

**MODEL:** CMC-5044TF-A | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE**FEATURES**

- omnidirectional
- analog
- solder pads

**ELECTRICAL**

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity [S]	at 1 kHz [0 dB = 1 V/Pa]	-47	-44	-41	dB
supply voltage [V <sub>DD</sub> ]			2.0	10	V
current consumption	V <sub>DD</sub> = 2.0 V, R <sub>L</sub> = 2.2 k $\Omega$			0.5	mA
sensitivity reduction	V <sub>DD</sub> = 2.0 ~ 1.5 V			-3	dB
frequency [f]		100		20,000	Hz
signal to noise ratio [S/N]	at 1 kHz, P <sub>in</sub> = 1 Pa [A-weighted]		60		dBA
total harmonic distortion [THD]	at 115 dB SPL, 1 kHz			10	%
acoustic overload point [AOP]	at 1 kHz			115	dB SPL
output impedance [Z <sub>out</sub> ]	at 1 kHz			2.2	k $\Omega$

Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

**ENVIRONMENTAL**

parameter	conditions/description	min	typ	max	units
operating temperature		-20		70	°C
storage temperature		-20		70	°C
hand soldering	for 2±0.5 seconds	310	320	330	°C
RoHS	yes				

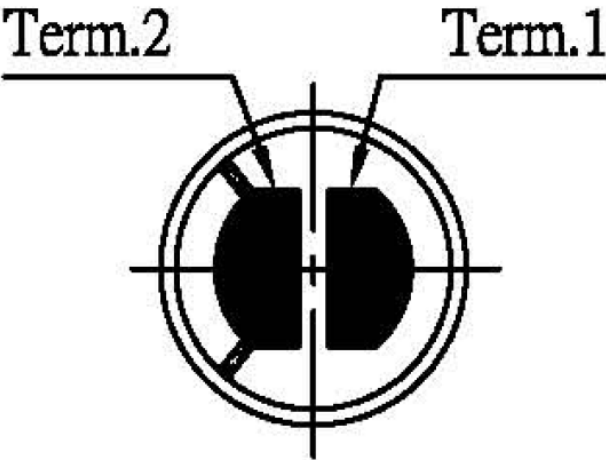
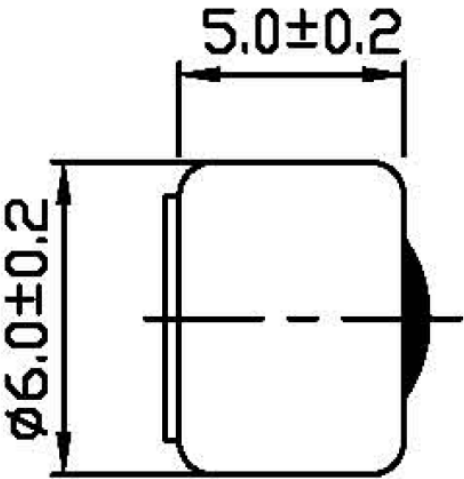
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	Ø6.0 x 5				mm
acoustic port	top				
material	AL				
terminals	solder pads				
weight			0.30		g

