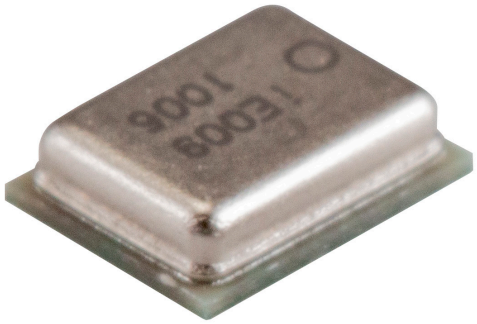
CUDEVICES

MODEL: CMM-3526AB-38308-TR | **DESCRIPTION:** MEMS MICROPHONE

FEATURES

- analog
- small package
- reflow solder compatible
- omnidirectional



RoHS

ELECTRICAL

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	at 94 dB SPL, 1 kHz	-41	-38	-35	dB
supply voltage (V_{DD})		1.5	2.0	3.6	V
current consumption (I_{DSS})	V_{DD} = 2.0 V		150	250	µA
frequency (f)		100		10,000	Hz
signal to noise ratio (S/N)	at 94 dB SPL, 1 kHz (A-weighted)		65		dBA
total harmonic distortion (THD)	at 94 dB SPL, 1 kHz		0.15		%
acoustic overload point (AOP)	at 10% THD, 1 kHz		125		dB SPL
output impedance (Zout)	at 1 kHz			300	Ω
PSRR	200 mVp-p sine wave @ 1 kHz, VDD = 2.0 V		80		dB
PSR	100 mVp-p square wave @ 217 Hz, VDD = 2.0 V		-105		dBV(A)

Notes: 1. All specifications measured at 23±2°C, humidity at 55±20%, unless otherwise noted.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-40		100	°C
storage temperature	in packaging	-40		85	°C
RoHS	yes				

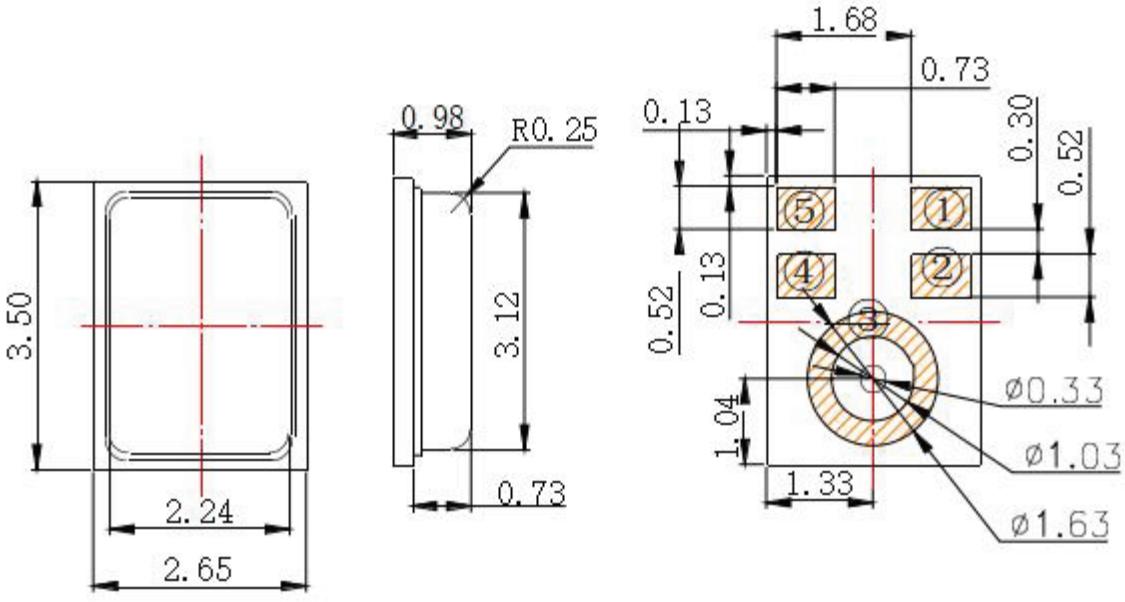
MECHANICAL

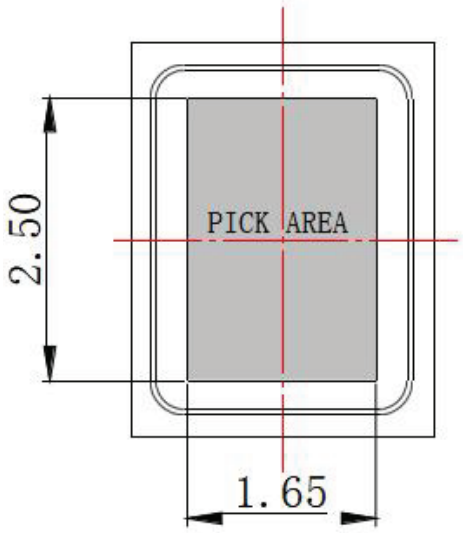
parameter	conditions/description	min	typ	max	units
dimensions	3.50 x 2.65 x 0.98				mm
acoustic port	bottom				
terminals	surface mount				
weight			0.023		g

