

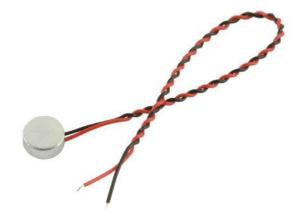
date 08/05/2022

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# MODEL: CMC-6027-42L100 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- omnidirectional
- IP57
- 100 mm lead wires





#### **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 (IDSS)	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	wire leads				
weight				0.35	g
operating temperature		-30		70	°C
storage temperature		-30		70	°C
RoHS	yes				
IP level IP57	(IEC standard 529 edition 2.0 (1989)				

Notes:

## **SOLDERABILITY**

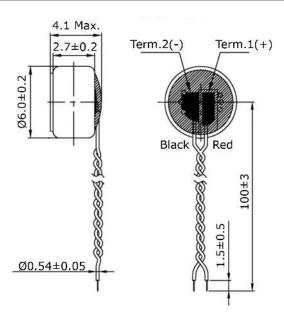
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	310	320	330	°C

<sup>1.</sup> 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.

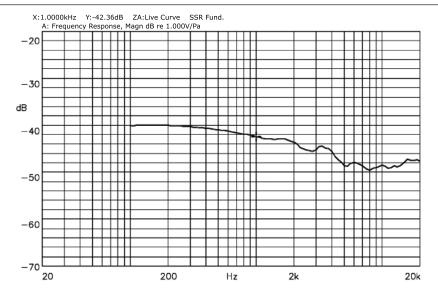
## **MECHANICAL DRAWING**

units: mm

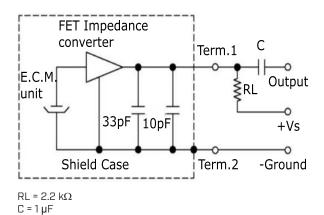
wire: UL1571 LF 32 AWG



# FREQUENCY RESPONSE CURVE



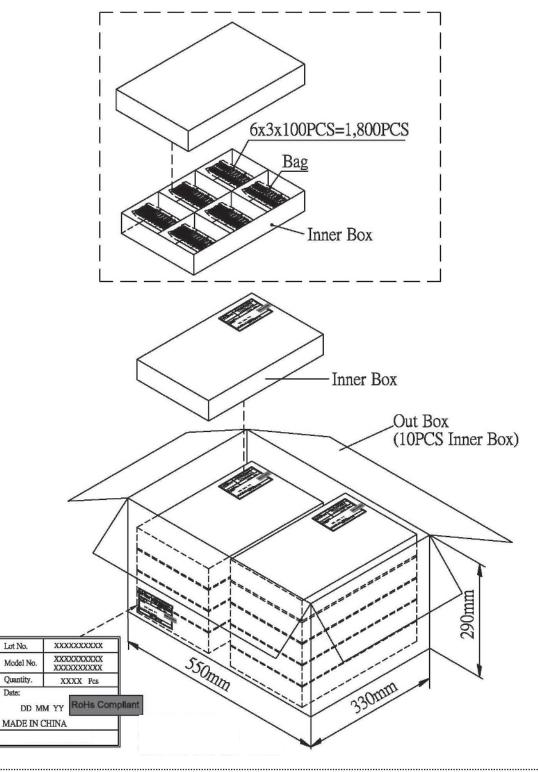
## **MEASUREMENT CIRCUIT**



## **PACKAGING**

units: mm

Inner Box Size: 310 x 248 x 49 mm Outer Box Size: 550 x 330 x 290 mm Inner Box QTY: 1,800 pcs per box Outer Box QTY: 18,000 pcs per box



#### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	11/07/2016	
1.01	brand update	01/13/2020	
1.02	updated operating and storage temperature ranges	04/15/2020	
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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