CUDEVICES

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

FEATURES

- omnidirectional
- analog
- solder pads

RoHS

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_{DD})			2.0	10	V
current consumption	V_{DD} = 2.0 V, RL = 2.2 kΩ			0.5	mA
sensitivity reduction	V_{DD} = 2.0 ~ 1.5 V			-3	dB
frequency (f)		100		20,000	Hz
signal to noise ratio (S/N)	at 1 kHz, Pin = 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 (Zout)	at 1 kHz			2.2	kΩ

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				

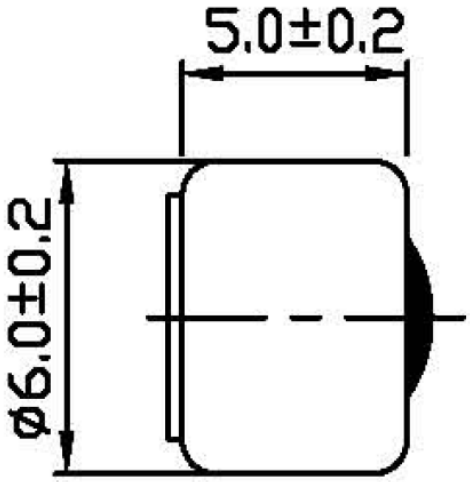
MECHANICAL

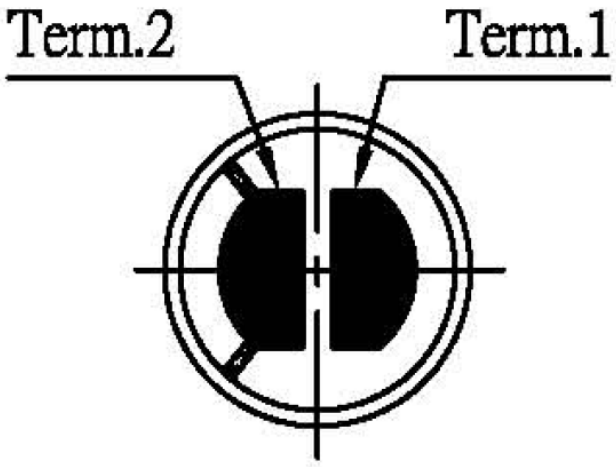
parameter	conditions/description	min	typ	max	units
dimensions	Ø6.0 x 5				mm
acoustic port	top				
material	AL				
terminals	solder pads				
weight			0.30		g