MECHANICAL DRAWING

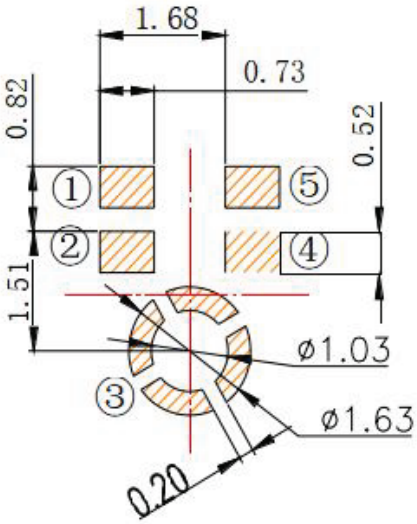
units: mm
tolerance: ±0.1 mm

TERMINAL CONNECTIONS	
TERM.	FUNCTION
1	output
2	GND
3	GND
4	GND
5	VDD



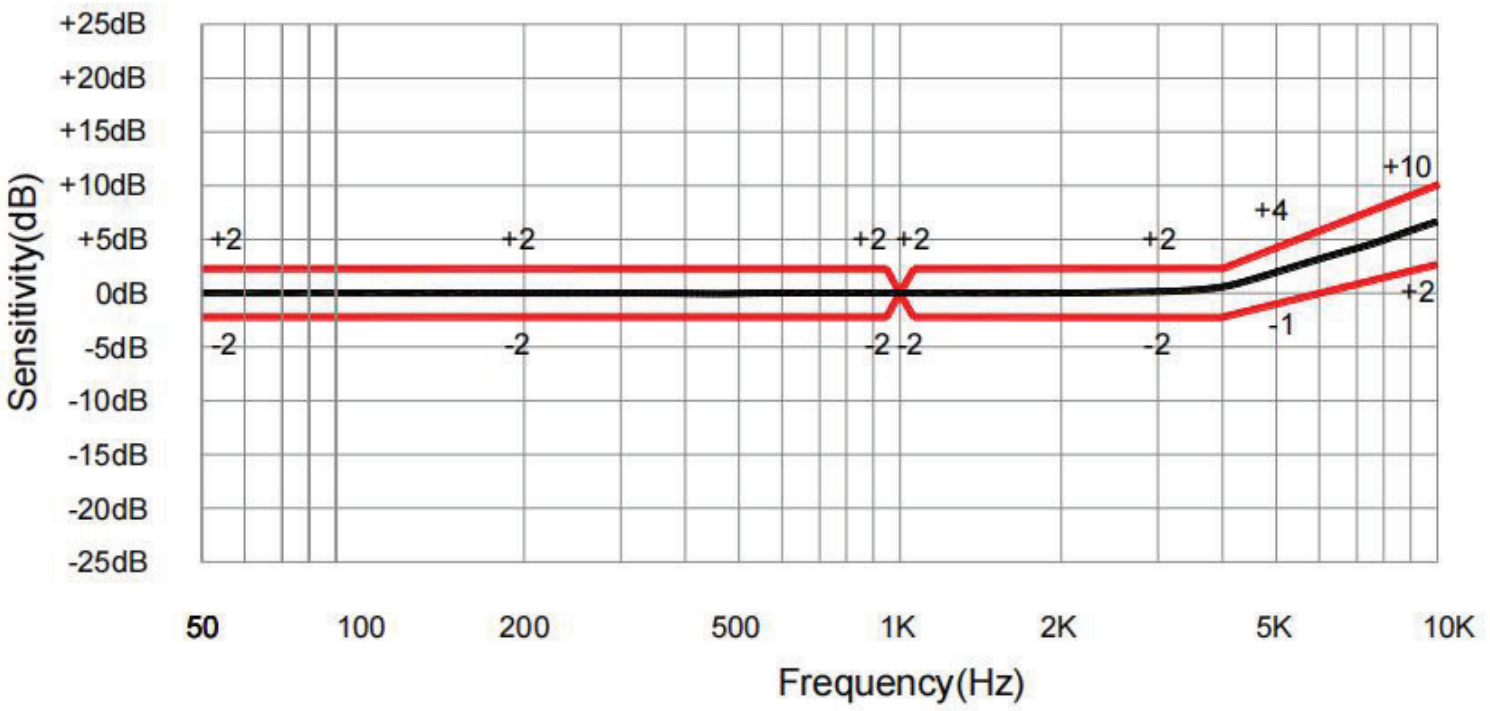


Recommended Vacuum Nozzle Pickup
Top View

