

MODEL: CMC-6027-42T | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE**FEATURES**

- omnidirectional
- 2.7 mm height
- terminal mount

**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 ~ 1.5 Vdc		-3		dB
frequency [f]		100		20,000	Hz
current consumption [I _{0SS}]	Vs = 2.0 Vdc, RL = 2.2 kΩ			0.5	mA
signal to noise ratio [S/N]	f = 1 kHz, 1 Pa, A-weighted		57		dBA
dimensions	Ø6.0 x 2.7				mm
material	Al				
terminal	solder pads				
weight				0.18	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				

Notes:

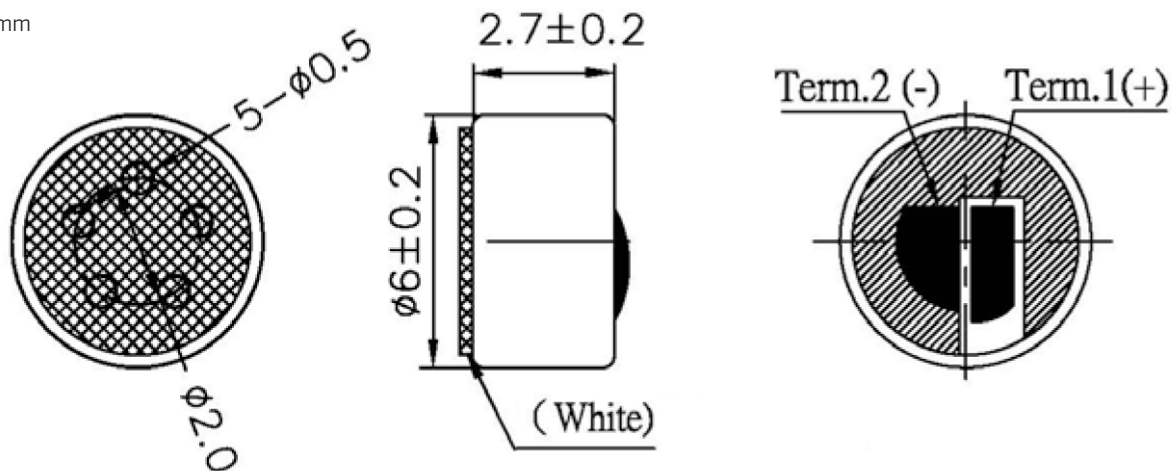
1. We use the "Pascal [Pa]" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa)
2. All specifications measured at 5-35°C,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

SOLDERABILITY

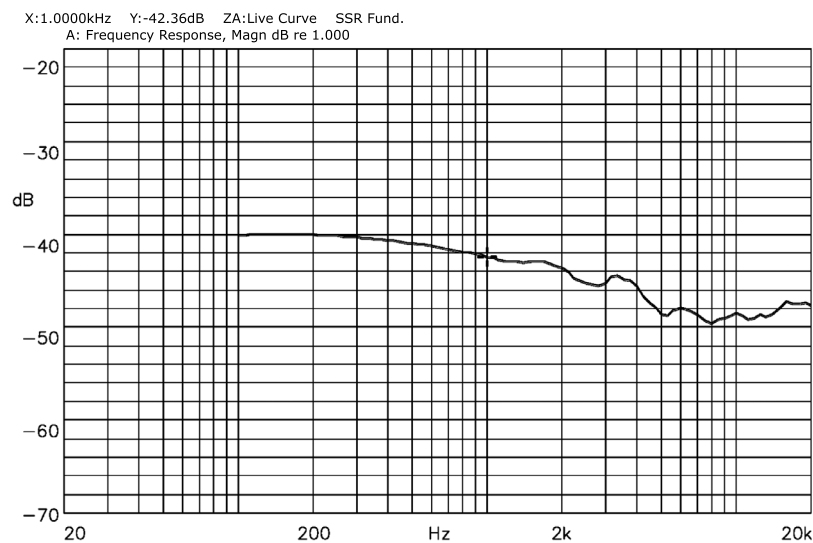
parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	270	280	290	°C

