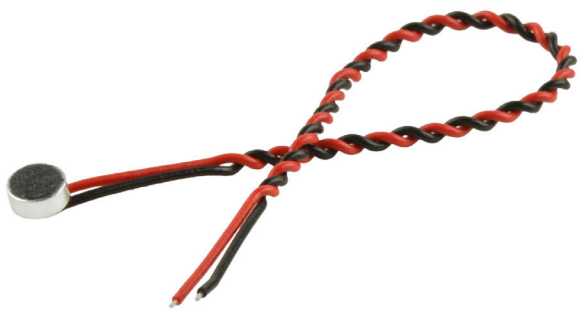
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MODEL: CMC-4015-25L100 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- omnidirectional
- -25 dB sensitivity rating
- low profile
- wide temperature range
- IP65



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-28	-25	-22	dB
standard operating voltage (Vs)			3		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	f = 1 kHz, 1 Pa, Vs = 3.0 ~ 1.0 Vdc		-3		dB
frequency (f)		100		20,000	Hz
current consumption (IDSS)	Vs = 3.0 Vdc, RL = 2.2 kΩ			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		62		dBA
dimensions	Ø4.0 x 1.5				mm
material	Al				
terminal	wire leads				
weight				0.25	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.

SOLDERABILITY

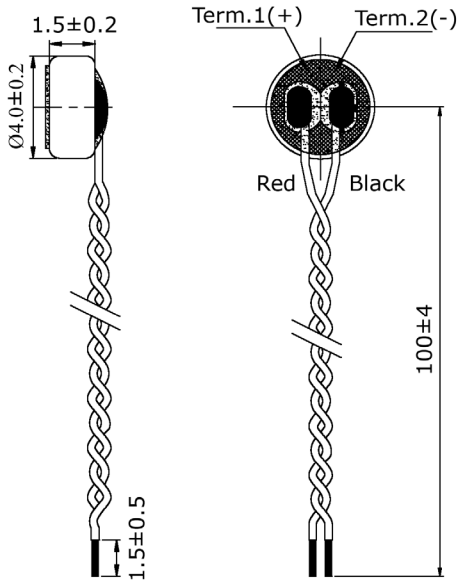
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	310	320	330	°C

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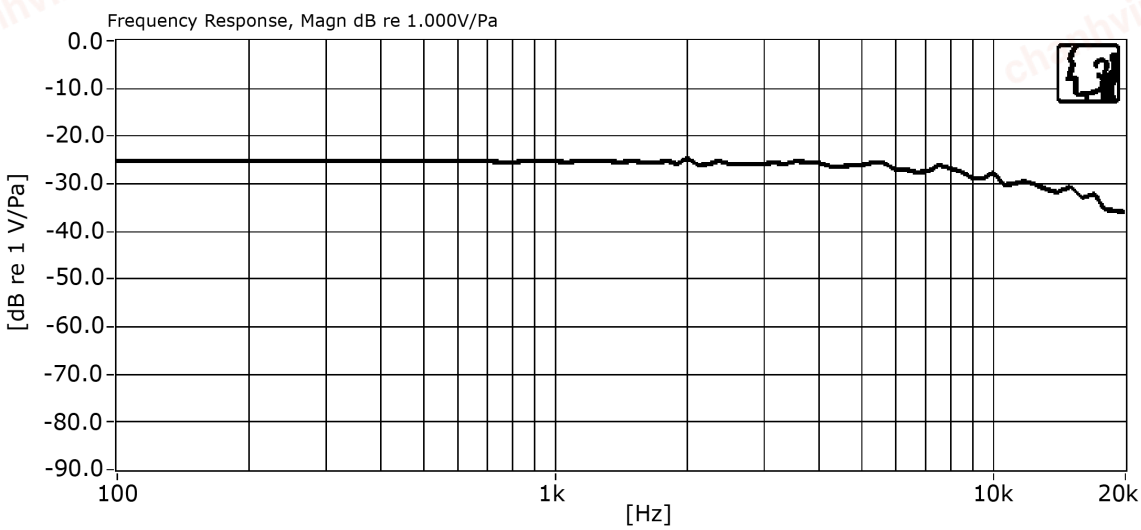
MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

