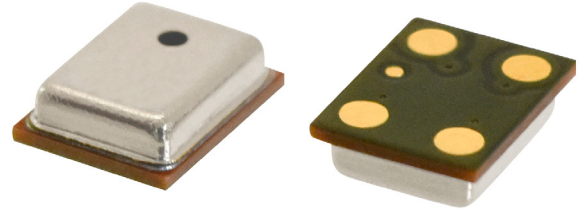


MODEL: CMM-3729AT-42316-TR | **DESCRIPTION:** MEMS MICROPHONE**FEATURES**

- analog
- small package
- reflow solder compatible
- omnidirectional

**ELECTRICAL**

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity [S]	at 94 dB SPL, 1 kHz	-45	-42	-39	dB
supply voltage [V _{DD}]		1.6	2.0	3.6	V
current consumption [I _{DD}]	V _{DD} = 2.0 V		160		μA
sensitivity reduction	V _{DD} = 3.6 ~ 1.6 V		-0.5		dB
frequency [f]		100		10,000	Hz
signal to noise ratio [S/N]	at 94 dB SPL, 1 kHz [A-weighted]		57		dBA
total harmonic distortion [THD]	at 94 dB SPL, 1 kHz		0.2		%
acoustic overload point [AOP]	at 10% THD, 1 kHz		125		dB SPL
output impedance [Z _{out}]	at 1 kHz			300	Ω

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		105	°C
storage temperature	in packaging	-40		85	°C
RoHS	yes				

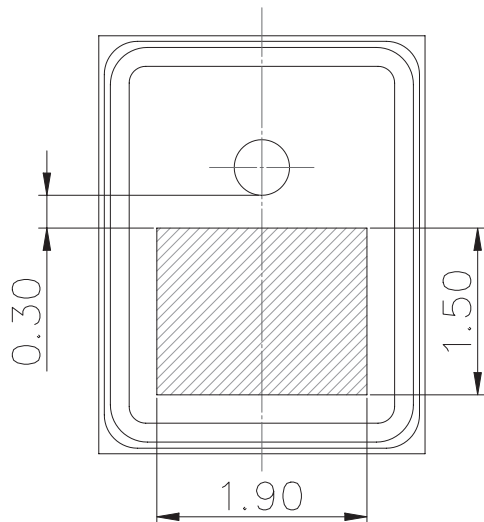
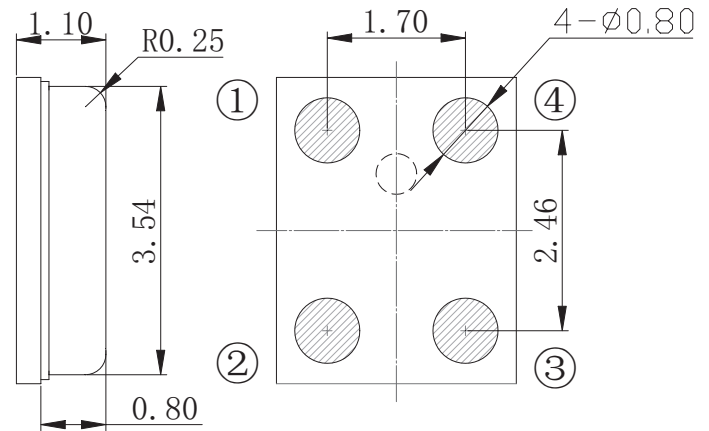
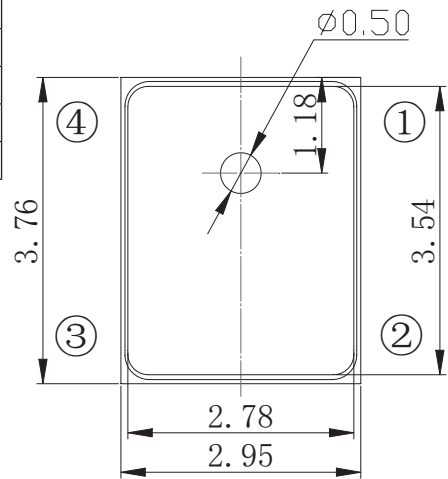
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	3.76 x 2.95 x 1.10				mm
acoustic port	top				
terminals	surface mount				
weight			0.024		g

