

MODEL: CMC-4015-40L170 | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

FEATURES

- omnidirectional
- low profile
- wide temperature range
- IP65


SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity [S]	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-43	-40	-37	dB
standard operating voltage [Vs]			2		Vdc
max operating voltage				10	Vdc
current consumption [IDSS]	Vs = 2.0 Vdc, RL = 2.2 kΩ			500	μA
sensitivity reduction [ΔS-Vs]	f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.5 Vdc		-3		dB
frequency [f]		100		20,000	Hz
current consumption [IDSS]	Vs = 2.0 Vdc, RL = 2.2 kΩ			500	μA
signal to noise ratio [S/N]	f = 1 kHz, 1 Pa, A-weighted		60		dBA
output impedance [Zout]	f = 1 kHz, 1 Pa		2.2		kΩ
dimensions	Ø4.0 x 1.5				mm
material	Al				
terminal	wire leads with connector				
weight			0.3		g
operating temperature		-40		70	°C
storage temperature		-40		70	°C
RoHS	yes				
IP level	IP65 [IEC standard 529 edition 2.0 (1989)]				

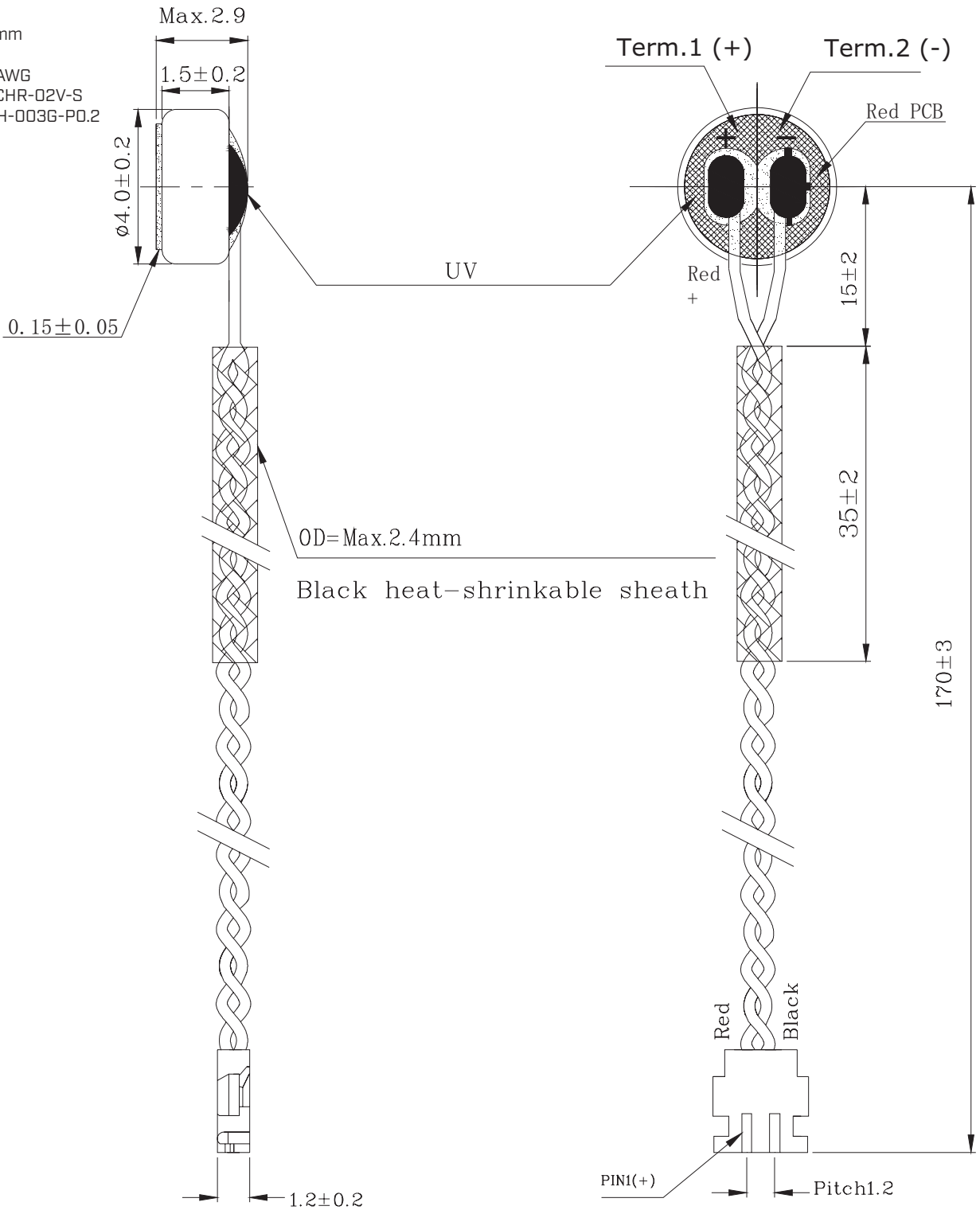
Notes:

