

**date** 11/03/2016

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# MODEL: CMC-9745-44P | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- omnidirectional
- pin mount
- 3 Vdc operating voltage





## **SPECIFICATIONS**

narameter	conditions / description	min	turn	may	units
parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1  kHz, 1 Pa, 0 dB = 1 V/Pa	-47	-44	-41	dB
standard operating voltage (Vs	5)		3		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	$f = 1 \text{ kHz}, 1 \text{ Pa, Vs} = 3.0 \sim 2.0 \text{ Vdc}$		-3		dB
frequency (f)		20		20,000	Hz
current consumption (IDSS)	$Vs = 3.0 Vdc$ , $RL = 2.2 k\Omega$			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		60		dBA
dimensions	Ø9.7 x 4.5				mm
material	Al				
terminal	pin type				
weight				0.8	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	2011/65/EU				

Notes:

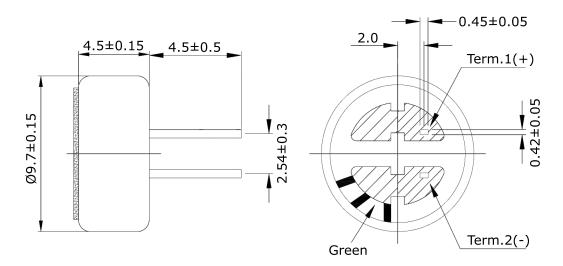
### **SOLDERABILITY**

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

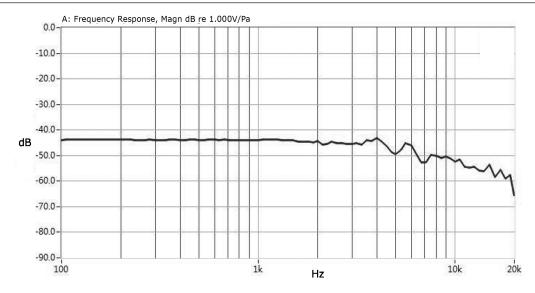
<sup>1.</sup> We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

<sup>20</sup> dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1  $V_0$ ) 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.

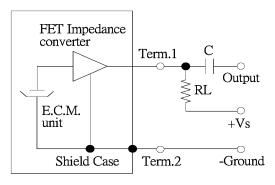
units: mm



# **FREQUENCY RESPONSE CURVE**



# **MEASUREMENT CIRCUIT**

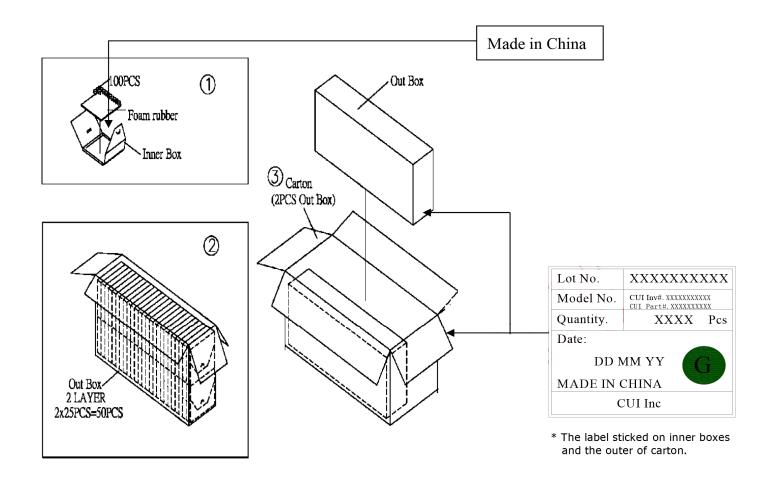


 $RL = 2.2 k\Omega$  $C = 1 \mu F$ 

### **PACKAGING**

units: mm

Inner Box Size: 100 x 100 x 15 mm Outer Box Size: 385 x 110 x 215 mm Carton Box Size: 400 x 240 x 230 mm Inner Box QTY: 100 pcs per box Outer Box QTY: 5,000 pcs per box Carton Box QTY: 10,000 pcs per box



### **REVISION HISTORY**

rev.	description	date
1.0	initial release	11/03/2016

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



**Headquarters** 20050 SW 112th Ave. Tualatin, OR 97062 **800.275.4899** 

Fax 503.612.2383 **cui**.com techsupport@cui.com

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

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