MECHANICAL DRAWING

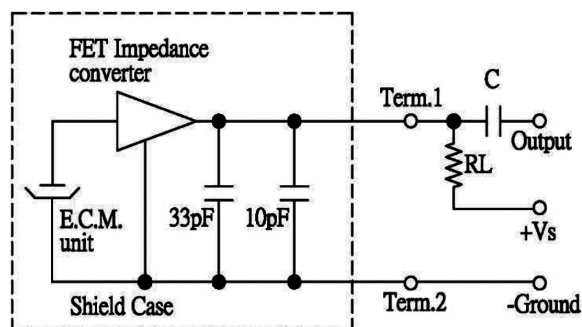
units: mm
tolerance: ± 0.2 mm



FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT

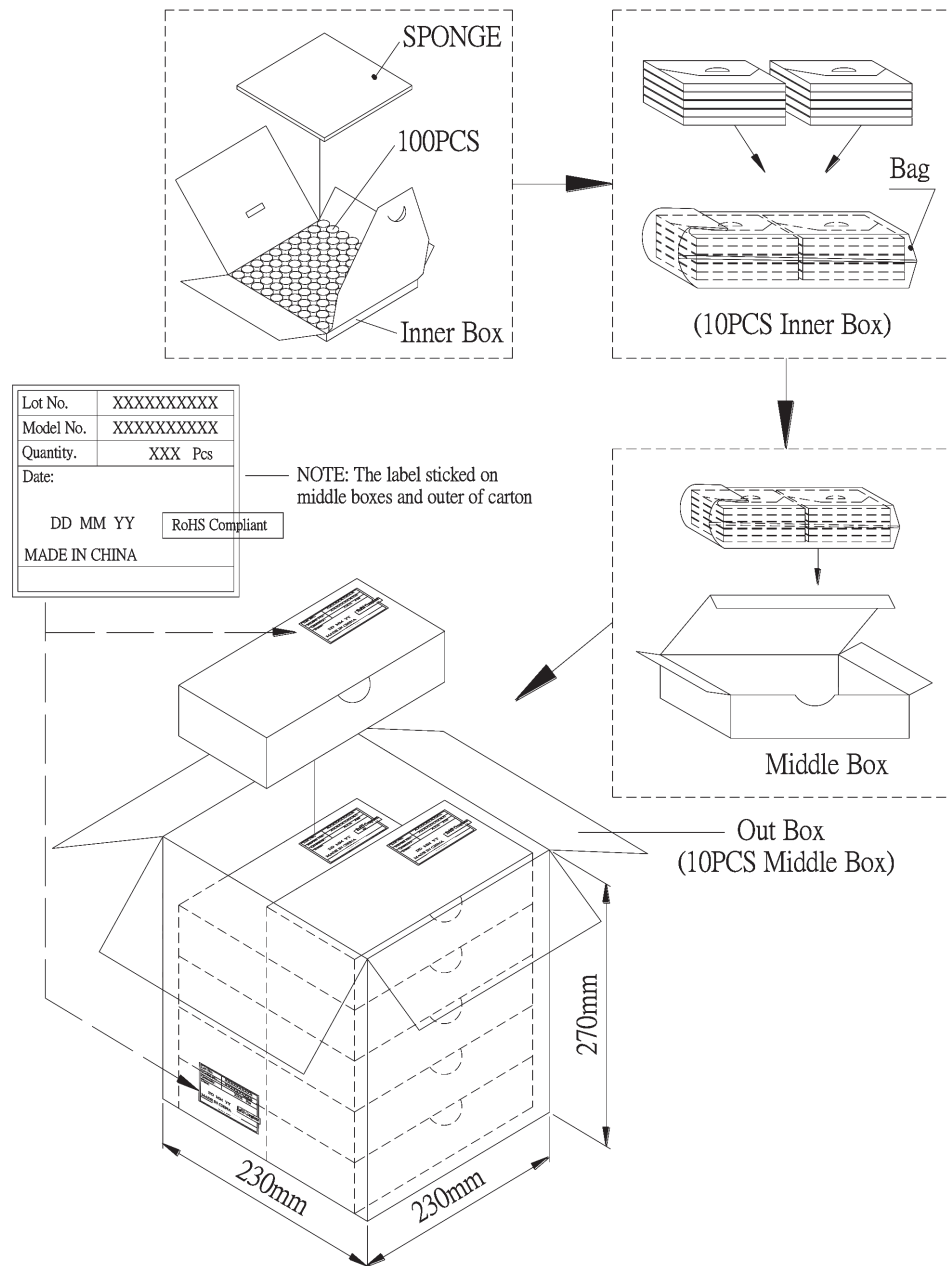


$RL = 2.2 \text{ k}\Omega$
 $C = 1 \text{ }\mu\text{F}$

PACKAGING

units: mm

Inner Box Size: 100 x 100 x 8 mm
Middle Box Size: 205 x 106 x 52 mm
Outer Box Size: 230 x 230 x 270 mm
Inner Box QTY: 100 pcs per box
Middle Box QTY: 1,000 pcs per box
Outer Box QTY: 10,000 pcs per box



REVISION HISTORY

rev.	description	date
1.0	initial release	11/04/2016
1.01	altered sound holes	07/03/2019
1.02	brand update	01/09/2020
1.03	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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