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## SPECIFICATIONS

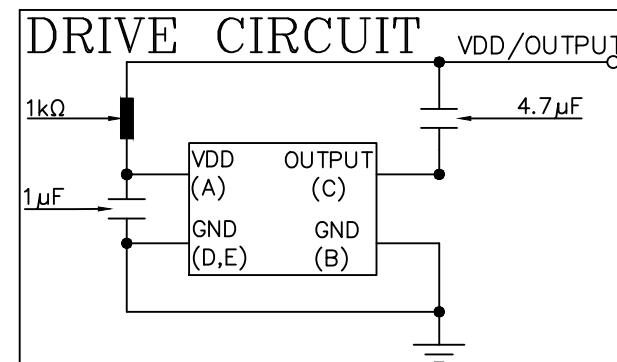
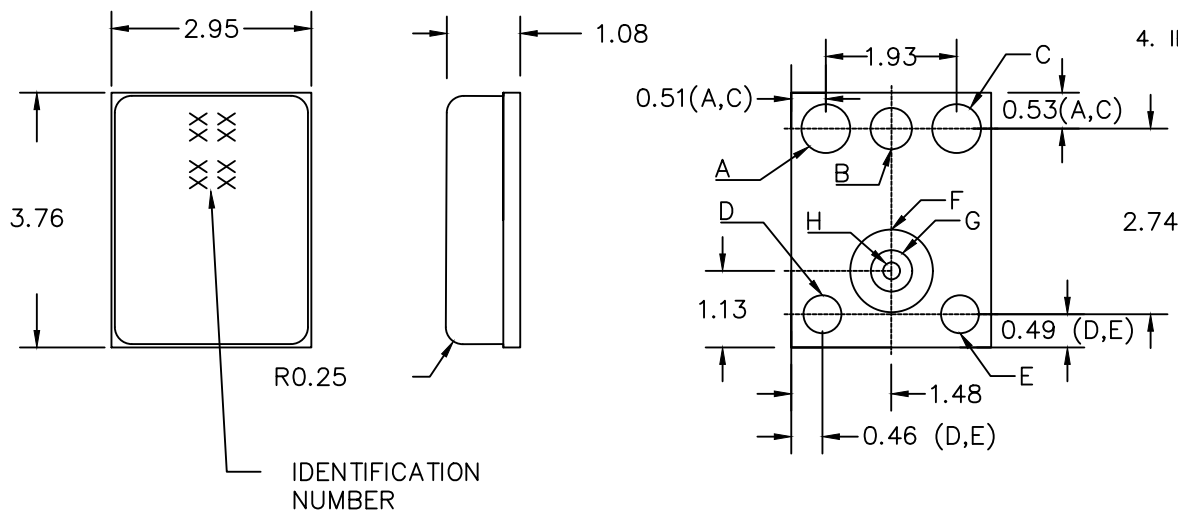
PARAMETERS	VALUES	UNITS
DIRECTIVITY	OMNI	—
SENSITIVITY (0 dB=1V/Pa @ 1 kHz)	-38±3	dB
STANDARD OPERATING VOLTAGE	2.1	Vdc
OPERATING VOLTAGE RANGE	1.6 – 3.6	Vdc
CURRENT CONSUMPTION (TYPICAL)	150	µA
IMPEDANCE	≤400	Ohm
SIGNAL TO NOISE RATIO (TYPICAL)	61	dB
FREQUENCY RANGE	100 – 10,000	Hz
MAX INPUT SOUND LEVEL (FOR <10% DISTORTION)	125	dB

## REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
—	RELEASED FROM ENGINEERING	7/15/16	


### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS. TOLERANCE FOR EACH LISTED DIMENSION IS ±0.1MM.
- SPECIFICATION SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- LAND PATTERN DIMENSIONS ARE EXACTLY THE SAME SIZE AND SHAPE AS PADS ON PIEZO MEMS SENSOR. RECOMMENDED SOLDER PASTE HEIGHT IS 3–5 MILS (75µm to 125µm).
- IP68 INGRESS PROTECTION RATING FOR DUST AND WATER.



DESCRIPTION	LABEL	MIN	NOMINAL	MAX
POWER	A	0.62	0.72	0.82
GND	B	0.51	0.61	0.71
OUTPUT	C	0.62	0.72	0.82
GND	D	0.46	0.56	0.66
GND	E	0.46	0.56	0.66
OUTER ACOUSTIC SEAL	F	1.12	1.22	1.32
INNER ACOUSTIC SEAL	G	0.51	0.61	0.71
ACOUSTIC HOLE	H	0.15	0.25	0.35

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DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.1 AND ANGLES ARE ±3°.

