

MODEL: CMR-4015-44-SP | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE**FEATURES**

- noise cancelling
- 4 mm diameter
- solder pad

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
directivity	noise cancelling				
sensitivity [S]	at 1 kHz, 0 dB = 1 V/Pa	-47	-44	-41	dB
standard operating voltage [Vs]		1.0		5.0	V
current consumption [I _{oss}]	Vs = 2.0 Vdc, RL = 2.2 kΩ			500	μA
sensitivity reduction [ΔS-Vs]	Vs = 2.0 ~ 1.5 Vdc			-3	dB
frequency [f]		100		10,000	Hz
signal to noise ratio [S/N]	f = 1 kHz, A-weighted	55			dBA
total harmonic distortion [THD]	at 94 dB SPL, 1 kHz			1	%
acoustic overload point [AOP]				120	dB SPL
output impedance [Z _{out}]	f = 1 kHz			2.2	kΩ
dimensions	Ø4.0 x 1.5				mm
material	Al-Mg alloy				
terminal	solder pads				
weight			0.07		g
operating temperature		-40		85	°C
storage temperature		-40		85	°C
RoHS	yes				

Notes:

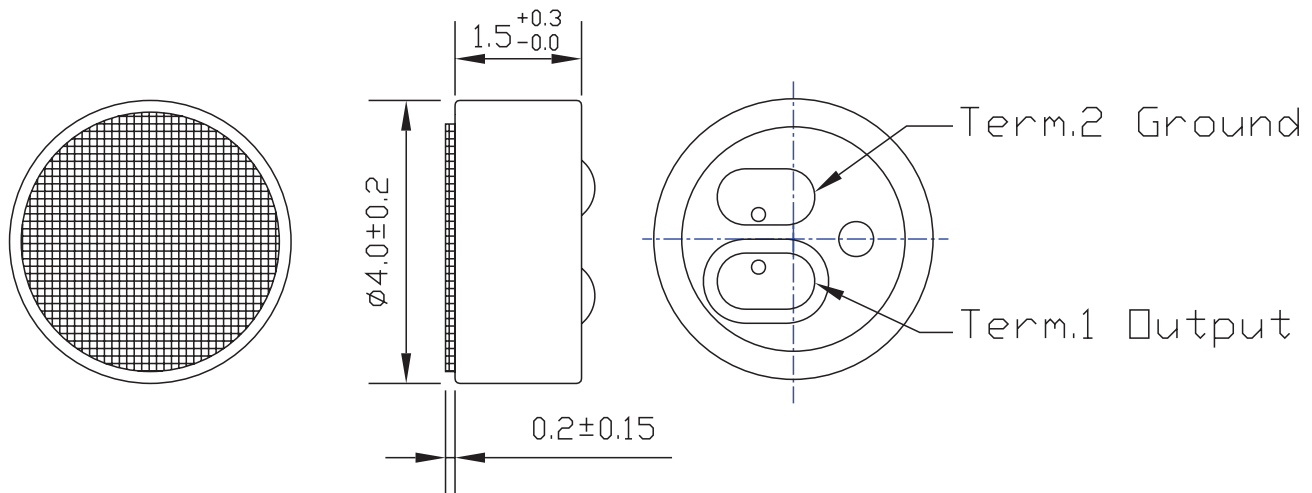
1. We use the "Pascal (Pa)" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa)
2. All specifications measured at 20±2°C, humidity at 65±5%, unless otherwise noted.

SOLDERABILITY

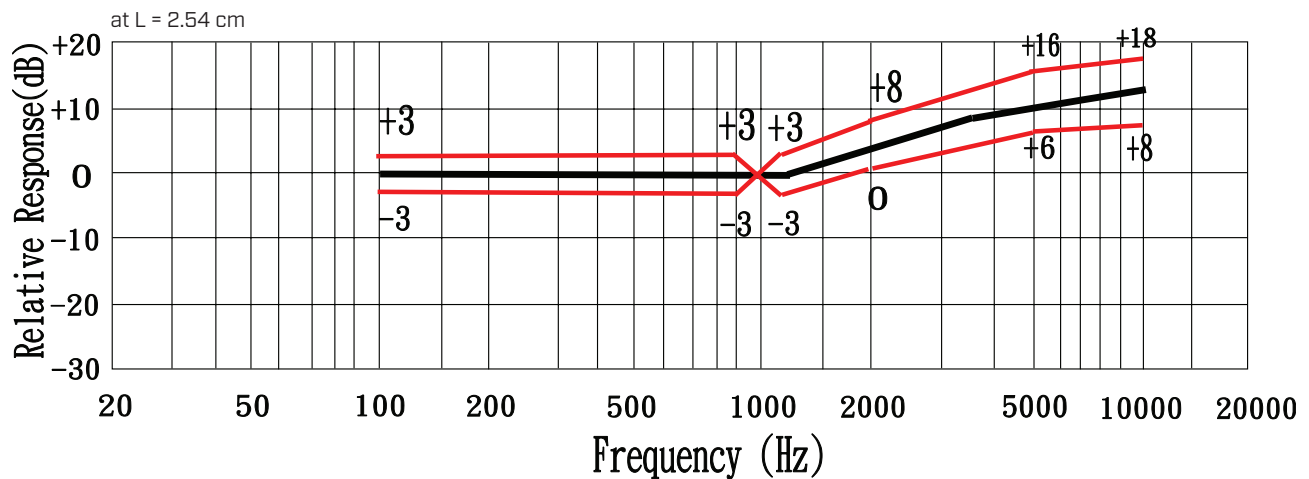
parameter	conditions/description	min	typ	max	units
hand soldering	for 1-2 seconds			320	°C

