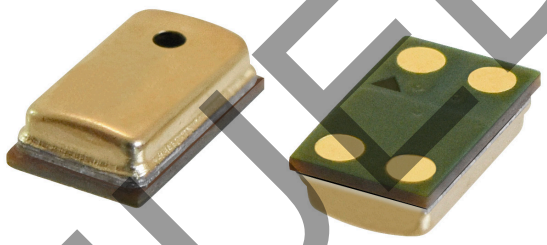
MODEL: CMM-3722AT-42208-TR | **DESCRIPTION:** MEMS MICROPHONE

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	-44	-42	-40	dB
supply voltage (V_{DD})		1.6	2.0	3.6	V
current consumption (I_{DSS})	V_{DD} = 2.0 V		80		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)		60		dBA
total harmonic distortion (THD)	at 94 dB SPL, 1 kHz		0.2		%
acoustic overload point (AOP)	at 10% THD, 1 kHz		130		dB SPL
output impedance (Zout)	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				

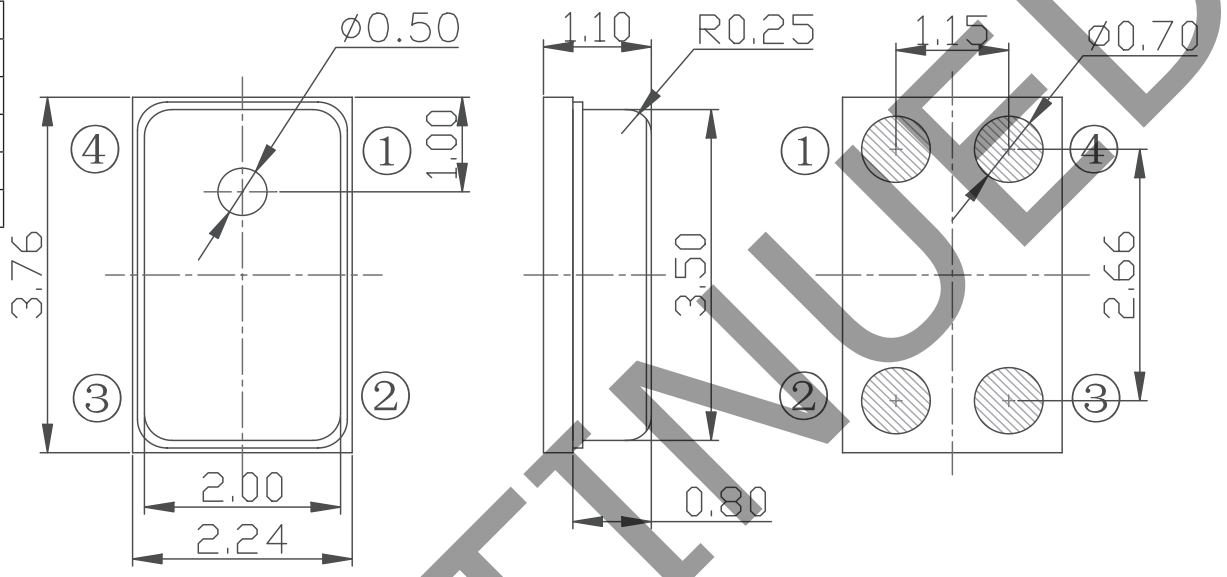
MECHANICAL

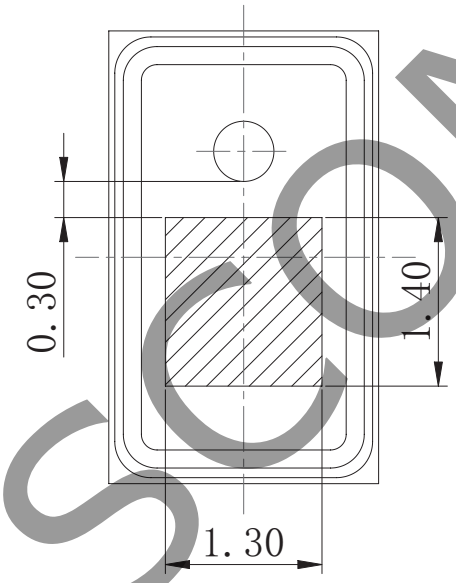
parameter	conditions/description	min	typ	max	units
dimensions	3.76 x 2.24 x 1.10				mm
acoustic port	top				
terminals	surface mount				
weight			0.024		g