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 [1V/Pa]
2. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

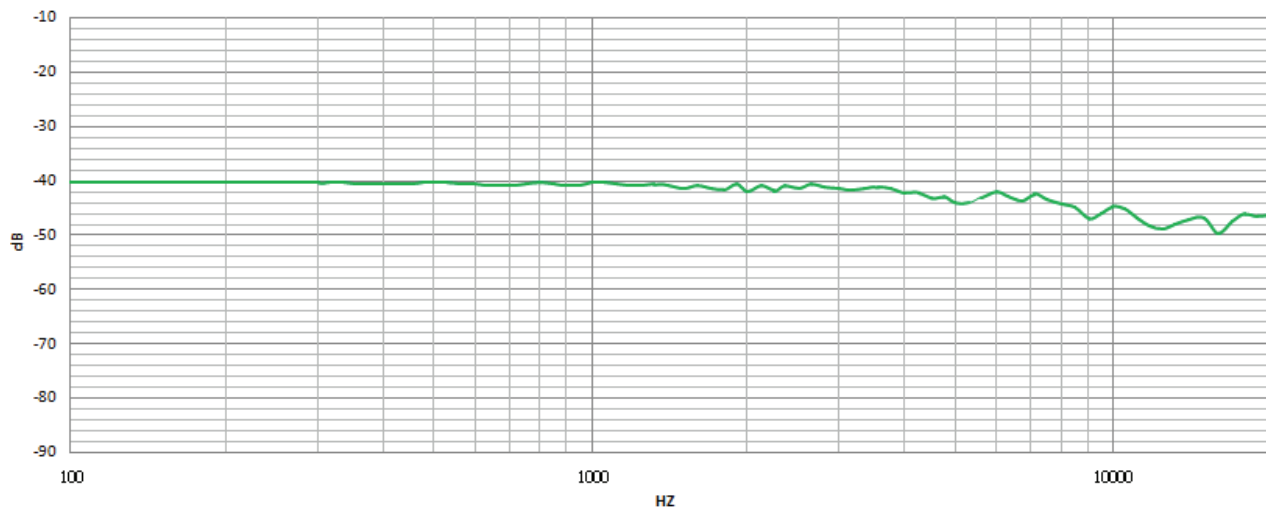
MECHANICAL DRAWING

units: mm
tolerance: ± 0.20 mm

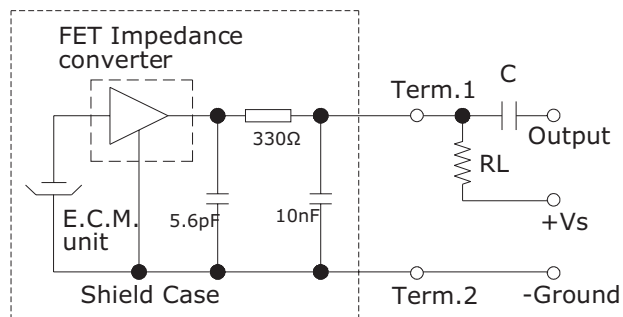
wire: UL 1571, 30 AWG
connector: JST ACHR-02V-S
contact: JST SACH-003G-P0.2



