

MODEL: CMC-4015-130T | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- high AOP of 130 dB
- omnidirectional
- 4 mm diameter
- solder terminals
- IP67 rated



SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity [S]	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-45	-42	-39	dB
standard operating voltage [Vs]			2		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 = 2.0 ~ 1.0 Vdc		-3		dB
frequency (f)		100		20,000	Hz
current consumption [IOSS]	Vs = 2.0 Vdc, RL = 2.2 kΩ		0.5		mA
signal to noise ratio [S/N]	f = 1 kHz, 1 Pa, A-weighted		60		dBA
acoustic overload point [AOP]	at 1 kHz, THD <10%			130	dB SPL
total harmonic distortion	at 1 kHz, 94 dB SPL			1	%
dimensions	Ø4.0 x 1.5				mm
material	Al				
terminal	solder pads				
weight				0.1	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				
IP level	IP67 [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 [1 V/Pa]

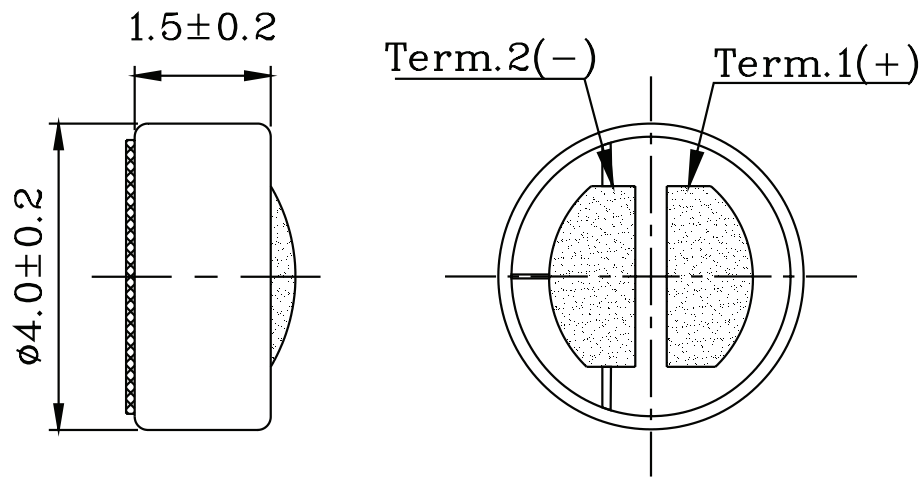
2. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

SOLDERABILITY

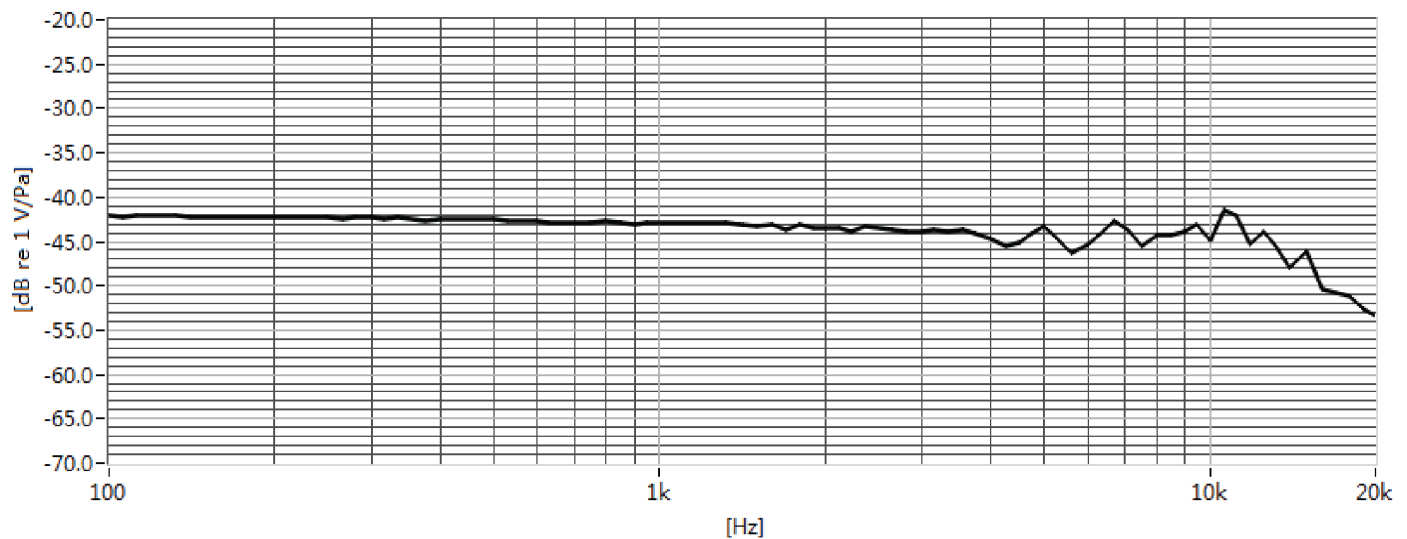
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	340	350	360	°C