MECHANICAL DRAWING

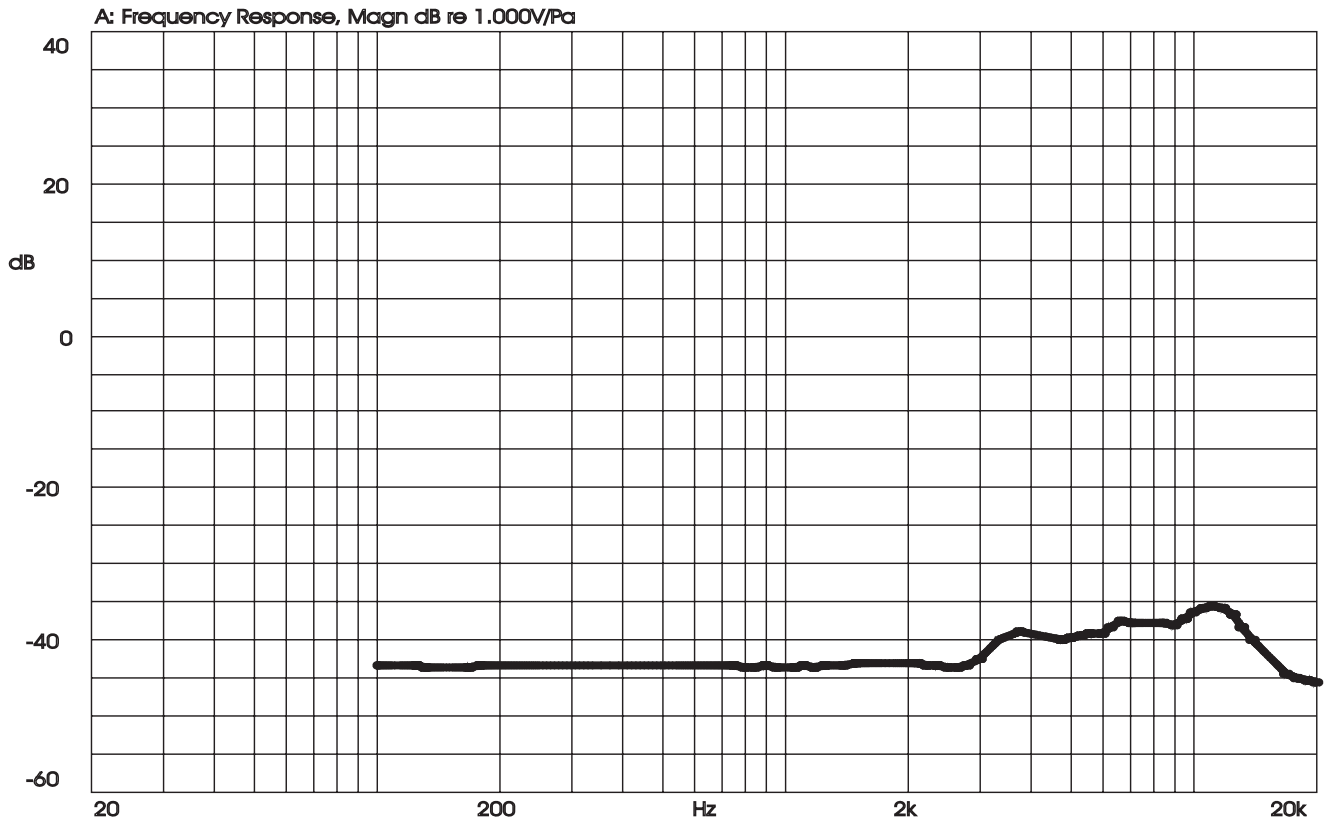
units: mm
tolerance: ±0.2 mm

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

