

**MODEL:** CMM-2718AT-423Z-TR | **DESCRIPTION:** MEMS MICROPHONE**FEATURES**

- top port
- compact size
- acoustic overload point of 133 dB SPL @ 2.3~3.6 V

**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	100	130	250	μA
frequency [f]		20		10,000	Hz
signal to noise ratio [S/N]	BW = 20~20 kHz [A-weighted]	56	59	62	dBA
total harmonic distortion [THD]	at 94 dB SPL, 1 kHz	0.05	0.10	0.50	%
acoustic overload point [AOP]	at 10% THD, 1 kHz, V _{DD} =1.6~2.2 V	127	129	131	dB SPL
	at 10% THD, 1 kHz, V _{DD} =2.3~3.6 V	131	133	135	dB SPL
phase	100~10 kHz at 94 dB	-5	0	5	deg
output impedance [Z _{out}]	at 1 kHz	100	170	300	Ω
dc output	V _{DD} =2.0 V	0.60	0.95	1.30	V
PSRR	200 mVp-p sine wave @ 1 kHz, V _{DD} = 2.0 V	65	75	85	dB
PSR	100 mVp-p square wave @ 217 Hz, V _{DD} = 2.0 V [A-weighted]	-115	-105	-95	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		100	°C
RoHS	yes				

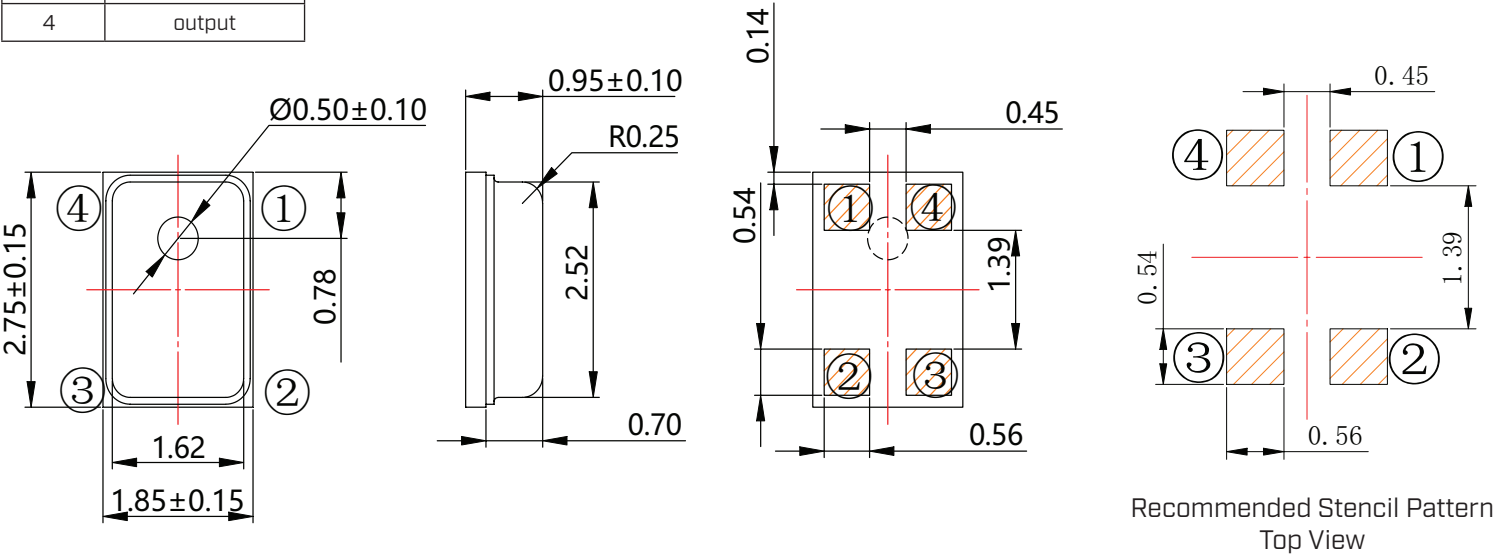
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	2.75 x 1.85 x 0.95				mm
acoustic port	top				
terminals	surface mount				
weight		0.011	0.014	0.017	g

