

date 11/28/2016

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## MODEL: CMC-6013-38L100 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- omnidirectional
- low profile
- 100 mm lead wires





#### **SPECIFICATIONS**

OF EGII IGATIONS							
parameter	conditions/description	min	typ	max	units		
directivity	omnidirectional						
sensitivity (S)	f = 1  kHz, 1  Pa, 0  dB = 1  V/Pa	-41	-38	-35	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)	$f = 1 \text{ kHz}, 1 \text{ Pa, Vs} = 2.0 \sim 1.5 \text{ Vdc}$		-3		dB		
frequency (f)		100		20,000	Hz		
current consumption (IDSS)	$Vs = 2.0 Vdc$ , $RL = 2.2 k\Omega$			0.15	mA		
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		60		dBA		
dimensions	Ø6.0 x 1.3				mm		
material	brass						
terminal	wire leads						
weight				0.25	g		
operating temperature		-20		70	°C		
storage temperature		-20		70	°C		
RoHS	2011/65/EU						

Notes:

### **SOLDERABILITY**

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

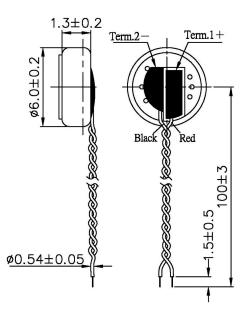
<sup>1.</sup> We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

<sup>20</sup> dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa) 2. All specifications measured at  $5\sim35^{\circ}$ C, humidity at  $45\sim85^{\circ}$ , under  $86\sim106$  kPa pressure, unless otherwise noted.

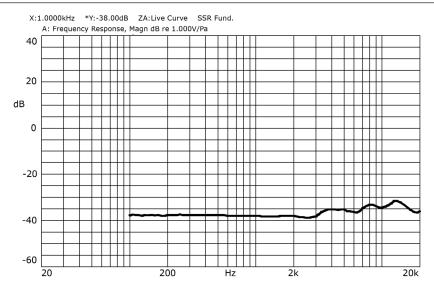
### **MECHANICAL DRAWING**

units: mm

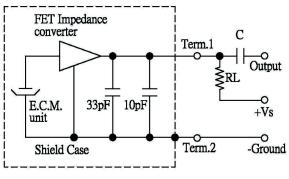
wire: UL1571 LF 32 AWG



# **FREQUENCY RESPONSE CURVE**



### **MEASUREMENT CIRCUIT**



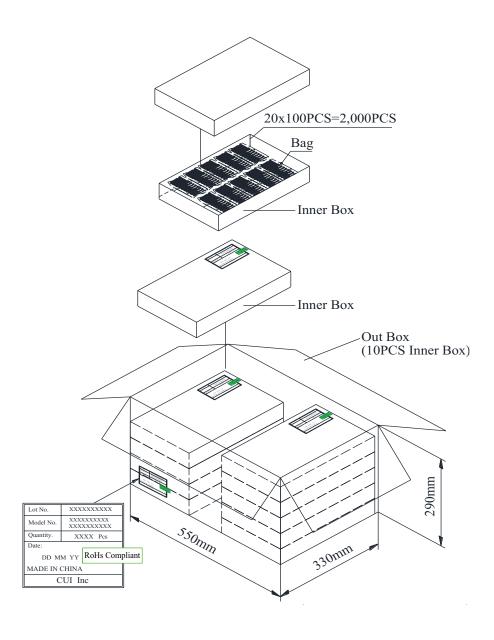
 $RL = 2.2 k\Omega$ 

 $C = 1 \mu F$ 

# **PACKAGING**

units: mm

Inner Box Size: 310 x 248 x 49 mm Outer Box Size: 550 x 330 x 290 mm Inner Box QTY: 2,000 pcs per box Outer Box QTY: 20,000 pcs per box



#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	11/28/2016

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



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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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