CUI Devices is now Same Sky! Learn More

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

FEATURES

- ominidirectional
- low profile
- wide temperature range
- IP65



RoHS 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))				

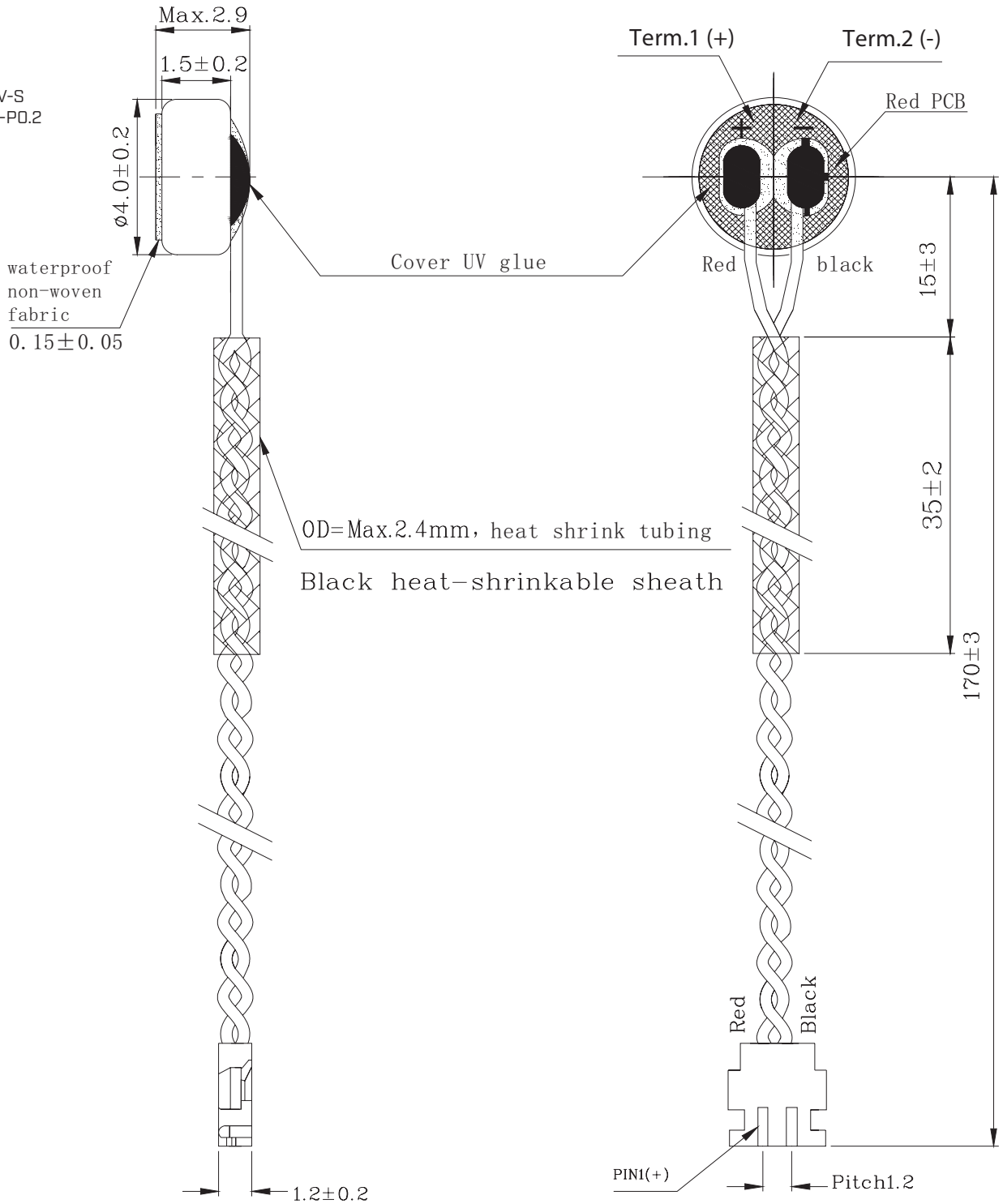
Notes:
1. We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1V/Pa)
2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

