

THIS DOCUMENT CONTAINS DATA PROPRIETARY TO PROJECTS UNLIMITED, INC. ANY USE OR REPRODUCTION, IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION OF PROJECTS UNLIMITED, INC. IS PROHIBITED.
© 2003, Projects Unlimited Inc.

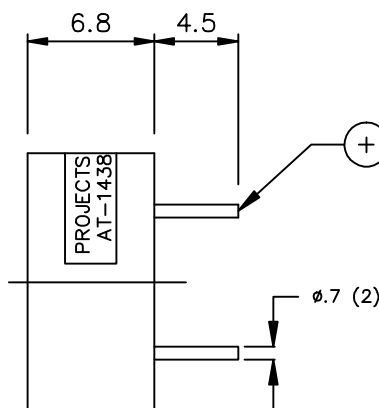
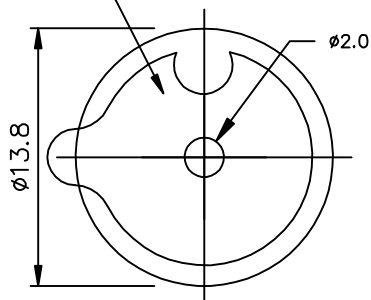
SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED VOLTAGE	5	V _{p-p}
OPERATING VOLTAGE RANGE	1 ~ 20	V _{p-p}
RATED CURRENT (MAX)	1	mA
CAPACITANCE	13,000±30%	pF
MINIMUM SPL @ 10 CM	80	dBA
RESONANT FREQUENCY	3,800±500	Hz
OPERATING TEMPERATURE	-30 ~ +80	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	BLACK NORYL	-
TERMINAL MATERIAL	Sn PLATED RED COPPER	-
WEIGHT	1	grams

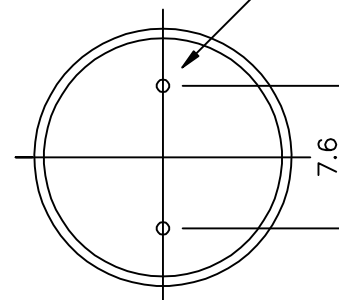
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/17/04	
A	REMOVED LEAD FREE ADDED RoHS NOTE	8/10/05	
B	REVISED TERMINAL MATERIAL	01/24/06	B.R.
C	REVISED HOUSING MATERIAL	11/13/06	B.R.
D	ADDED LABEL & POLARITY MARKING	11/22/06	B.R.

REMOVABLE TAB FOR
WAVE SOLDERING
AND WASHING



POTTING



NOTES:

1. THIS PART IS RoHS 2002/95/EC COMPLIANT.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. SPECIFICATION SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.

FILE NAME

AT-1438-TWT-R.DWG

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN
MILLIMETERS, TOLERANCES ARE ±0.5 AND
ANGLES ARE ±3°.

APPROVALS	DATE
DRAWN <i>R.A.C.</i>	8/04
APPROVED <i>R.W.</i>	8/04

DO NOT SCALE DRAWING



projects®
unlimited

Dayton, Ohio

SUB MINIATURE PIEZO CERAMIC AUDIO TRANSDUCER

SIZE
A

DRAWING NO.
AT-1438-TWT-R

SCALE: N.T.S.

SHEET 1 OF 1