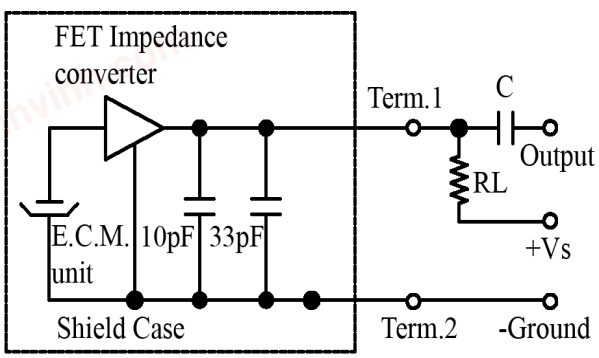
wire: UL1571 LF 30 AWG



FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT



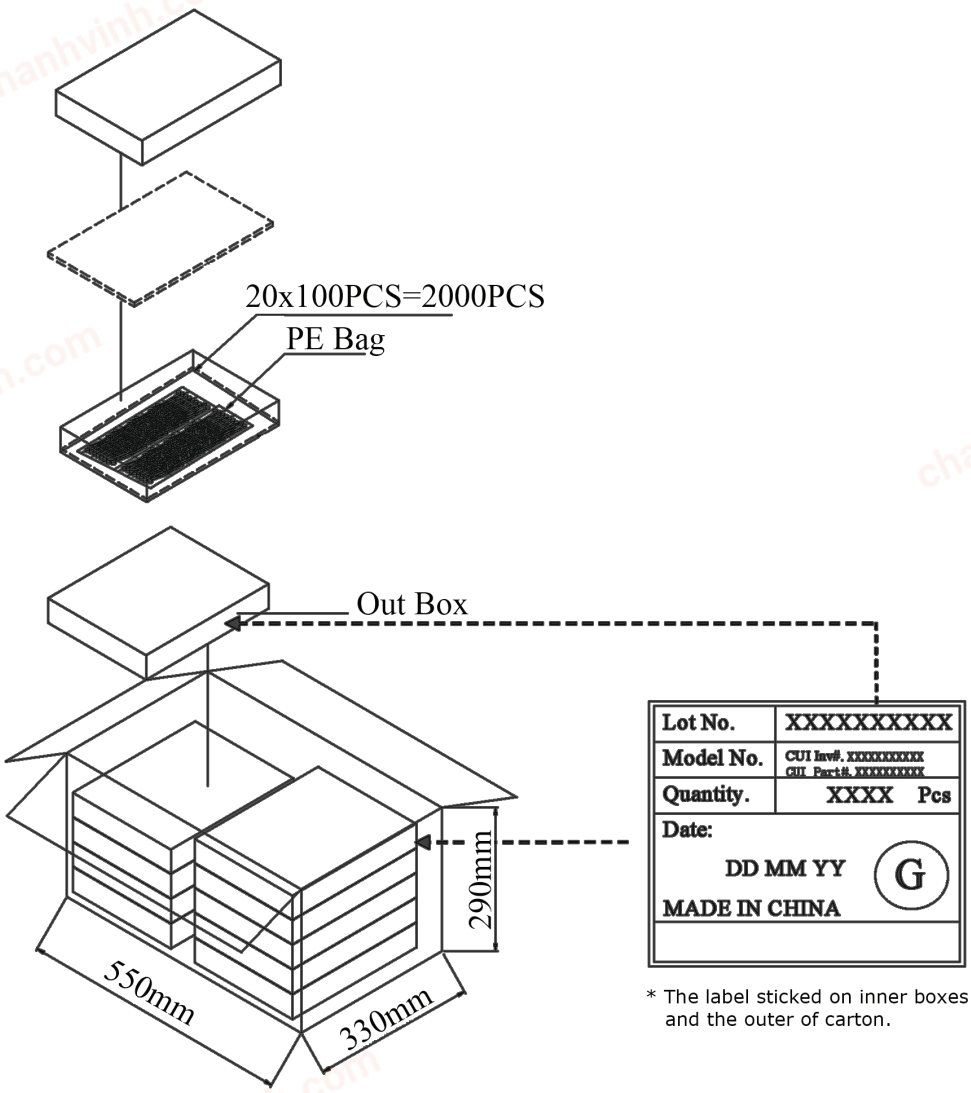
RL = 2.2 kΩ
C = 1 µF

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PACKAGING

units: mm

Out Box Size: 310 x 248 x 49 mm
Carton Box Size: 550 x 330 x 290 mm
Out Box QTY: 2,000 pcs per box
Carton Box QTY: 20,000 pcs per carton



* The label sticked on inner boxes and the outer of carton.

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REVISION HISTORY

rev.	description	date
1.0	initial release	11/28/2016
1.01	brand update	01/15/2020
1.02	logo, datasheet style update	08/05/2022

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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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.

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