# **CUI** DEVICES

date 04/27/2020

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**MODEL:** CMA-6542TF-K | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- omnidirectional
- 9.7 mm diameter
- solder pads





### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-44	-42	-40	dB
standard operating voltage (Vs	5)		1.5		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		1.5		kΩ
sensitivity reduction (ΔS-Vs)	$f = 1 \text{ kHz}, 1 \text{ Pa, Vs} = 1.5 \sim 1.0 \text{ Vdc}$		-3		dB
frequency (f)		100		20,000	Hz
current consumption (IDSS)	Vs = 1.5 Vdc, RL = 1.5 kΩ			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		58		dBA
dimensions	Ø9.7 x 6.5				mm
material	aluminum				
terminal	solder pads				
weight				0.85	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	Ves				

Notes:

## **SOLDERABILITY**

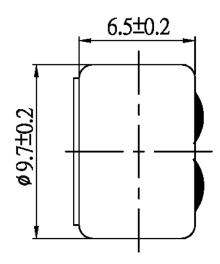
parameter	conditions/description	min	typ	max	units
hand soldering	for $2 \pm 0.5$ seconds	310	320	330	°C

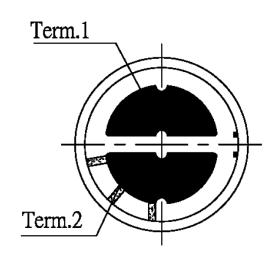
<sup>1.</sup> We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

<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.

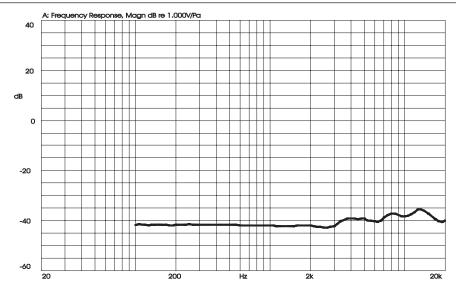
## **MECHANICAL DRAWING**

units: mm

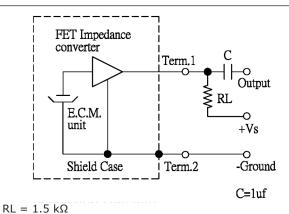




## **FREQUENCY RESPONSE CURVE**



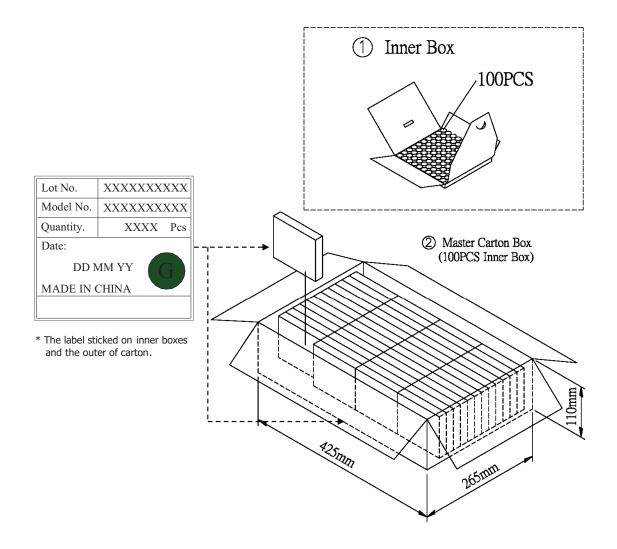
## **APPLICATION CIRCUIT**



## **PACKAGING**

units: mm

Inner Box Size: 100 x 100 x 8 mm Outer Box Size: 425 x 265 x 110 mm Inner Box QTY: 100 pcs per box Outer Box QTY: 10,000 pcs per box



Additional Resources: Product Page | 3D Model

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### **REVISION HISTORY**

rev.	description	date
1.0	initial release	06/01/2008
1.01	brand update	04/27/2020

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

# **CUI** DEVICES

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

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