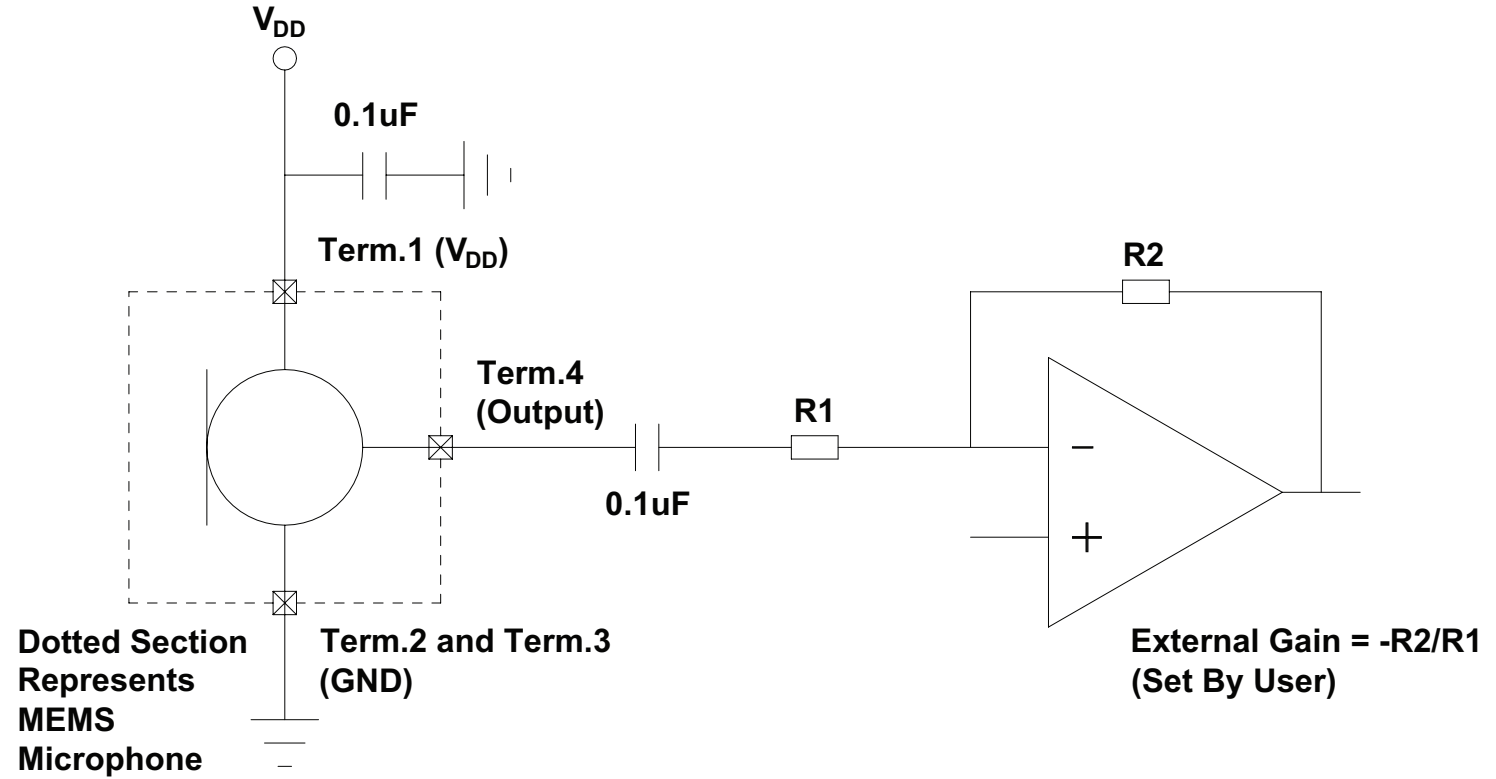
MECHANICAL DRAWING

units: mm
tolerance: ± 0.1 mm

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

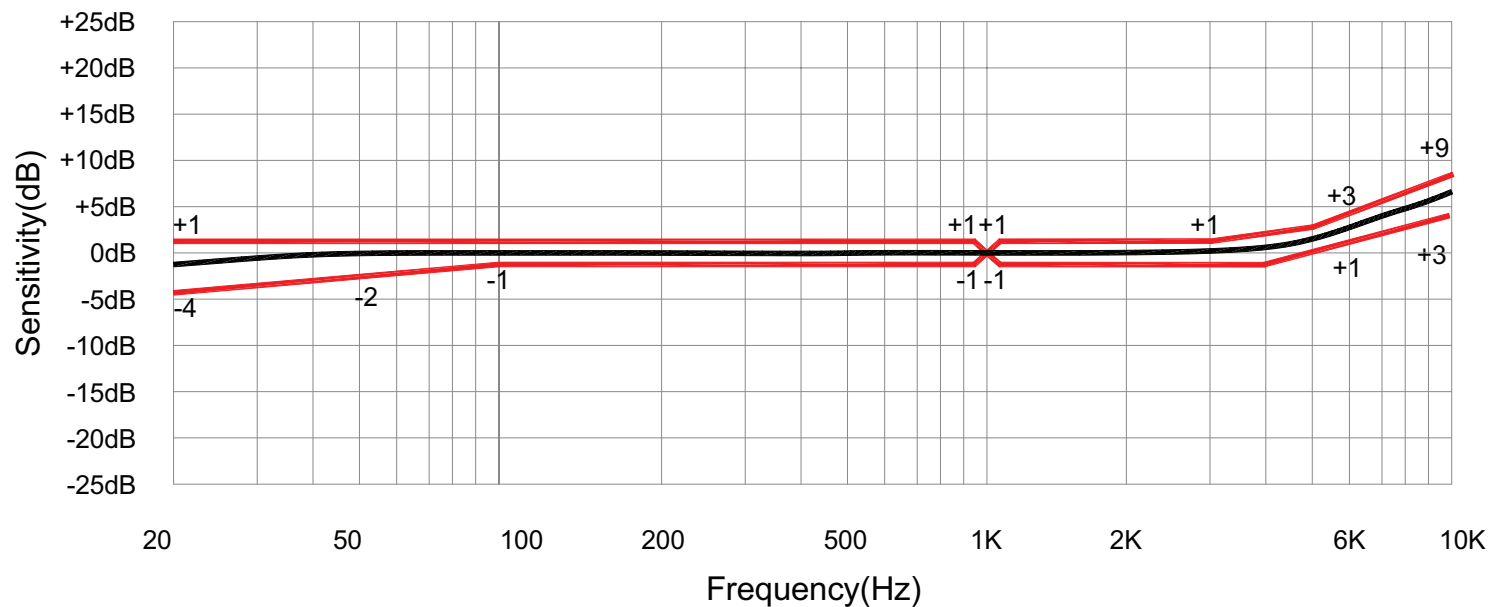


