



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**MODEL:** CMC-9745-130T | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

**FEATURES**

- high maximum input SPL of 130 dB
- omnidirectional
- 9.7 mm diameter
- solder terminals
- IP67 rated


**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		60		dB
max input SPL	at 1 kHz, THD <10%			130	dB SPL
total harmonic distortion	at 1 kHz, 94 dB SPL			1	%
dimensions	Ø9.7 x 4.5				mm
material	Al				
terminal	solder pads				
weight				0.80	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	2011/65/EU				
IP level	IP67 (IEC standard 529 edition 2.0 (1989))				

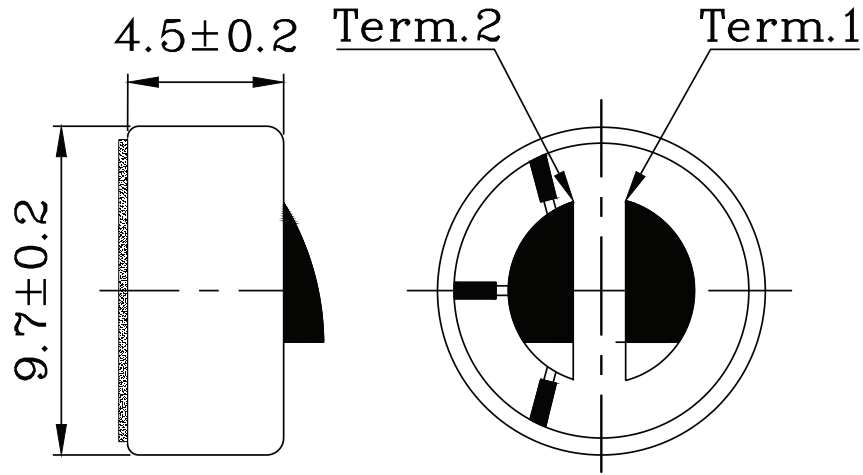
Notes: 1. We use the "Pascal (Pa)" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa)  
 2. All specifications measured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

**SOLDERABILITY**

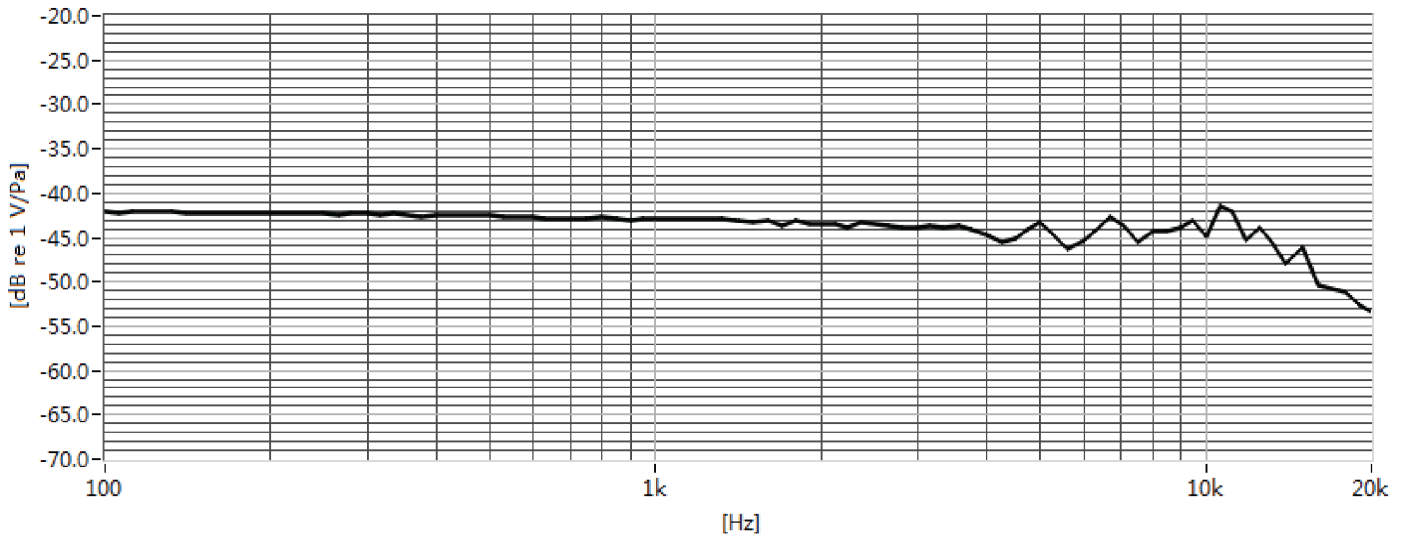
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	340	350	360	°C