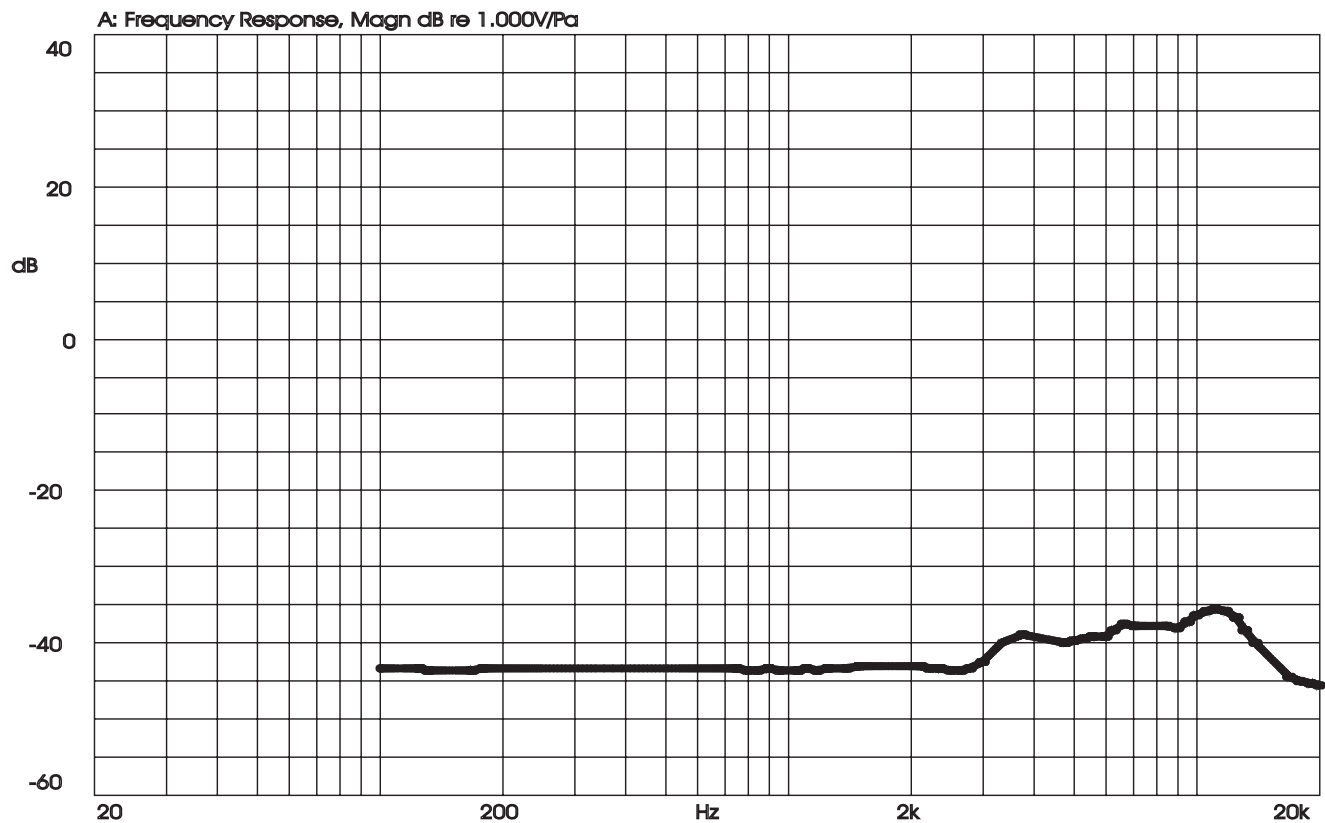
MECHANICAL DRAWING

units: mm  
tolerance: ±0.2 mm

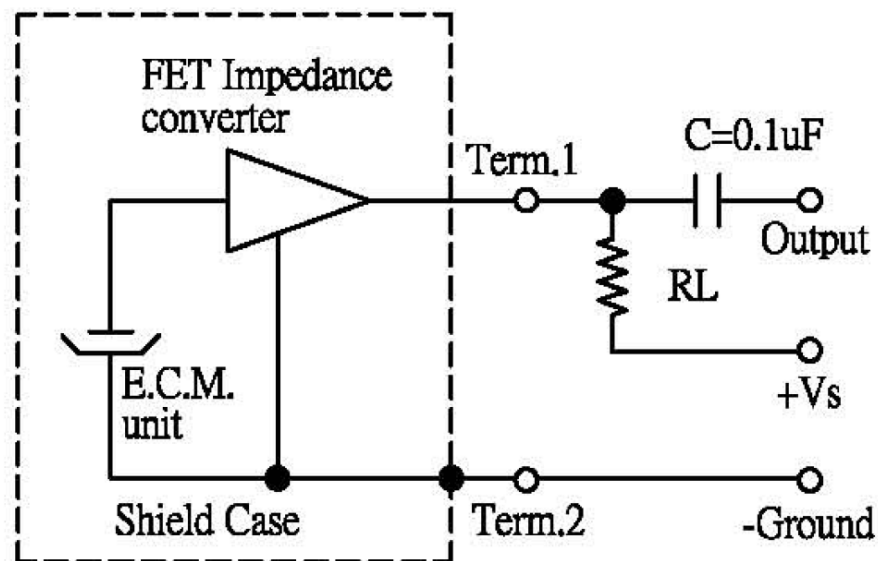
TERMINAL CONNECTIONS	
TERM.	FUNCTION
1	Output (+)
2	GND (-)