INTERFACE CIRCUIT

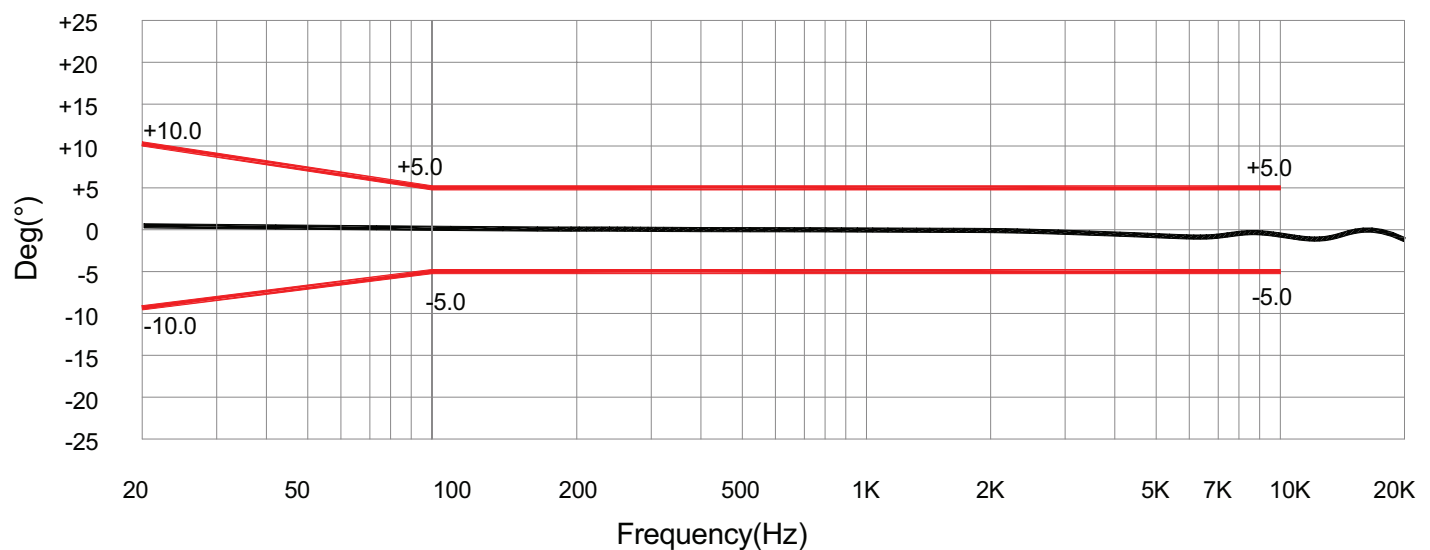


FREQUENCY RESPONSE CURVE

Frequency Response (0dB=1V/Pa)



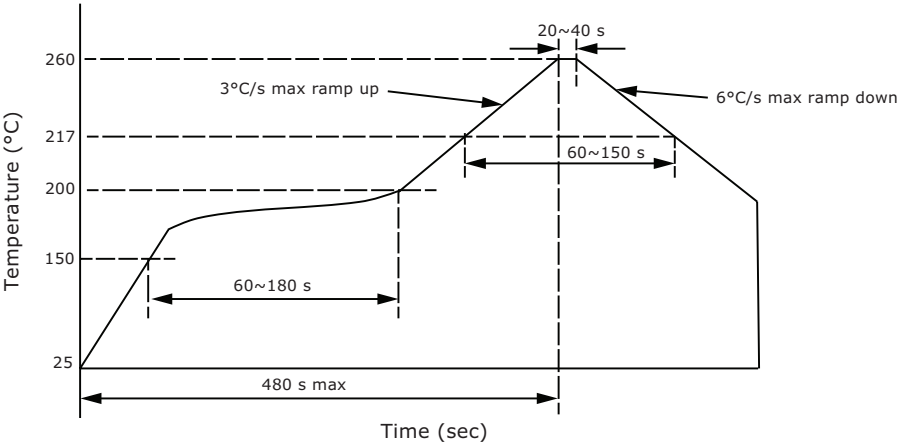
PHASE CURVE



SOLDERABILITY

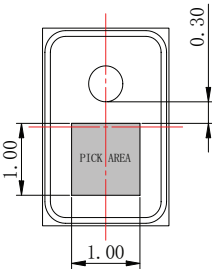
parameter	conditions/description	min	typ	max	units
reflow soldering ²	see reflow profile			260	°C

Note: 2. Not recommended to exceed 3 reflow cycles.