MECHANICAL DRAWING

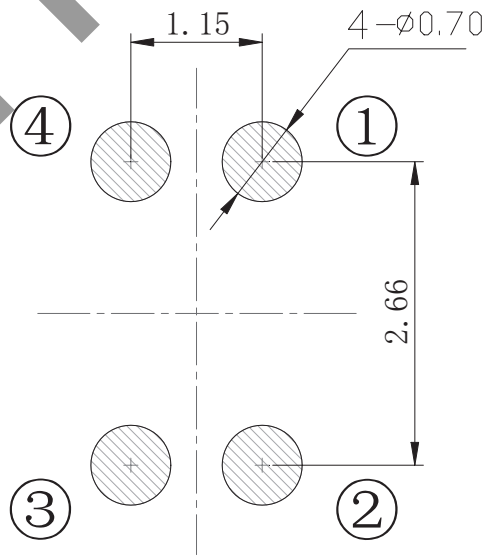
units: mm
tolerance: ±0.1 mm

TERMINAL CONNECTIONS	
TERM.	FUNCTION
1	V_{DD}
2	GND
3	GND
4	output



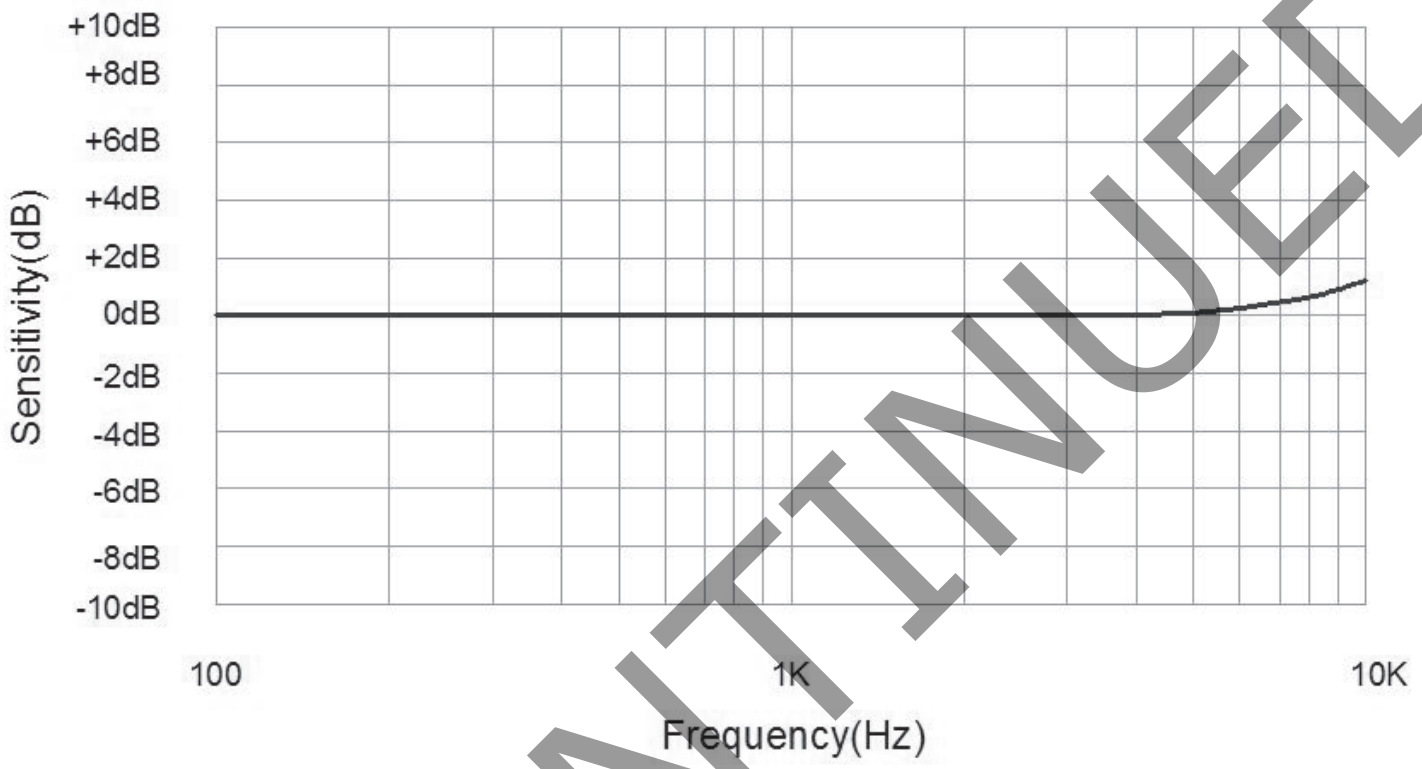


Recommended Vacuum Nozzle Pickup
Top View

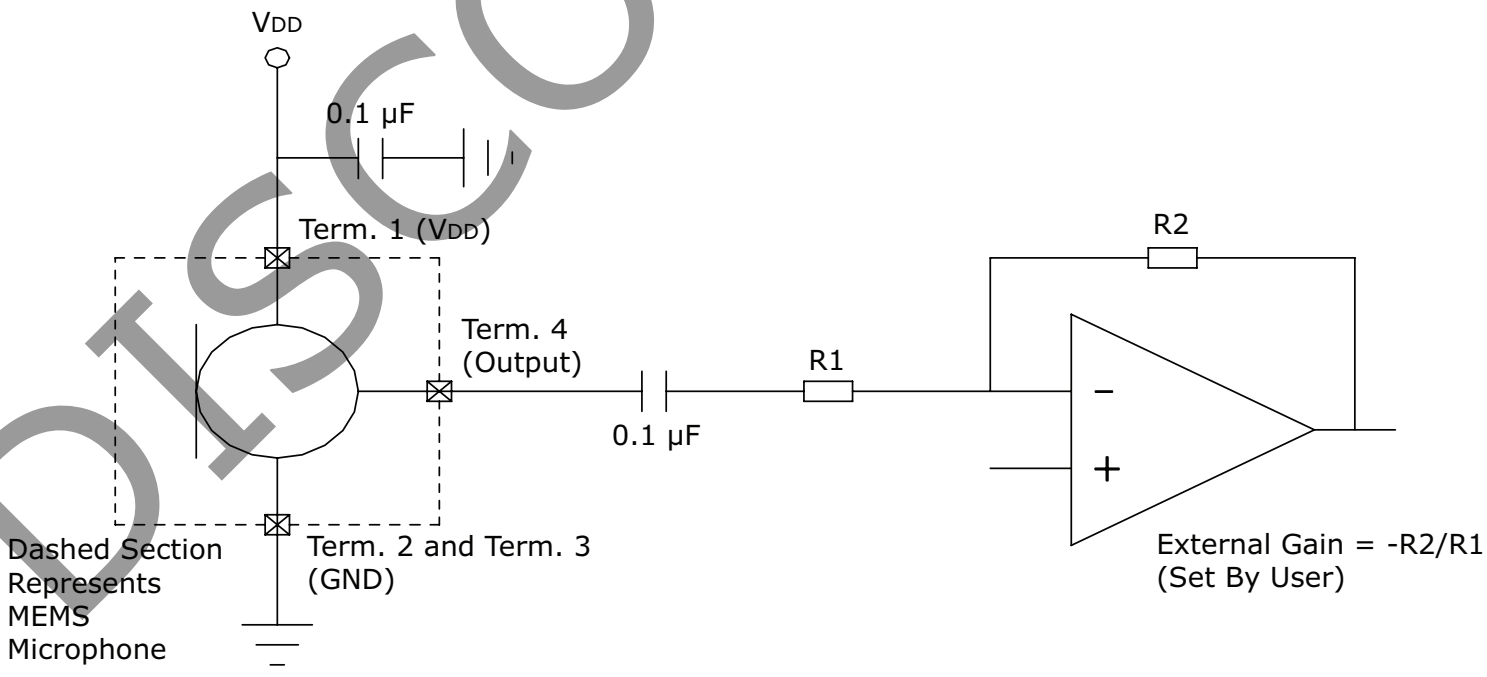


Recommended PCB Layout
Top View

