

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**

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 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 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

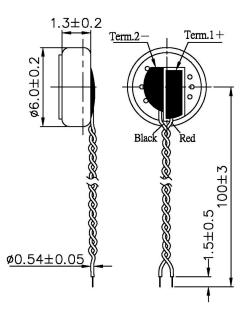
<sup>1.</sup> We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

<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.

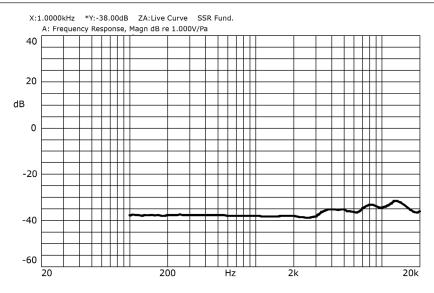
#### **MECHANICAL DRAWING**

units: mm

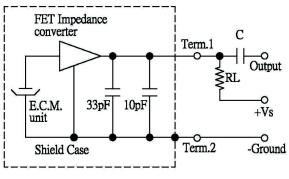
wire: UL1571 LF 32 AWG



# **FREQUENCY RESPONSE CURVE**



## **MEASUREMENT CIRCUIT**



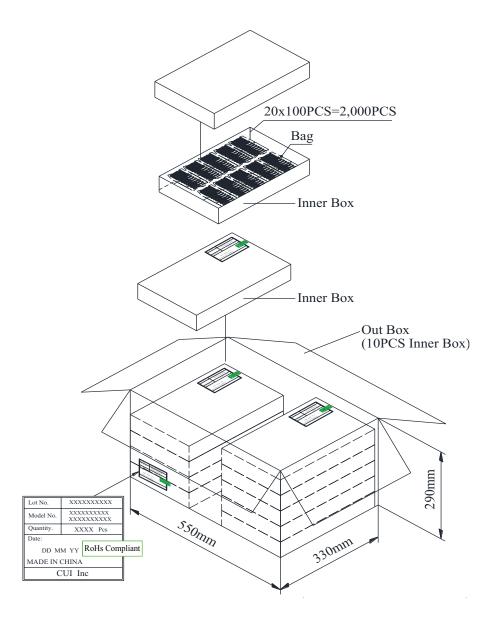
 $RL = 2.2 k\Omega$ 

 $C = 1 \mu F$ 

## **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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