

**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				

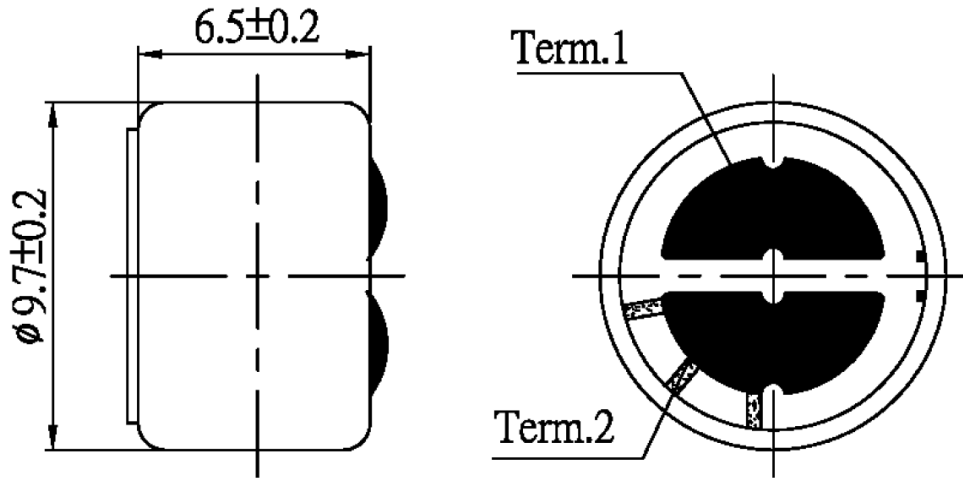
Notes: 1. We use the "Pascal (Pa)" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa)  
 2. All specifications measured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

**SOLDERABILITY**

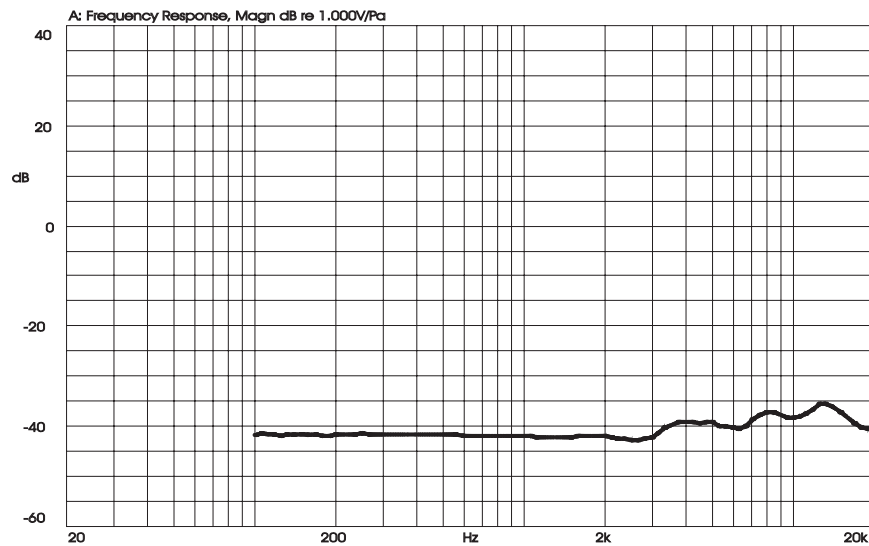
parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	310	320	330	°C

## MECHANICAL DRAWING

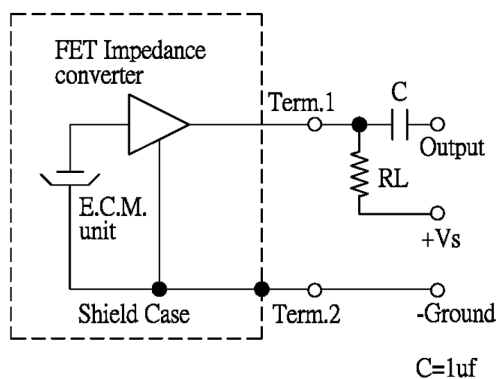
units: mm



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT

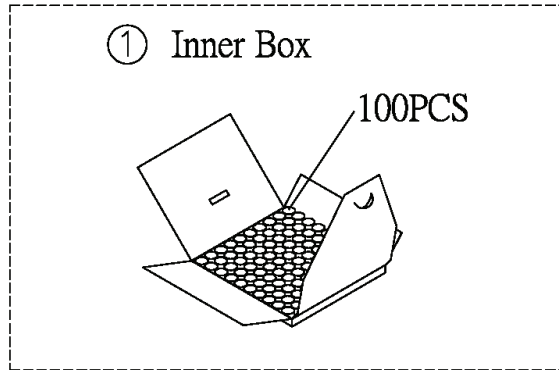


RL = 1.5 kΩ

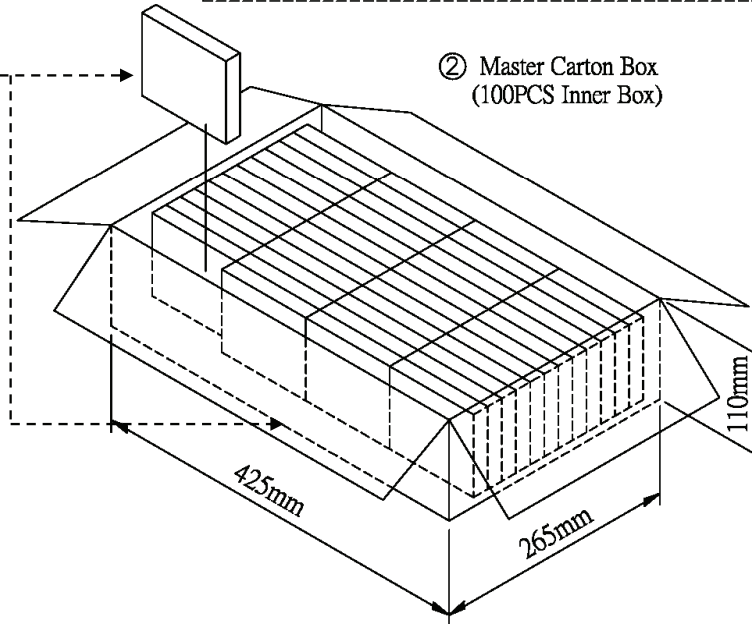
## PACKAGING

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

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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.

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# CUI DEVICES

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