FREQUENCY RESPONSE CURVE



APPLICATION CIRCUIT

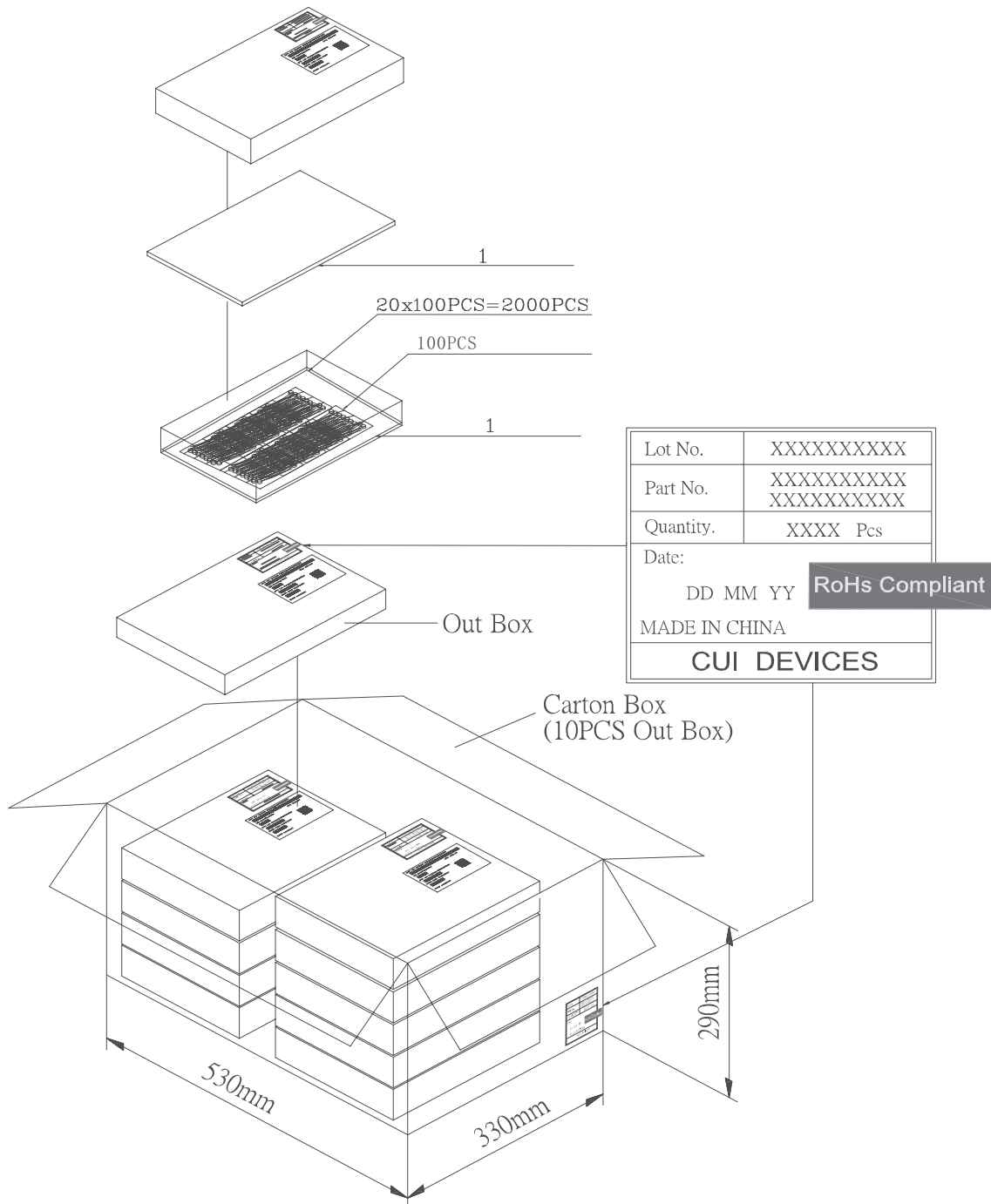


$R_L = 2.2 \text{ k}\Omega$
 $C = 1 \mu\text{F}$

PACKAGING

units: mm

Inner Box Size: 310 x 248 x 49 mm
 Outer Box Size: 530 x 330 x 290 mm
 Inner Box QTY: 2,000 pcs per box
 Outer Box QTY: 20,000 pcs per box



REVISION HISTORY

rev.	description	date
1.0	initial release	05/15/2023

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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