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MECHANICAL DRAWING

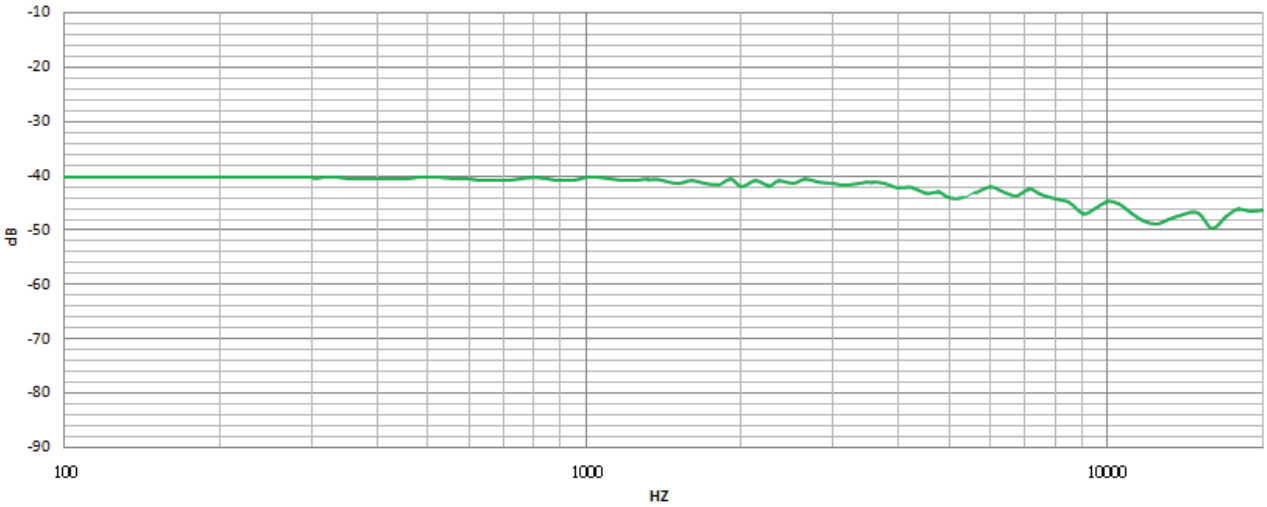
units: mm
tolerance: ±0.20 mm

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

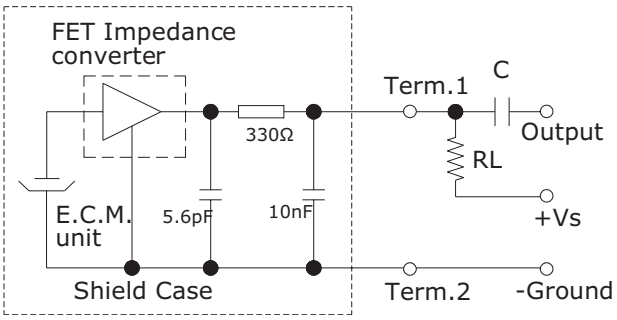


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FREQUENCY RESPONSE CURVE



APPLICATION CIRCUIT



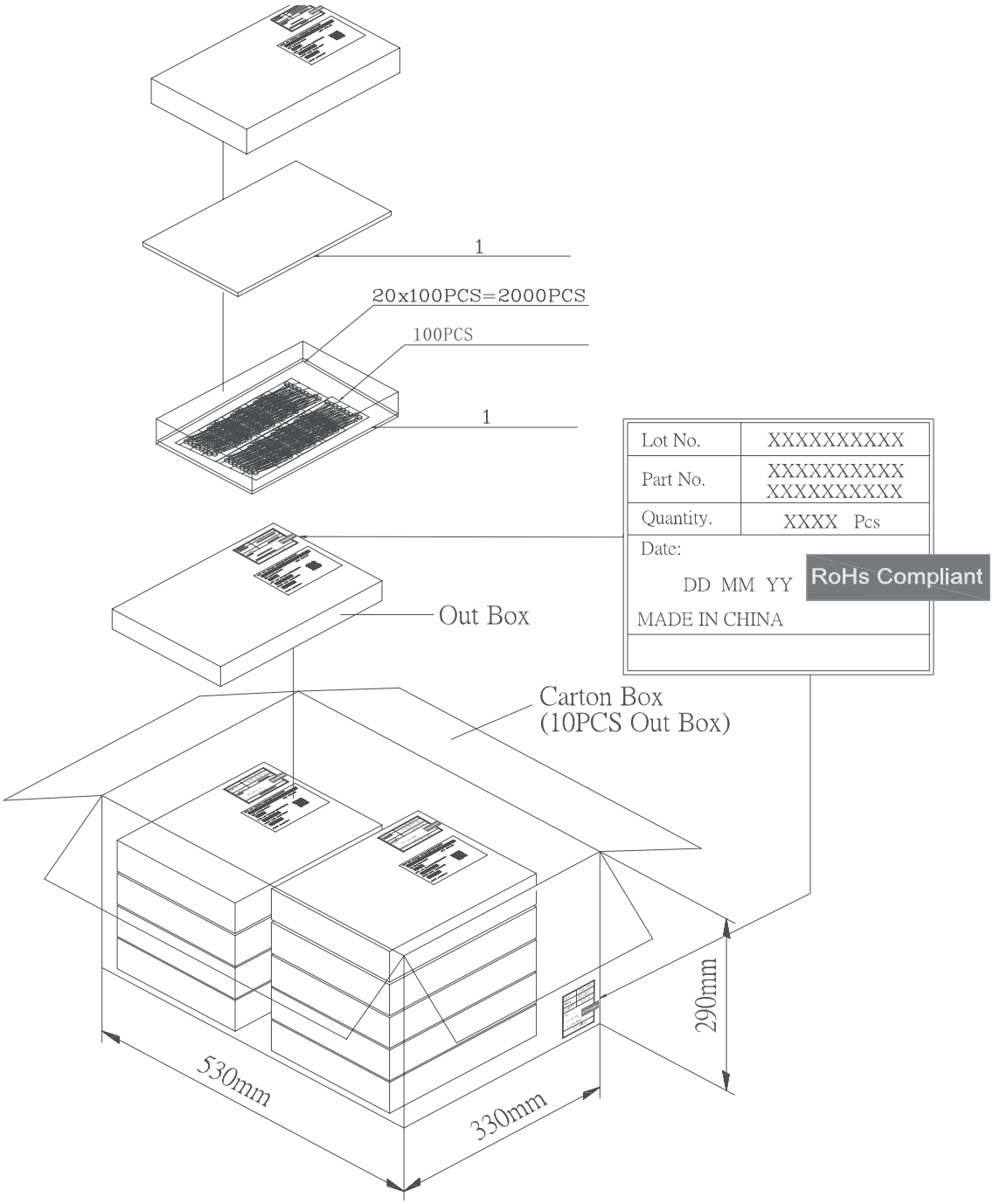
RL = 2.2 kΩ
C = 1 µF

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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



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REVISION HISTORY

rev.	description	date
1.0	initial release	05/15/2023
1.01	CUI Devices rebranded to Same Sky	09/11/2024
1.02	adjusted heat shrink tubing location tolerance	09/16/2025

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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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