HANDLING RECOMMENDATIONS

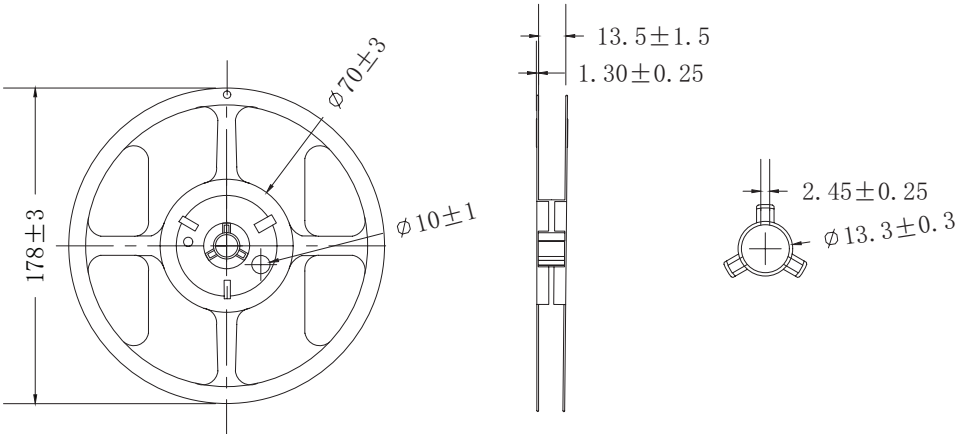
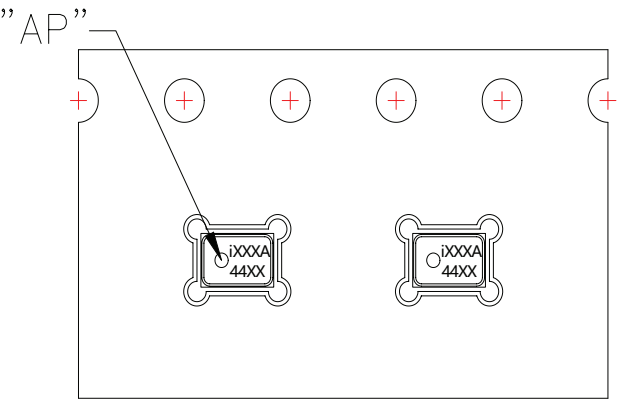
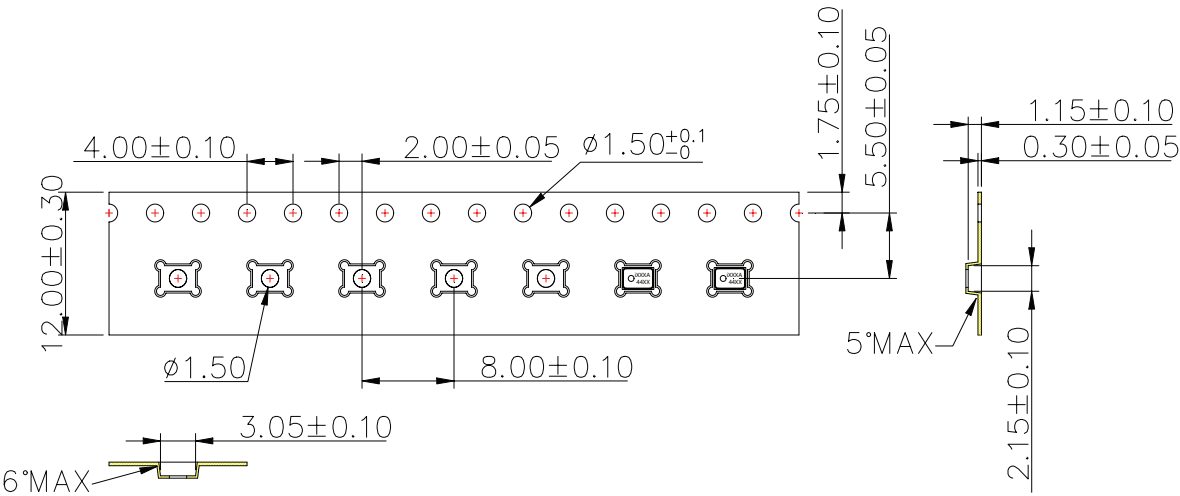
- 1. Not recommended to blow air heavily over acoustic port as debris could impact mic function.
- 2. Not suitable for wash process after reflow.
- 3. Not recommended to brush board with or without solvents after reflow process.
- 4. Not recommended to directly expose to ultrasonic processing or cleaning.
- 5. Not recommended to inserty any object in port of device at any time.
- 6. Not recommended to apply over 30 psi of air pressure into the port hole.
- 7. Not recommended to pull a vacuum over port hole.
- 8. Not recommended to apply a vacuum when repackaging into sealed bag a rate faster than 0.5 atm/sec.
- 9. Not recommended to clean table or carried plate with air guarding system that could induce particle floating inside mic.



Recommended Vacuum Nozzle Pickup
Top View

PACKAGING

parameter	conditions/description	min	typ	max	units
reel size	Ø178 mm				
reel QTY	1,000 pcs per reel				
carton size	415 x 235 x 215 mm				
carton QTY	20,000 pcs				



REVISION HISTORY

rev.	description	date
1.0	initial release	09/14/2026

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



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

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