## FREQUENCY RESPONSE CURVE

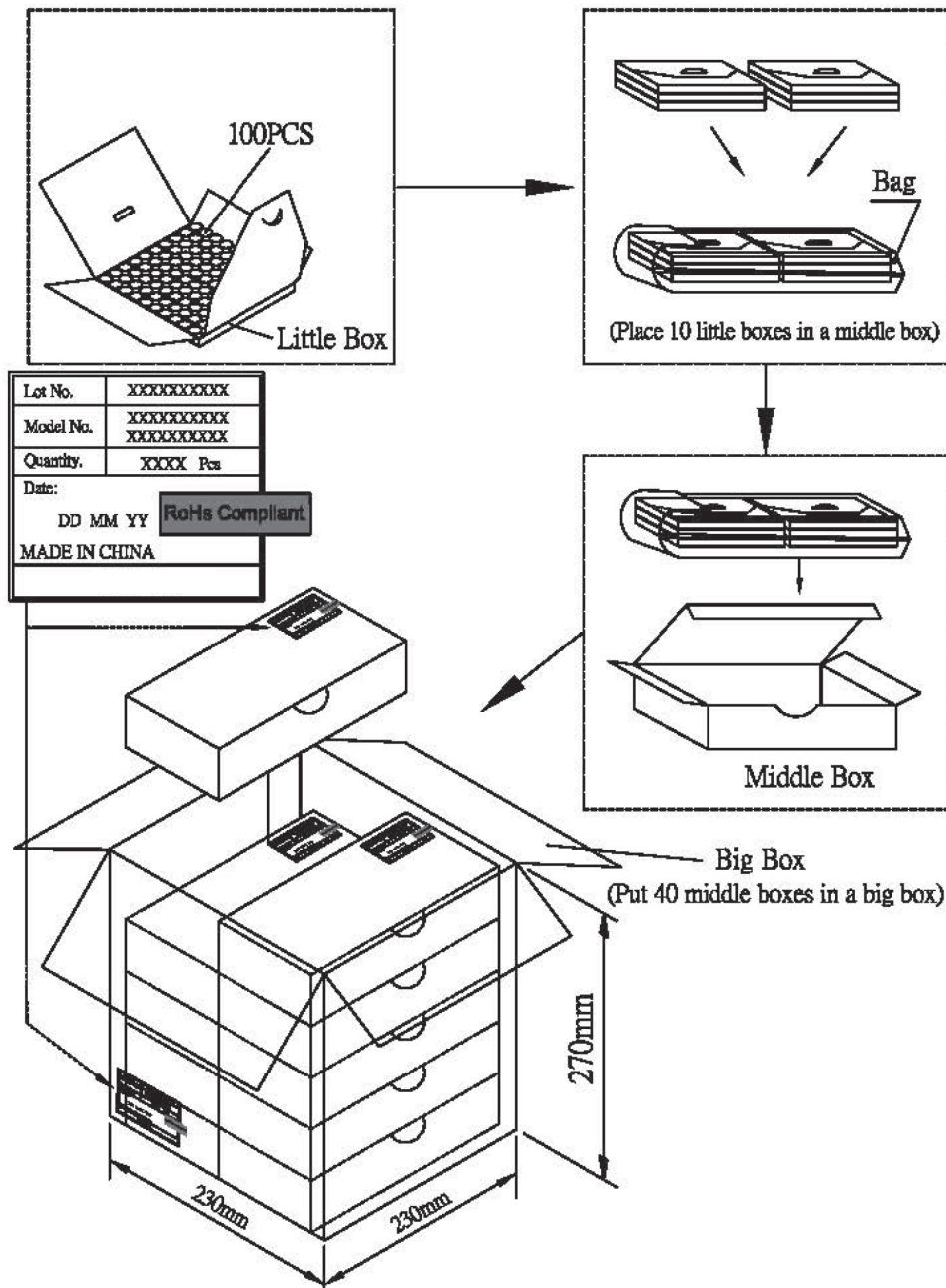


## APPLICATION CIRCUIT



## PACKAGING

Small Box Size: 63 x 63 x 8 mm  
Medium Box Size: 125 x 65 x 45 mm  
Carton Size: 230 x 230 x 270 mm  
Small Box QTY: 100 pcs per box  
Carton QTY: 40,000 pcs per carton



## REVISION HISTORY

rev.	description	date
1.0	initial release	07/21/2008
1.01	changed color of mesh cloth	06/24/2019
1.02	brand update	01/17/2020
1.03	logo, datasheet style update	08/05/2022

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



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