## MECHANICAL DRAWING

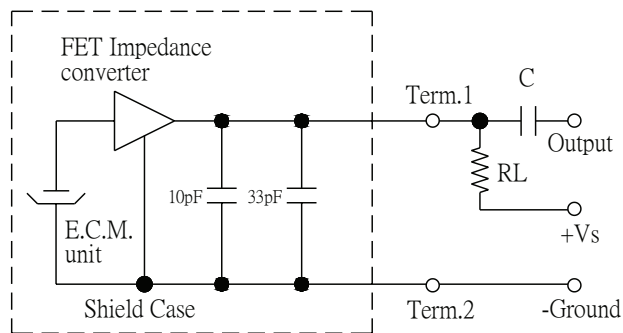
units: mm  
tolerance:  $\pm 0.20$  mm



## FREQUENCY RESPONSE CURVE



## MEASUREMENT CIRCUIT

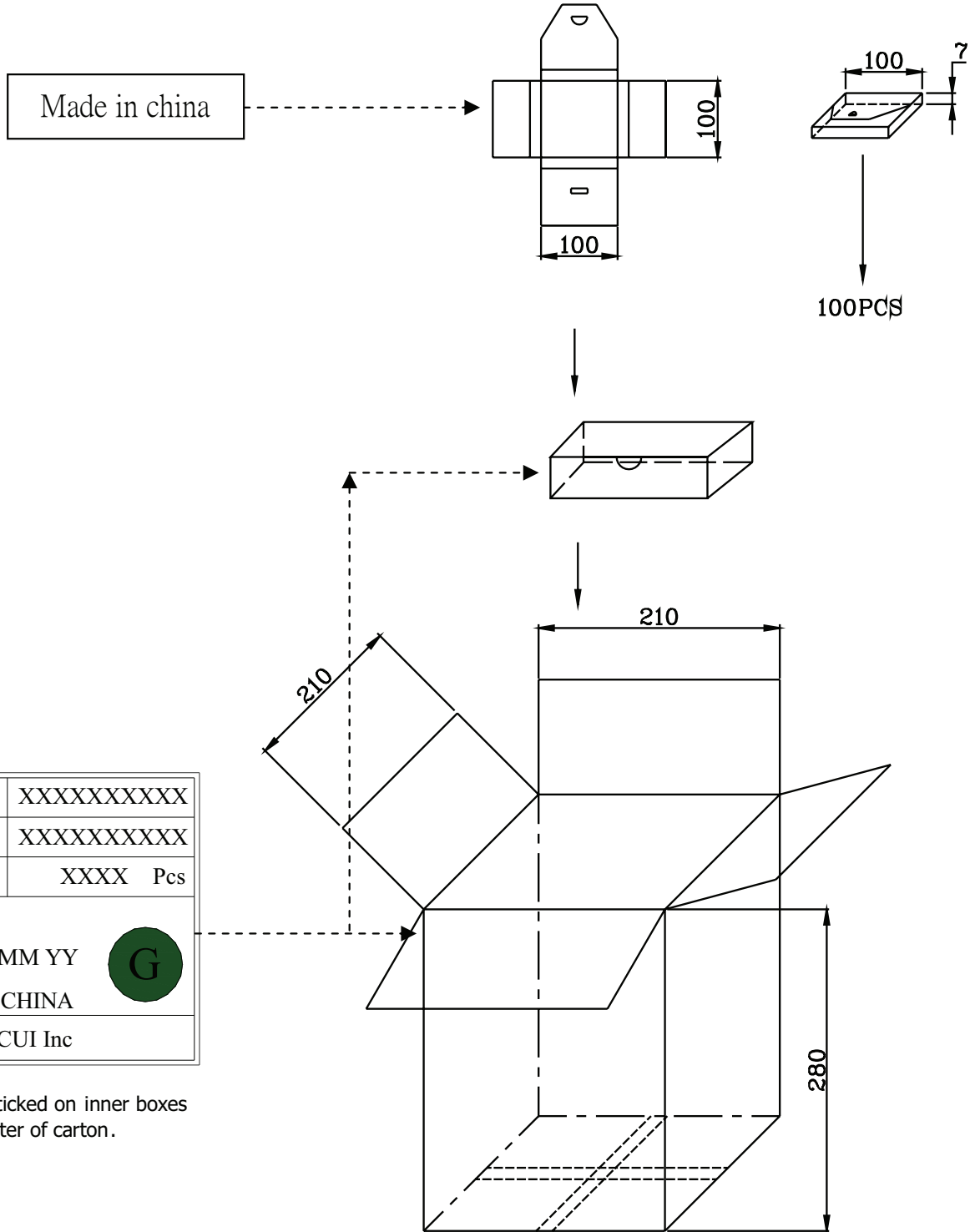


RL = 2.2 k $\Omega$   
C = 1  $\mu$ F

## PACKAGING

units: mm

Inner Box Size: 100 x 100 x 7 mm  
 Middle Box Size: 205 x 105 x 54 mm  
 Carton Size: 210 x 210 x 280 mm  
 Inner Box QTY: 100 pcs  
 Middle Box QTY: 1,000 pcs  
 Carton QTY: 10,000 pcs per carton



Lot No.	XXXXXXXXXX
Model No.	XXXXXXXXXX
Quantity.	XXXX Pcs
Date:	DD MM YY
	MADE IN CHINA
	CUI Inc



\* The label stucked on inner boxes and the outer of carton.

## REVISION HISTORY

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<b>rev.</b>	<b>description</b>	<b>date</b>
1.0	initial release	09/29/2017

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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CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.