MECHANICAL DRAWING

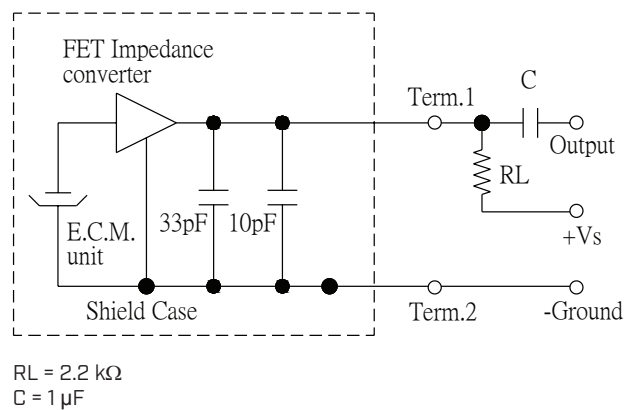
units: mm
tolerance: ± 0.25 mm



FREQUENCY RESPONSE CURVE



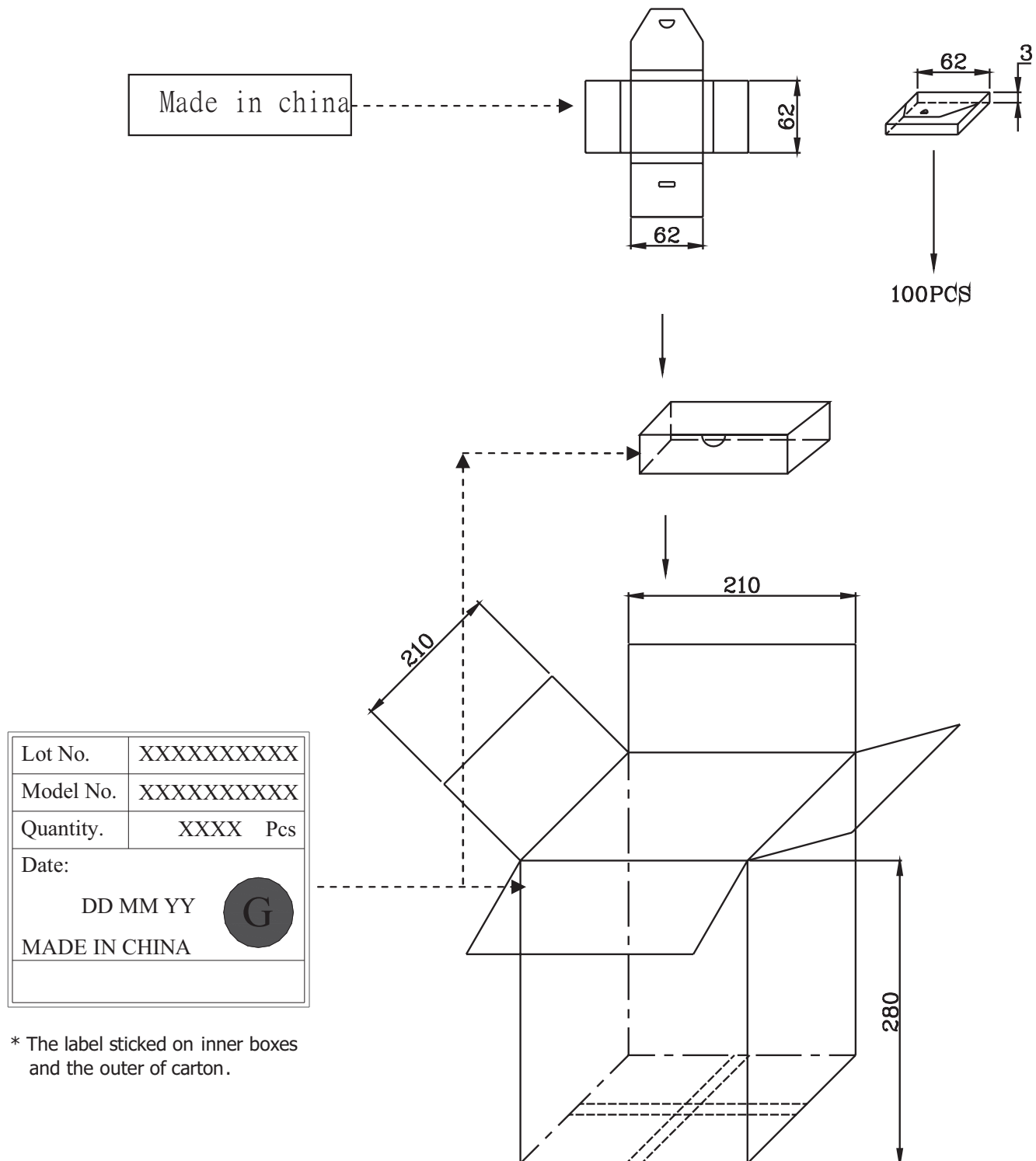
MEASUREMENT CIRCUIT



PACKAGING

units: mm

Inner Box Size: 62 x 62 x 3 mm
Middle Box Size: 125 x 65 x 28 mm
Carton Size: 210 x 210 x 280 mm
Inner Box QTY: 100 pcs
Middle Box QTY: 1,000 pcs
Carton QTY: 10,000 pcs per carton



REVISION HISTORY

rev.	description	date
1.0	initial release	09/29/2017
1.01	added polarity details to drawing	01/23/2019
1.02	updated datasheet	03/14/2019
1.03	brand update	01/15/2020
1.04	logo, datasheet style update	08/05/2022

The revision history provided is for informational purposes only and is believed to be accurate.



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