MECHANICAL DRAWING

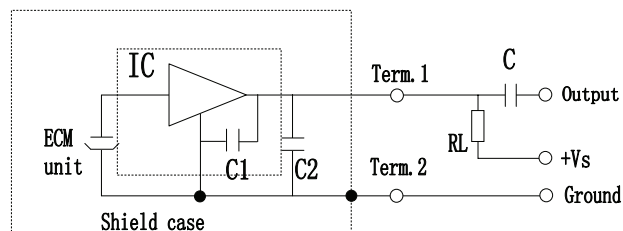
units: mm



FREQUENCY RESPONSE CURVE



APPLICATION CIRCUIT

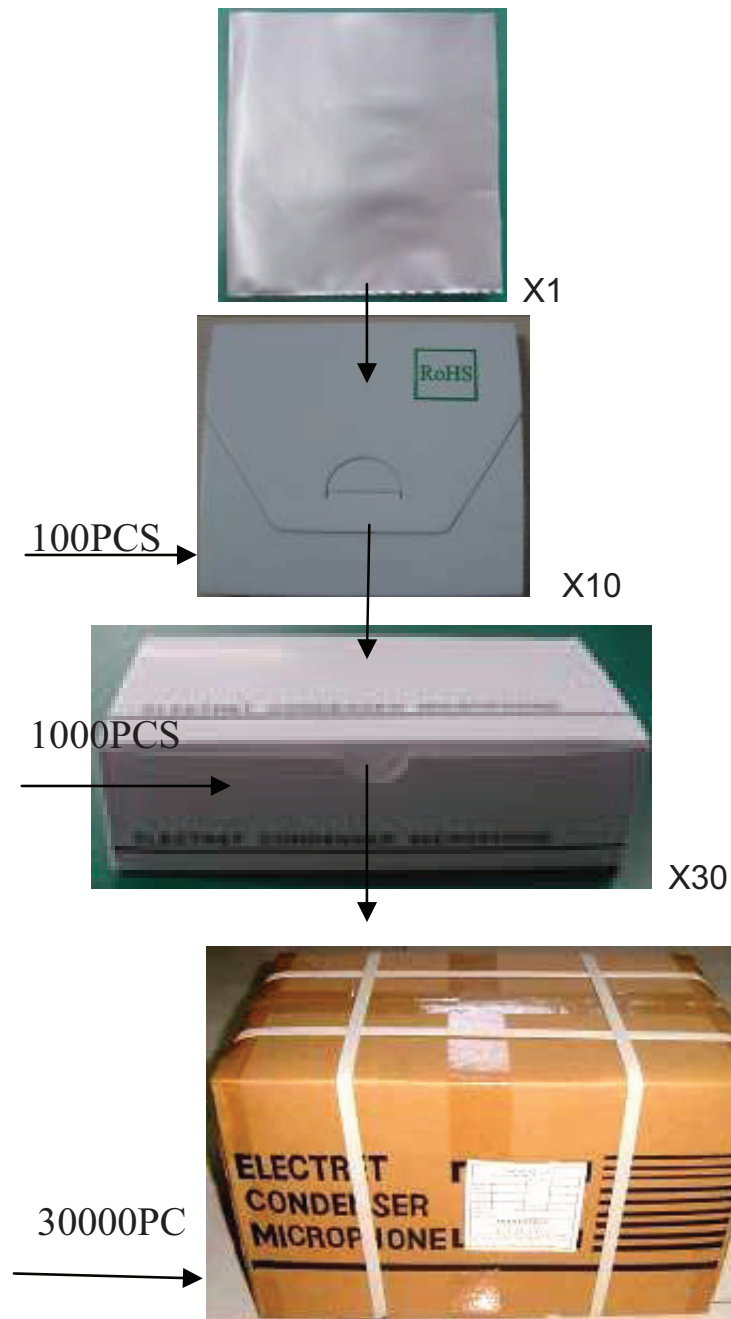


$R_L = 2.2 \text{ k}\Omega$ $V_s = 2.0 \text{ V}$ $C_2 = 33 \text{ pF}$
 $C = 1 \text{ }\mu\text{F}$ $C_1 = 10 \text{ pF}$

PACKAGING

units: mm

Anti-Static Bag: 100 x 100 x 2 mm
Inner Box Size: 205 x 105 x 50 mm
Outer Box Size: 550 x 230 x 235 mm
Small Box QTY: 100 pcs per box
Inner Box QTY: 1,000 pcs per box
Outer Box QTY: 30,000 pcs per box



REVISION HISTORY

rev.	description	date
1.0	initial release	08/29/2022

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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