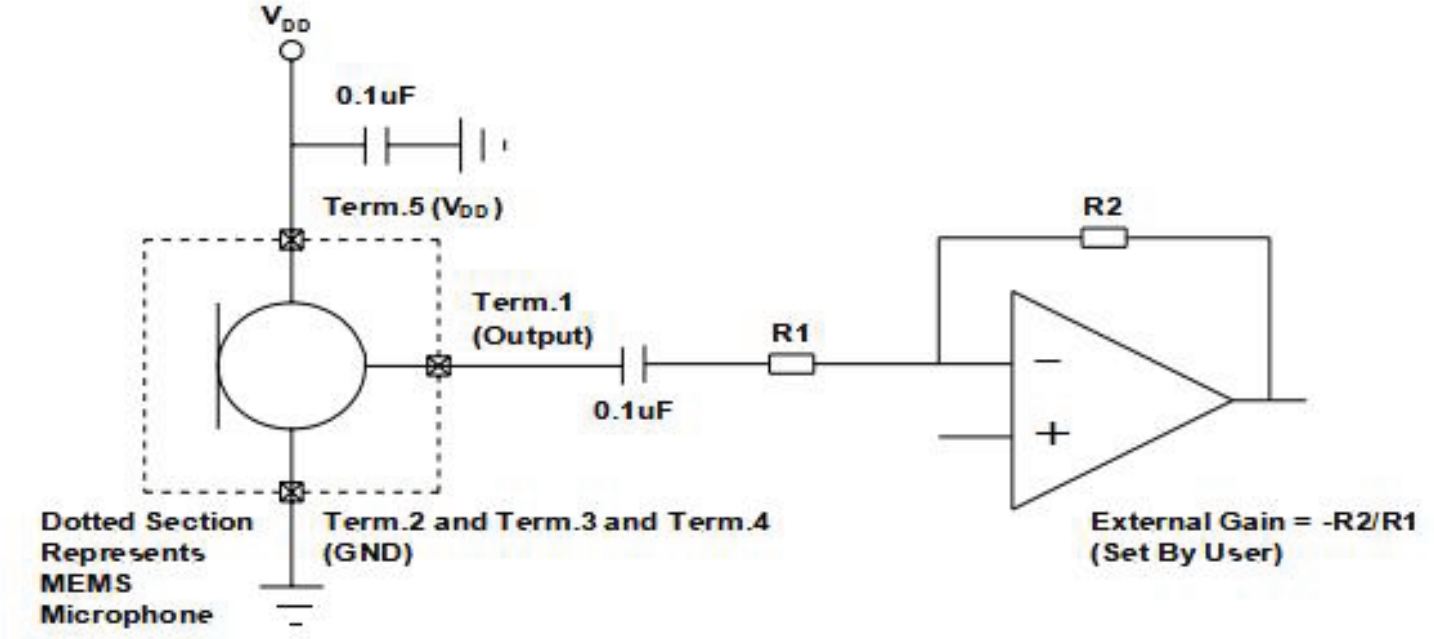


Recommended PCB Layout
Top View

FREQUENCY RESPONSE CURVE



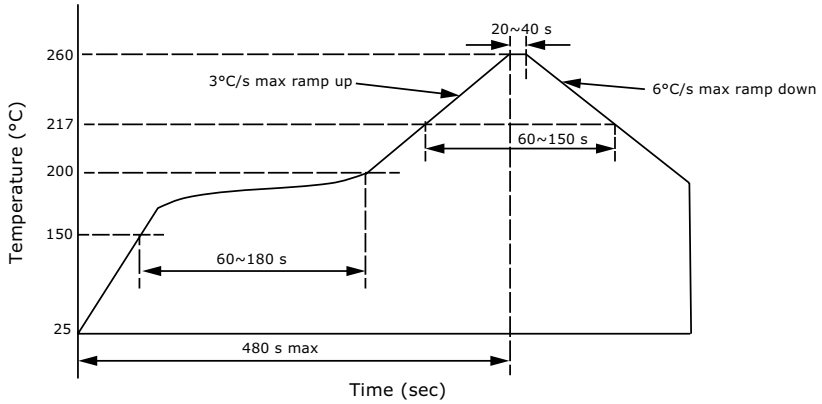
APPLICATION CIRCUIT



SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reflow soldering	see reflow profile			260	°C

