

date 11/07/2016

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MODEL: CMC-6013-38T | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- omnidirectional
- low profile
- terminal mount





### **SPECIFICATIONS**

SP LOII ICATIONS			-		
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	5)		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	solder pads				
weight				0.1	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	2011/65/EU				

Notes:

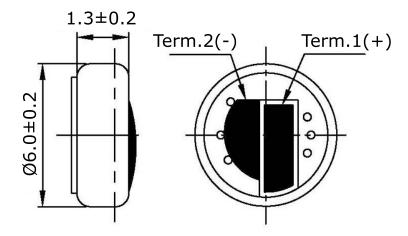
# **SOLDERABILITY**

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

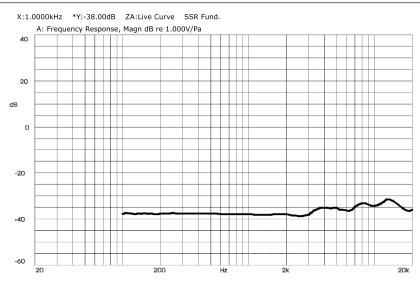
<sup>1.</sup> We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

<sup>20</sup> dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1  $V_0$ ) 40 dB (1  $V_0$ ) 2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

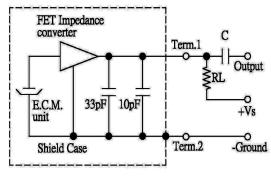
units: mm



# **FREQUENCY RESPONSE CURVE**



## **MEASUREMENT CIRCUIT**

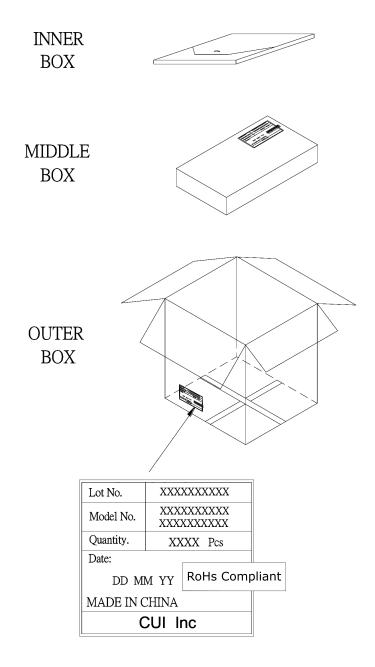


 $RL = 2.2 k\Omega$  $C = 1 \mu F$ 

### **PACKAGING**

units: mm

Inner Box Size: 62 x 62 x 3 mm Middle Box Size: 125 x 65 x 28 mm Outer Box Size: 210 x 210 x 280 mm Inner Box QTY: 100 pcs per box Middle Box QTY: 1,000 pcs per box Outer Box QTY: 40,000 pcs per box



### **REVISION HISTORY**

rev.	description	date
1.0	initial release	11/07/2016

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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