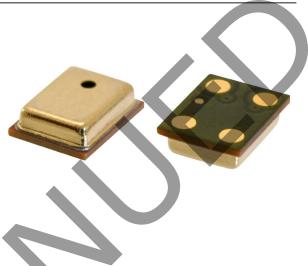
CUI DEVICES

MODEL: CMM-3729AT-42108-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 | -43 | -42 | -41 | dB |
| supply voltage (VDD) | | 1.6 | 2.0 | 3.6 | V |
| current consumption (IDSS) | VDD = 2.0 V | | 80 | | μA |
| sensitivity reduction | VDD = 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 a | t 23±2°C, humidity at 55±20%, unless otherwise noted. | | | | |

ENVIRONMENTAL

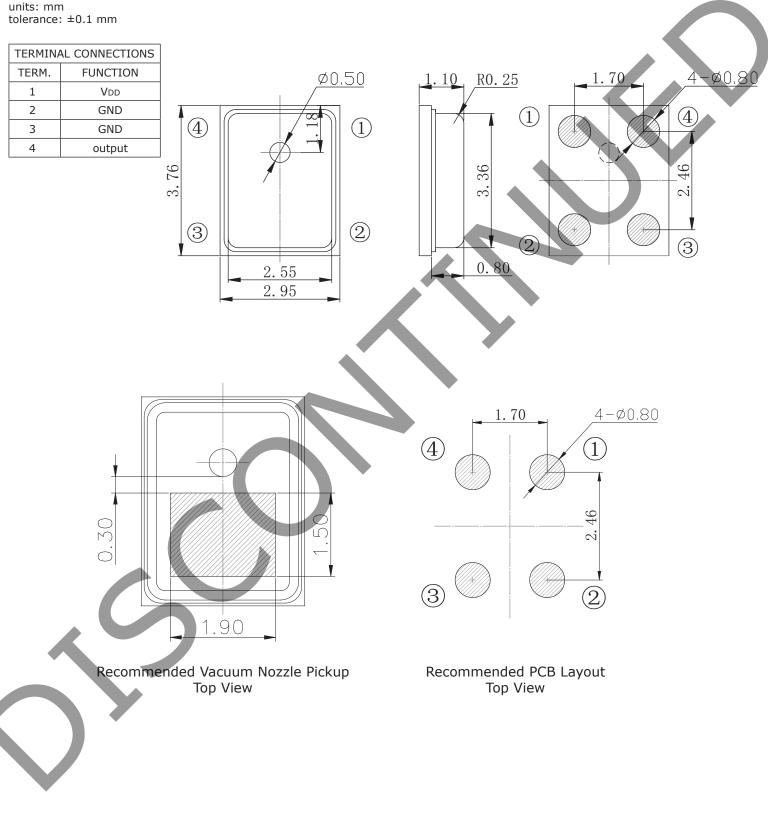
.....

| 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 units max dimensions 3.76 x 2.95 x 1.10 mm acoustic port top terminals surface mount weight 0.024 g

MECHANICAL DRAWING

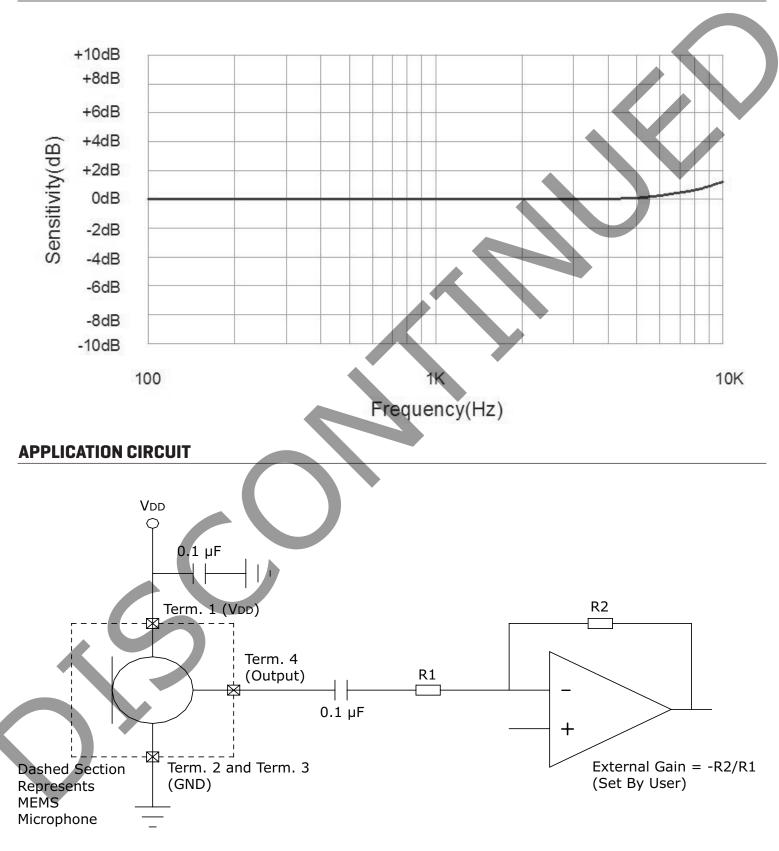
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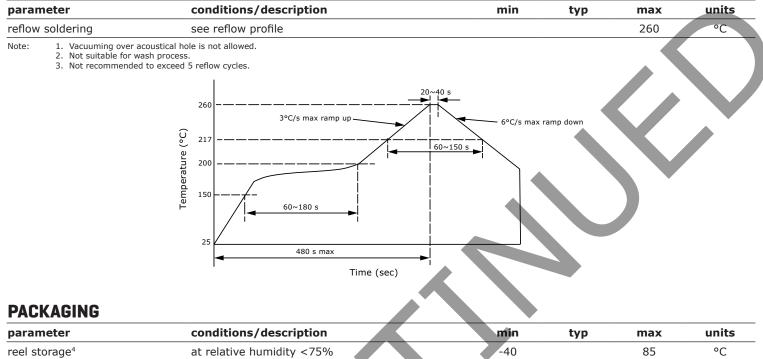
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FREQUENCY RESPONSE CURVE

.....

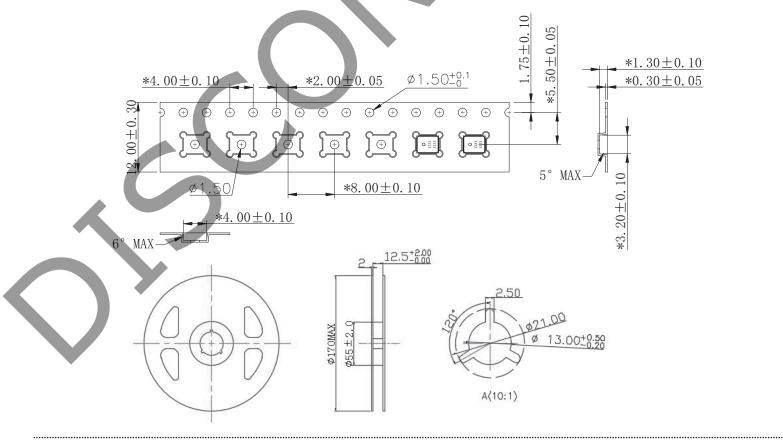


SOLDERABILITY



| reerstorage | at relative number < 75% | | -40 | 65 | -0 |
|-------------|--------------------------|--|-----|----|----|
| 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 | 11/07/2018 | |
| 1.01 | brand update | 01/16/2020 | |

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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