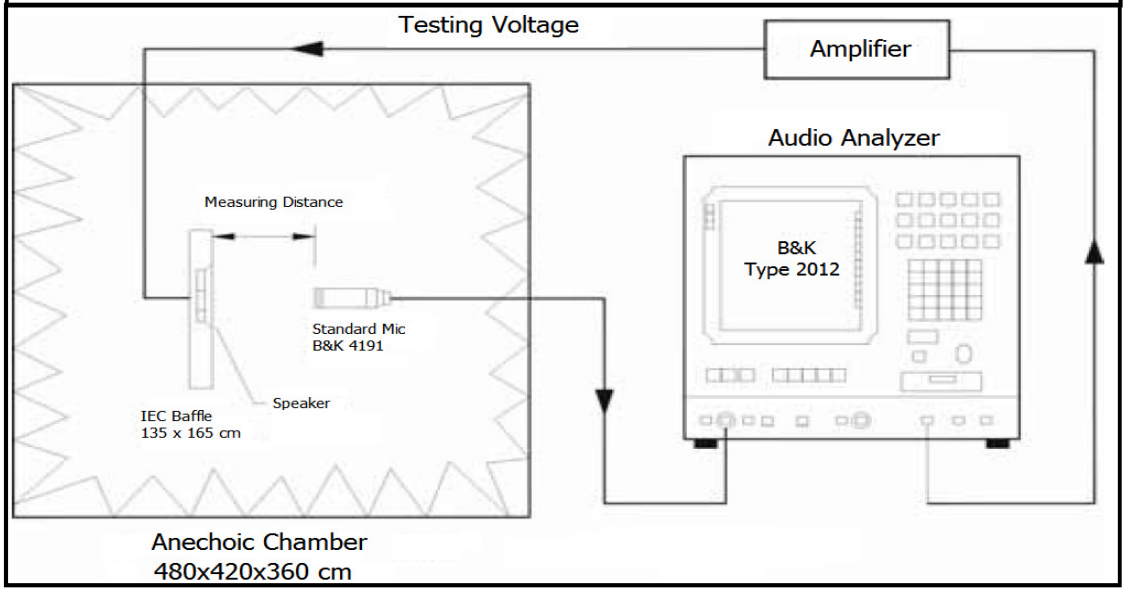


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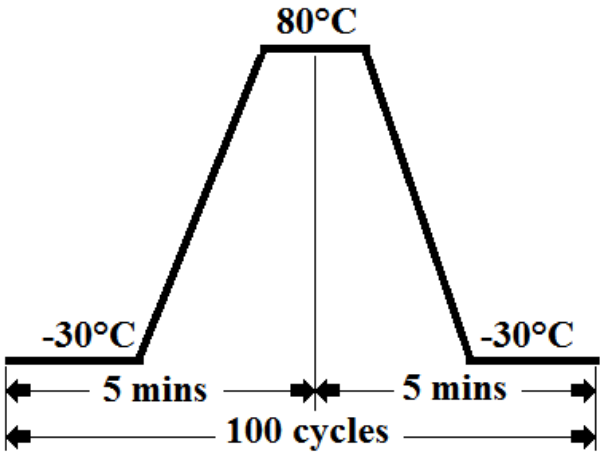
AT-1740-TT-3-R
17mm Transducer

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	40°C (±2°C) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz for 2 hours
Drop Test	100 cm free fall onto 40 mm wood board, 3 axis, 2 cycles per axis
Temperature Cycle Test	-30°C to 80°C, 100 cycles
After tests, part shall rest for 2 hours. Parts are then tested for clean, pure tones.	

Frequency Response and SPL Measurement Setup



Temperature Cycle Test Graph



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SPECIFICATIONS

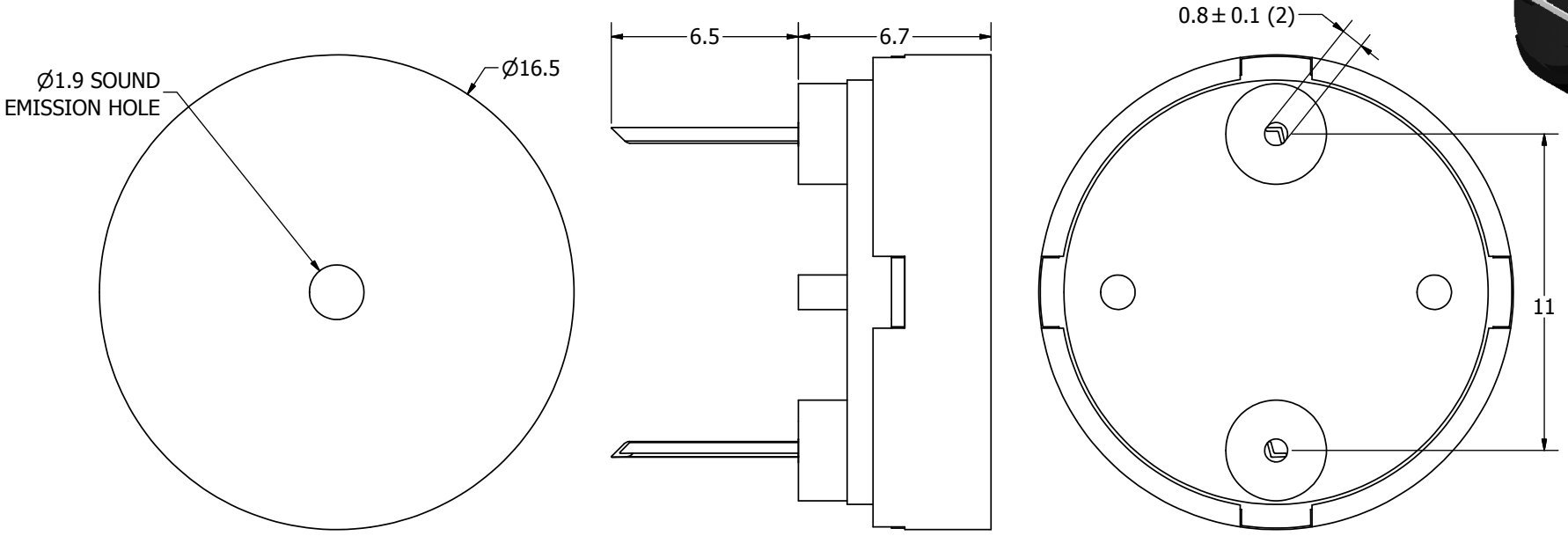
PARAMETERS	VALUES	UNITS
RATED VOLTAGE	3	Vp-p
OPERATING VOLTAGE RANGE	1 ~ 30	Vp-p
RATED CURRENT (MAX)	1	mA
CAPACITANCE	10,000 ± 30%	pF
MINIMUM SPL @ 10 CM	78	dBA
RESONANT FREQUENCY	4,000 ± 500	Hz
OPERATING TEMPERATURE	-20 ~ +70	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	MPPO	-
TERMINAL MATERIAL	Sn PLATED PHOSPHER BRONZE	-
WEIGHT	1	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	1/13/2006	
A	ADDED PIN TOLERANCE	6/21/2007	D.F.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/22/2008	B.R.





NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
3. 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
AT-1740-TT-3-R.idw		J.A.F.	1/13/2006	E.P.	1/13/2006	B.R.	1/13/2006	4/22/2008

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AT-1740-TT-3-R

Transducer (Piezo)

Edition	Sheet
-	1 / 1