

date 05/15/2023 page 1 of 5

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

FEATURES

- ominidirectional
- low profile
- · wide temperature range
- IP65







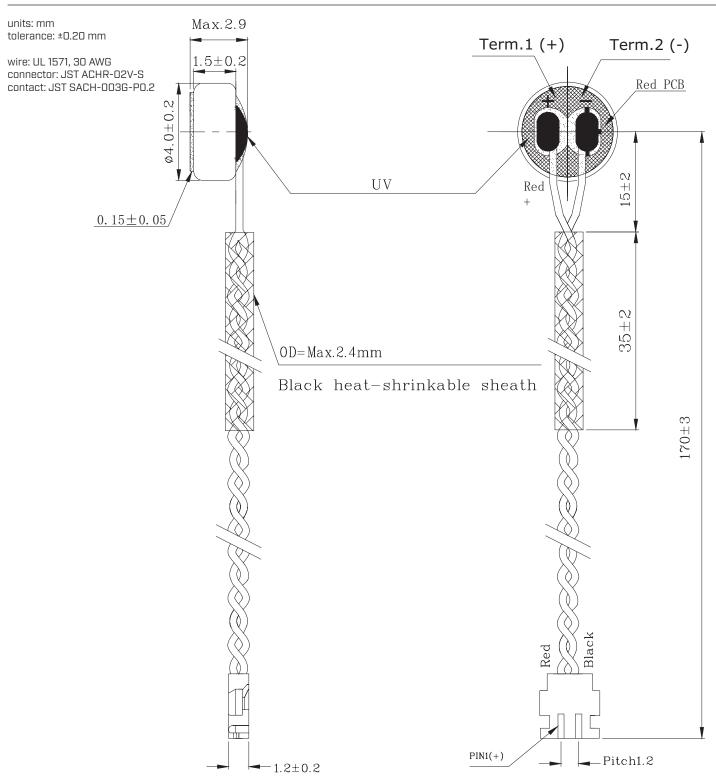
SPECIFICATIONS

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 k Ω			500	μΑ
sensitivity reduction (AS-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 k Ω			500	μΑ
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))				

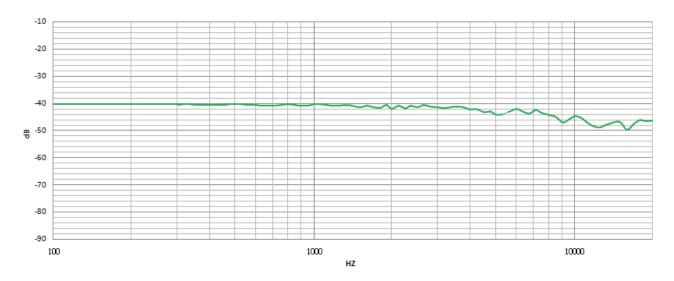
Notes:

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

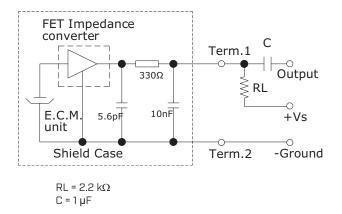
MECHANICAL DRAWING



FREQUENCY RESPONSE CURVE



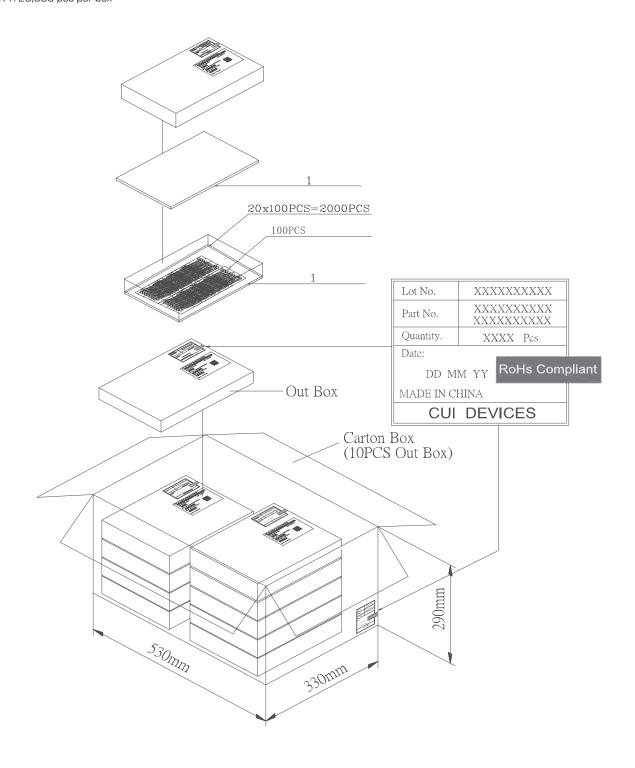
APPLICATION CIRCUIT



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.

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

CUI Devices 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.