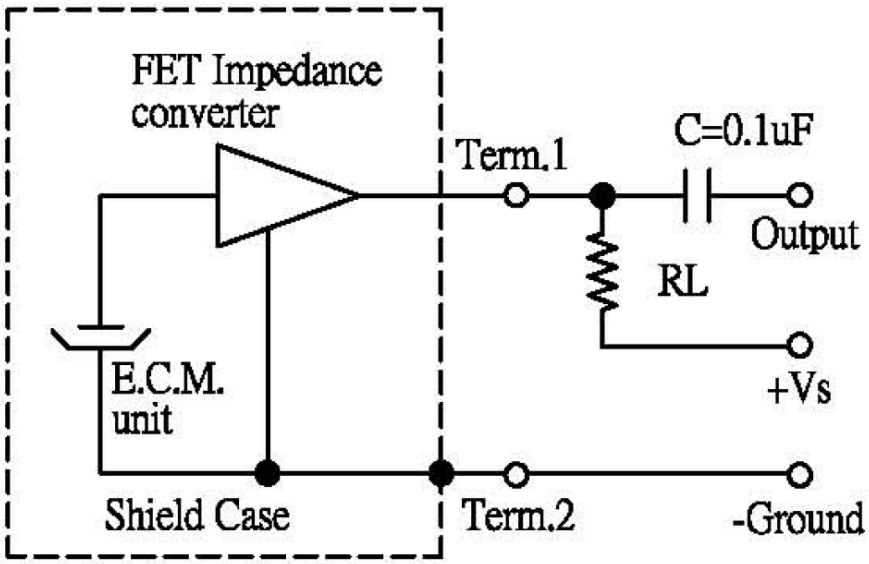




FREQUENCY RESPONSE CURVE

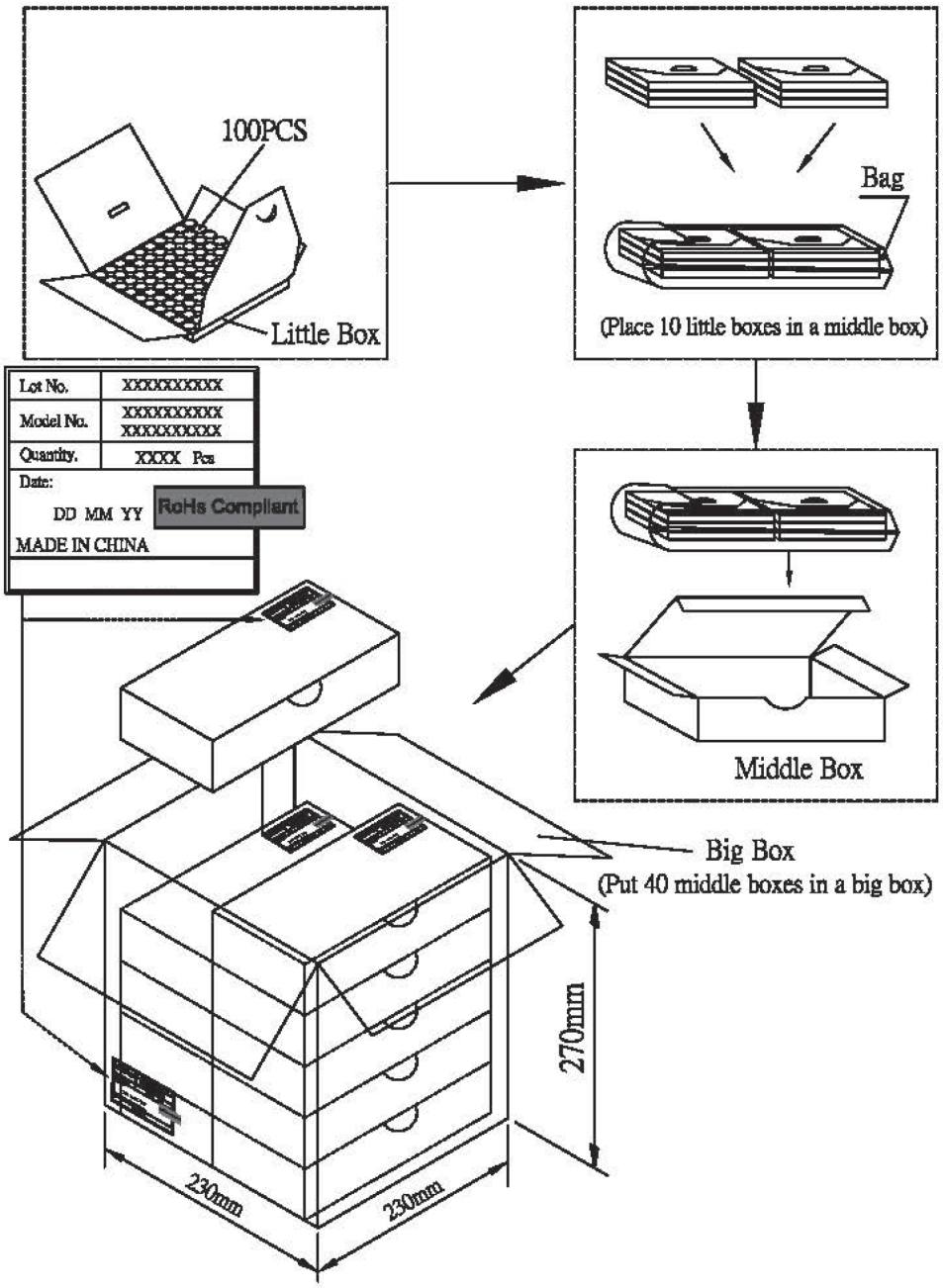


APPLICATION CIRCUIT



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.