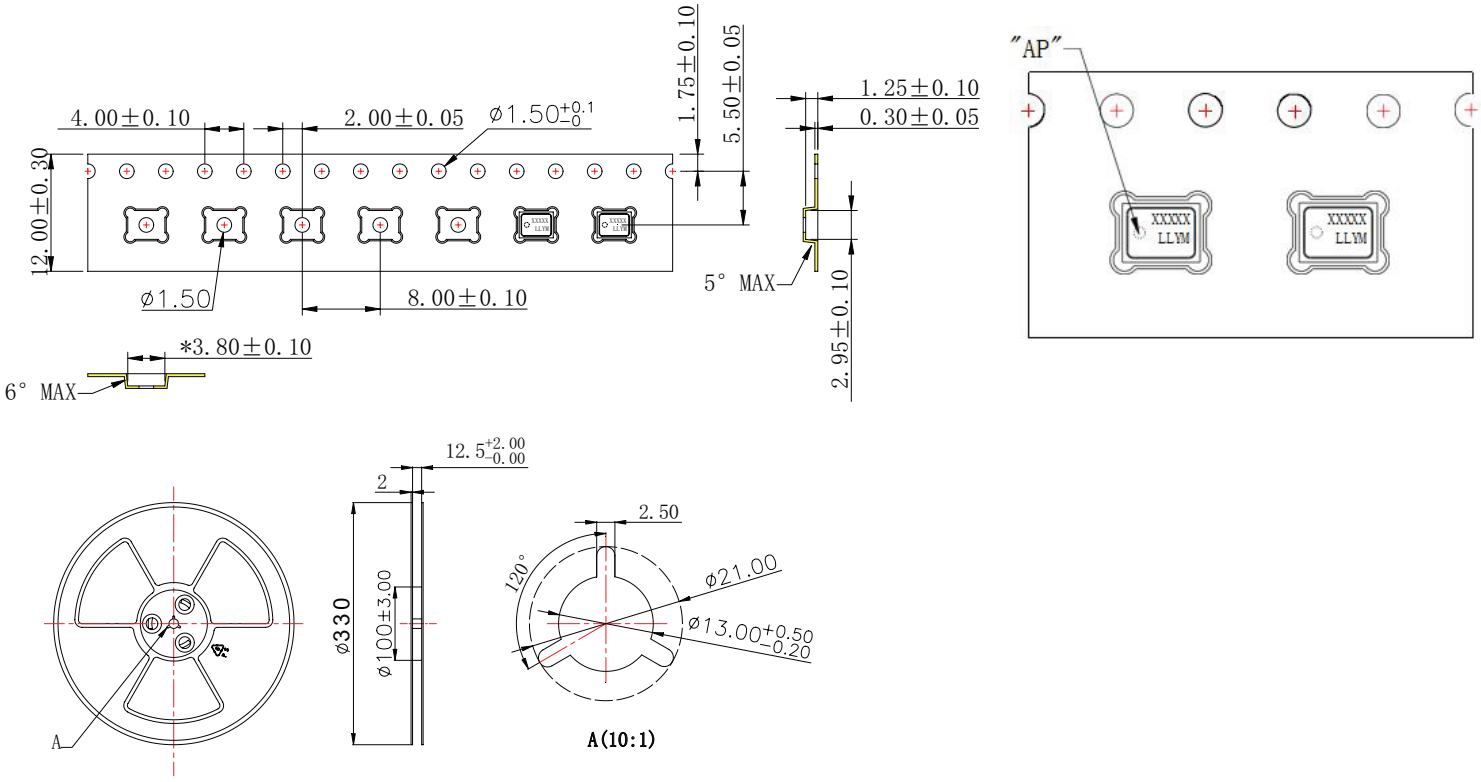
Note:
1. Vacuuming over acoustical hole is not allowed.
2. Not suitable for wash process.
3. Not recommended to exceed 5 reflow cycles.



PACKAGING

parameter	conditions/description	min	typ	max	units
reel storage[4]	at relative humidity <75%	-40		85	°C
MSL	Class 1				
reel size	Ø330 mm max				
reel QTY	5,700 pcs per reel				

Note:
4. Recommended storage period no more than 1 year. Floor life (out of bag) no more than 4 weeks.



REVISION HISTORY

rev.	description	date
1.0	initial release	11/08/2018
1.01	brand update	01/16/2020
1.02	logo, datasheet style update	08/05/2022
1.03	changed internal chip	07/18/2023

The revision history provided is for informational purposes only and is believed to be accurate.

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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