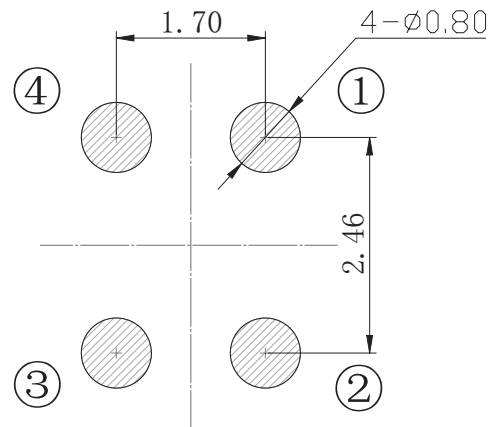
MECHANICAL DRAWING

units: mm
tolerance: ± 0.1 mm

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

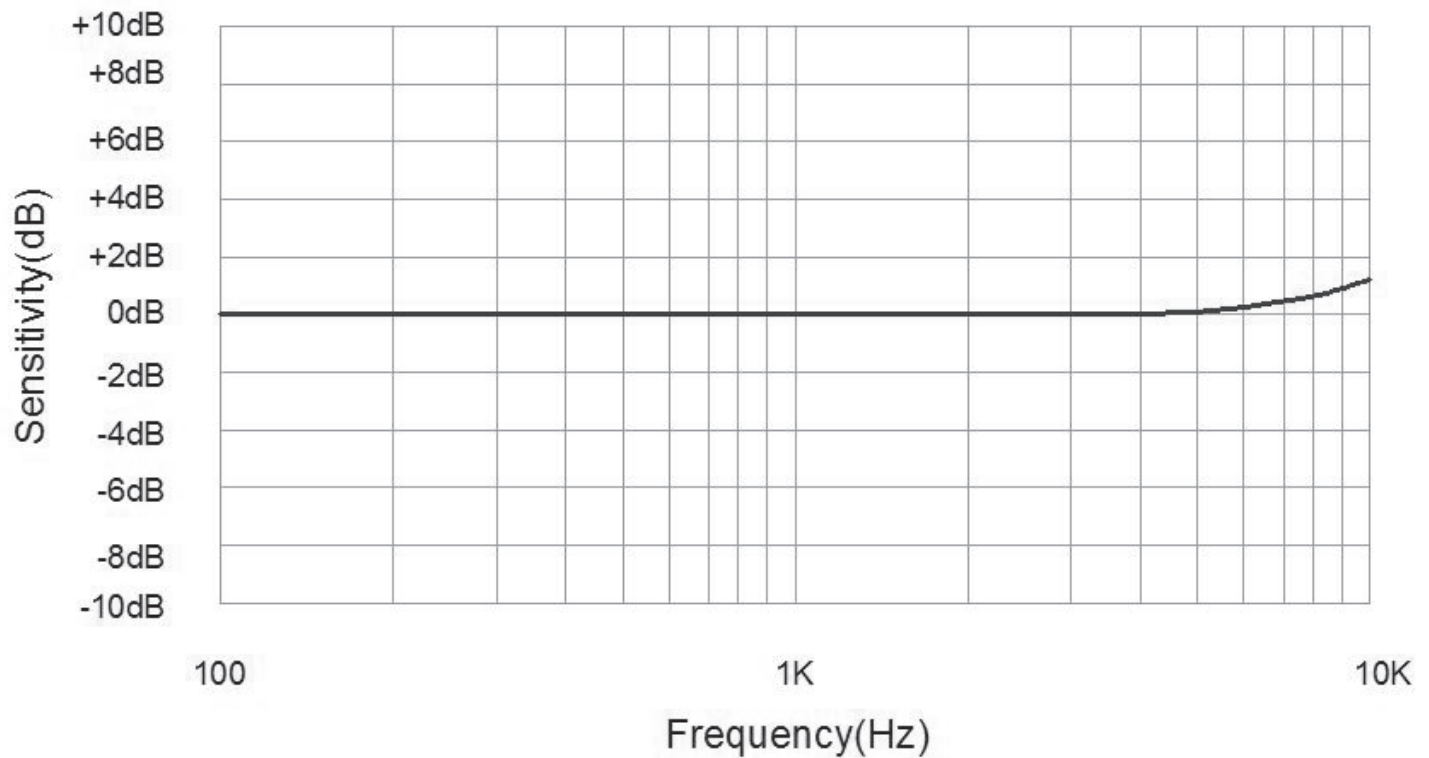


Recommended Vacuum Nozzle Pickup
Top View

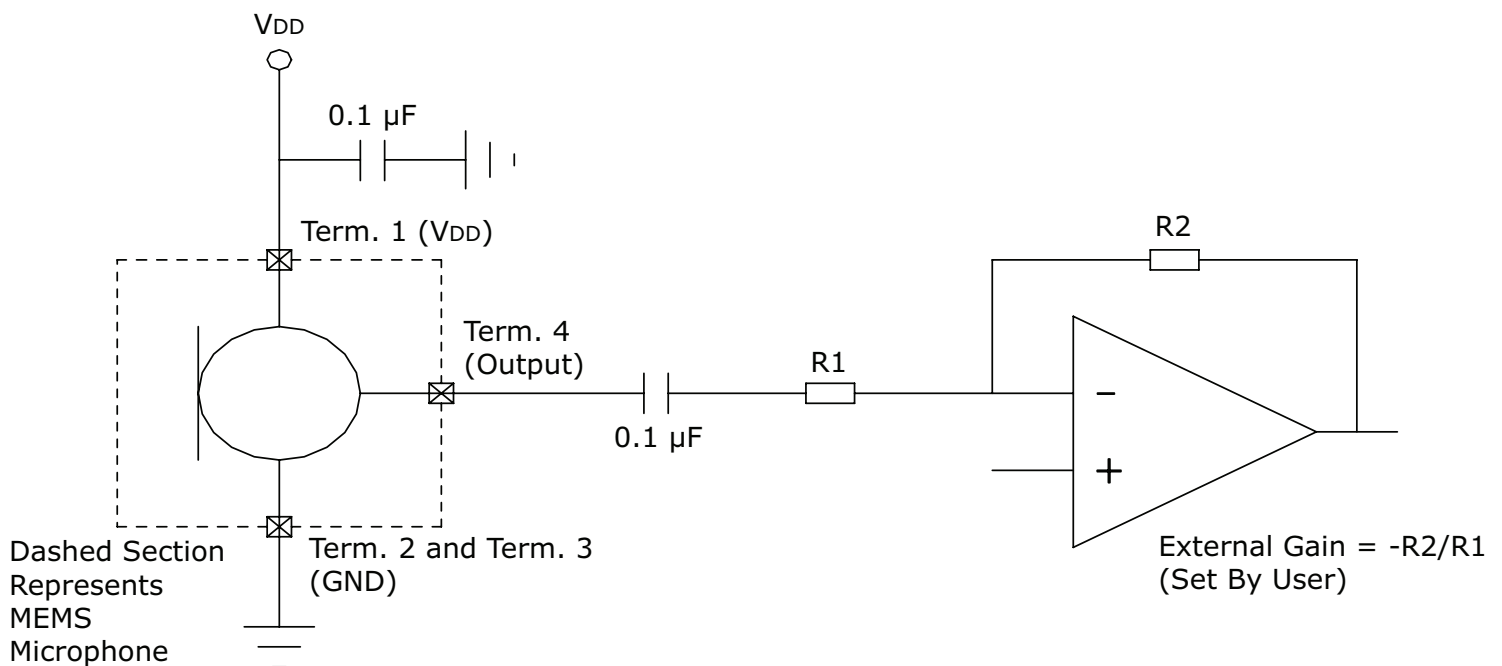


Recommended PCB Layout
Top View

FREQUENCY RESPONSE CURVE



APPLICATION CIRCUIT



cuidevices.com

REVISION HISTORY

rev.	description	date
1.0	initial release	11/08/2018
1.01	brand update	01/15/2020
1.02	logo, datasheet style update	08/05/2022

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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