 **pui audio**  
a projects unlimited company

3541 Stop Eight Road  
Dayton, Ohio 45414

**PIEZO MEMS MICROPHONE**

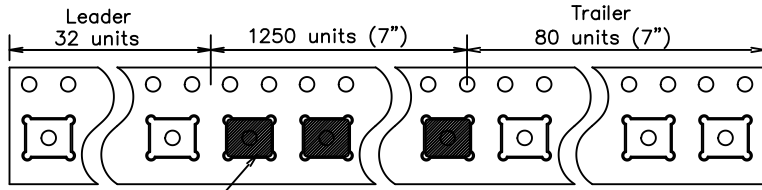
APPROVALS	DATE
DRAWN <i>M.V.</i>	7/16
CHECKED <i>M.V.</i>	7/16
APPROVED <i>B.R.</i>	7/16

SIZE **A** DRAWING NO. **PMM-3738-WP-R**

SCALE: N.T.S. SHEET 1 OF 1

Tape and Reel  
Quantity: 1250 pieces per reel

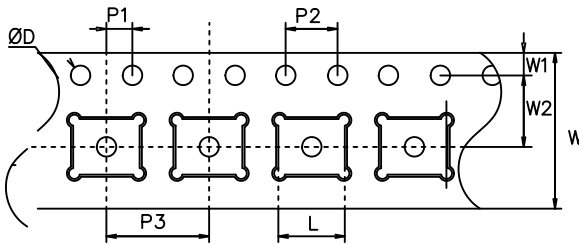
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	7/15/16	



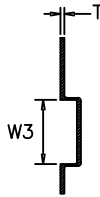
Microphone

Tape Layout

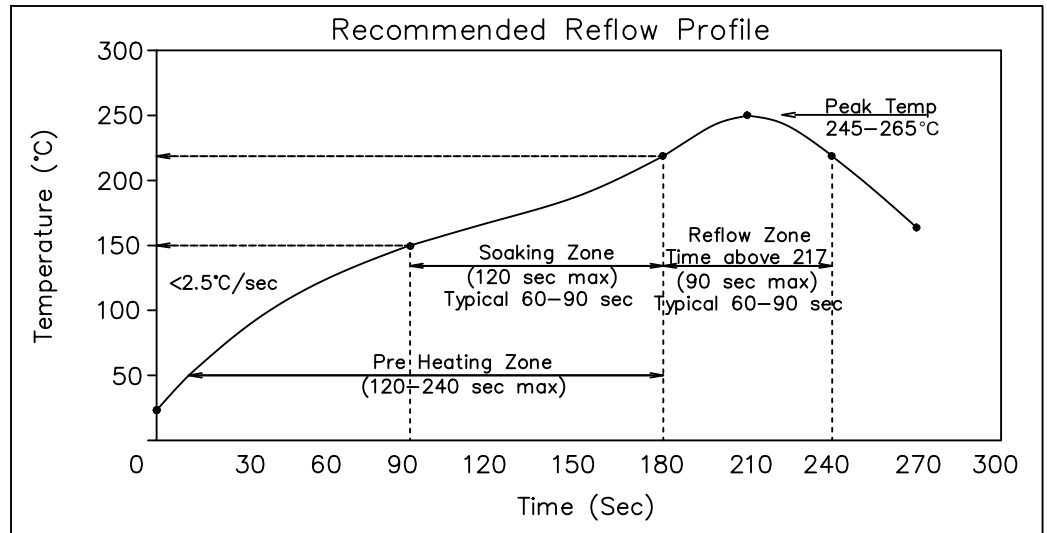
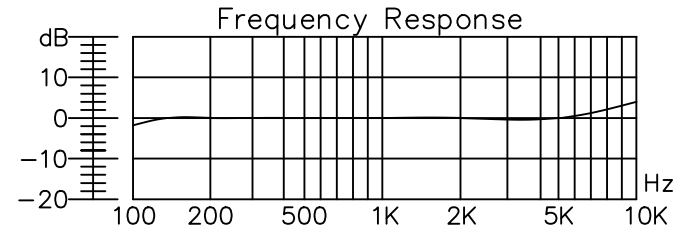
Top View



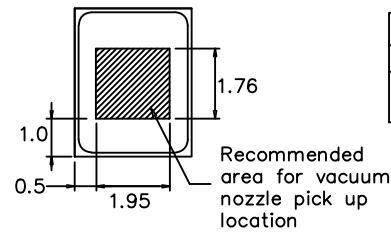
Section A



Symbol	Millimeter		
	Minimum	Nominal	Maximum
ØD	1.5	1.5	1.6
P1	1.9	2.0	2.1
P2	3.9	4.0	4.1
P3	7.9	8.0	8.1
L	3.73	3.83	3.93
W	11.7	12	12.3
W1	1.65	1.75	1.85
W2	5.4	5.5	5.6
W3	2.88	2.98	3.08
T	0.25	0.3	0.35



Pickup Tool Pick Location



Pick Up Pressure Limits		
Condition	mmHg	PSI
Max Air Purge	3000	58
Max Vacuum	-500	9.6

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3541 Stop Eight Road  
Dayton, Ohio 45414

APPROVALS	DATE	PIEZO MEMS MICROPHONE	
DRAWN	M.V. 7/16	SIZE	DRAWING NO.
CHECKED	M.V. 7/16	A	PMM-3738-WP-R
APPROVED	B.R. 7/16	SCALE: N.T.S.	SHEET 1 OF 1

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