FREQUENCY RESPONSE CURVE



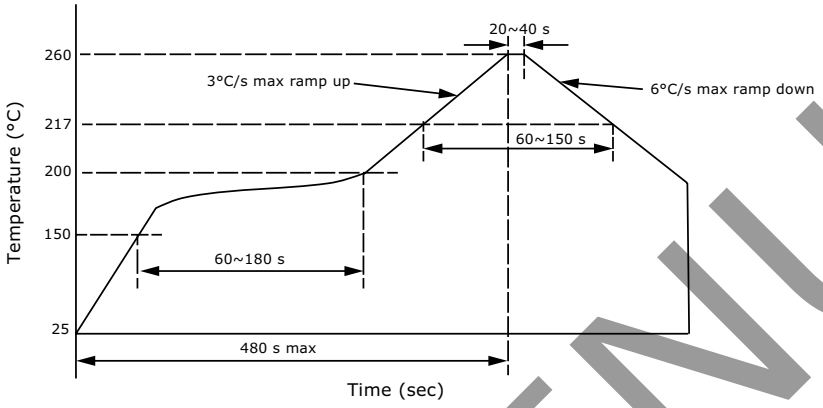
APPLICATION CIRCUIT



SOLDERABILITY

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

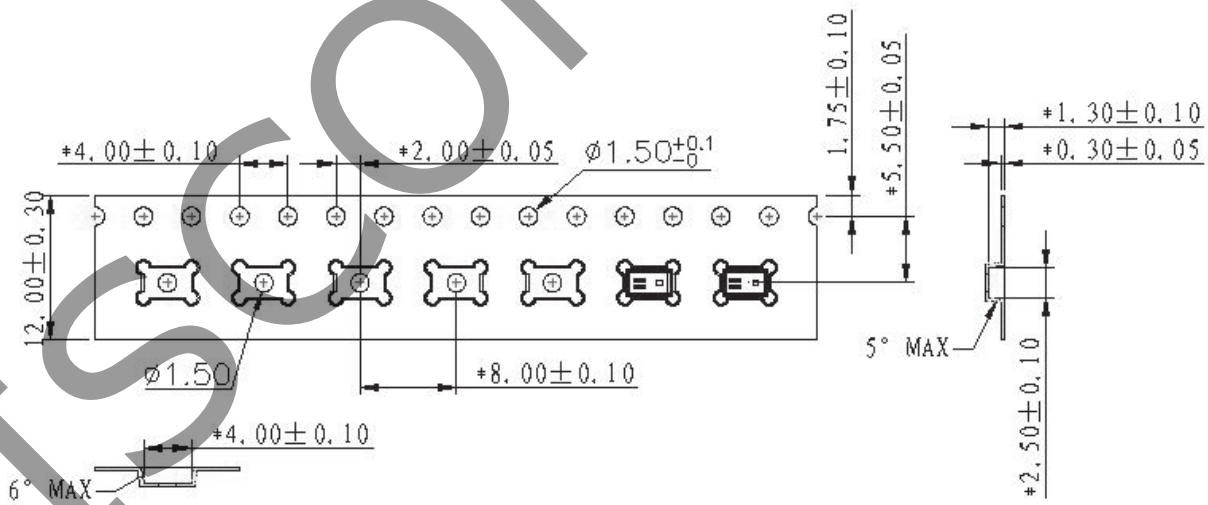
Note: 1. Vacuuming over acoustical hole is not allowed.
2. Not suitable for wash process.
3. Not recommended to exceed 5 reflow cycles.

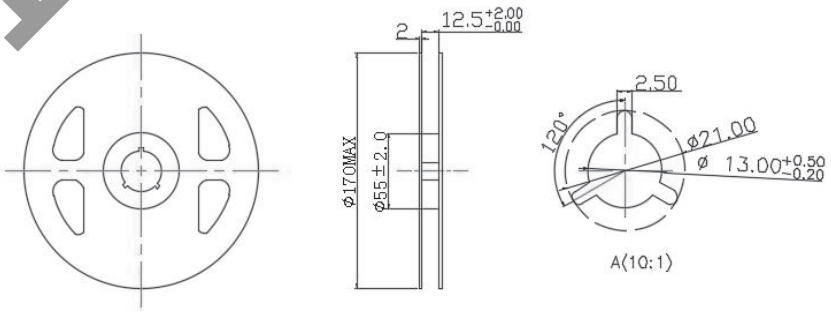


PACKAGING

parameter	conditions/description	min	typ	max	units
reel storage[4]	at relative humidity <75%	-40		85	°C
MSL	Class 1				
reel size	Ø170 mm max				
reel QTY	1,000 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	01/15/2020

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