

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

- omnidirectional
- -25 dB sensitivity rating
- 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	-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		k Ω
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 [I _{0SS}]	Vs = 3.0 Vdc, RL = 2.2 k Ω			0.5	mA
signal to noise ratio [S/N]	f = 1 kHz, 1 Pa, A-weighted		62		dBA
dimensions	$\varnothing 4.0 \times 1.5$				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 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.

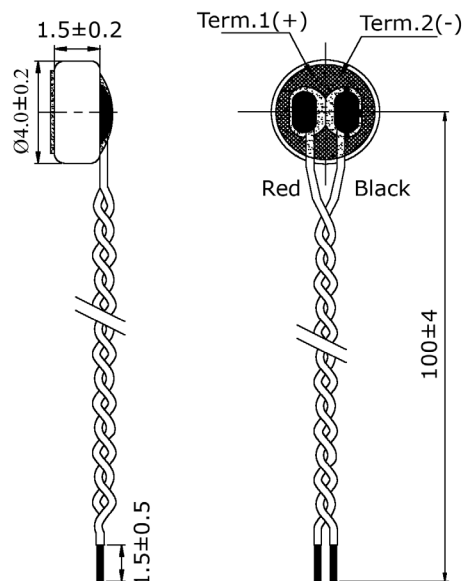
SOLDERABILITY

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

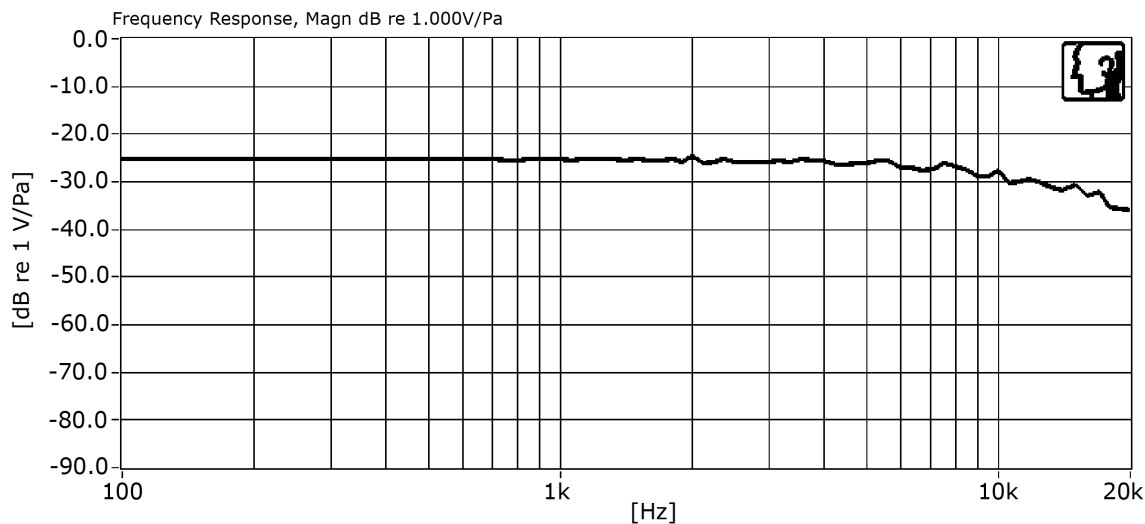
MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

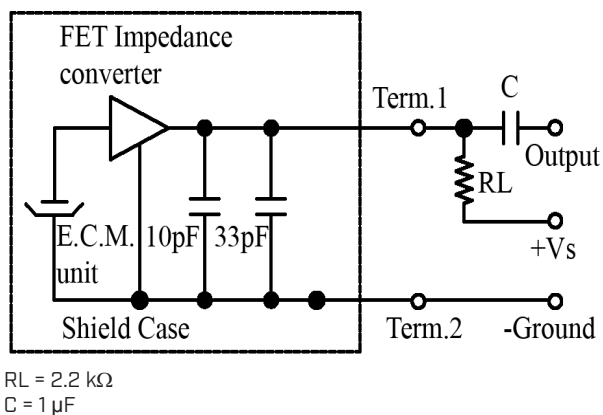
wire: UL1571 LF 30 AWG



FREQUENCY RESPONSE CURVE



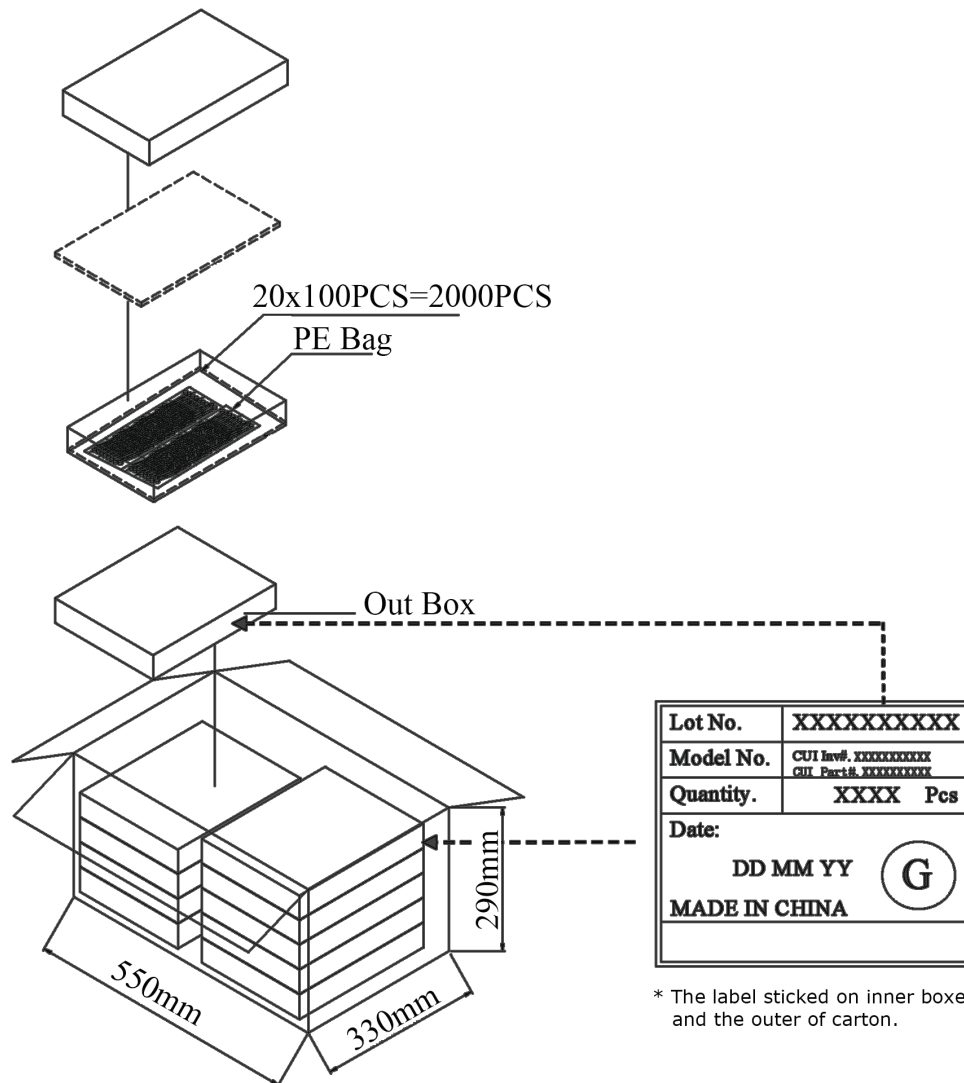
MEASUREMENT CIRCUIT



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



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.



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