

**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]			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 kHz, 1 Pa, Vs = 1.5 ~ 1.0 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	yes				

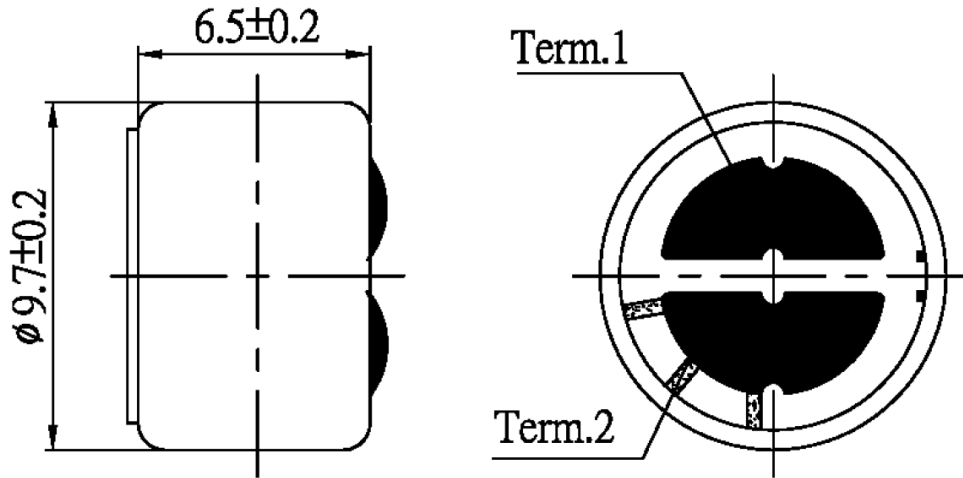
Notes: 1. We use the "Pascal [Pa]" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB [0 dB = 1 V/ubar] = -40 dB [1V/Pa]  
 2. All specifications measured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

**SOLDERABILITY**

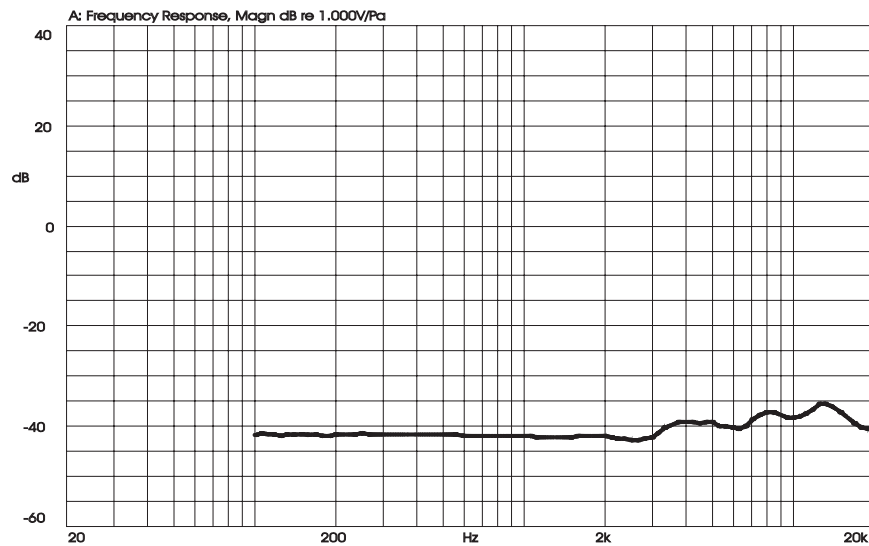
parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	310	320	330	°C

## MECHANICAL DRAWING

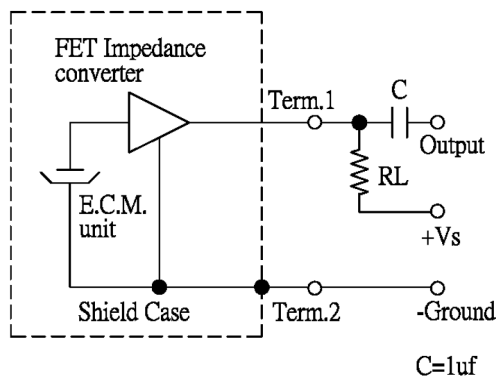
units: mm



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT

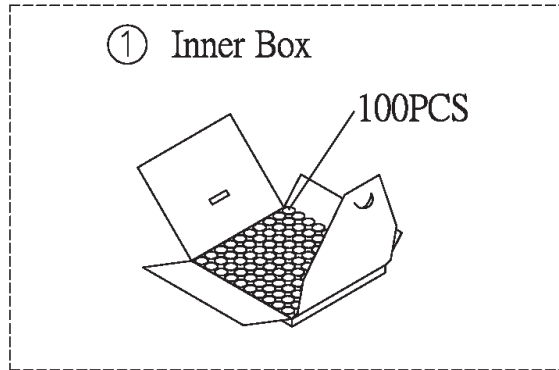


RL = 1.5 kΩ

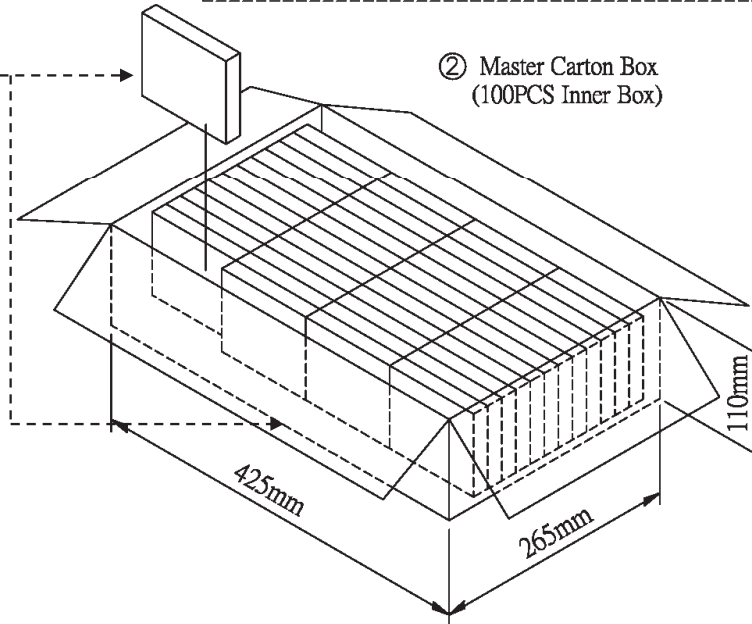
## PACKAGING

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



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



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

## REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2008
1.01	brand update	04/27/2020
1.02	logo, datasheet style update	08/05/2022

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



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

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