

date 08/05/2022

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MODEL: CMR-5054TB-A | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- noise cancelling
- 6.0 mm diameter
- solder pads





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	noise cancelling				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-57	-54	-51	dB
standard operating voltage (Vs)			2		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.0 Vdc		-3		dB
frequency (f)		100		10,000	Hz
current consumption (IDSS)	Vs = 2.0 Vdc, RL = 2.2 kΩ			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		56		dBA
dimensions	Ø6.0 x 5.0				mm
material	aluminum				
terminal	solder pads				
weight				0.3	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				

Notes:

 $2. All \ specifications \ measured \ at \ 5~35°C, \ humidity \ at \ 45~85\%, \ under \ 86~106 \ kPa \ pressure, \ unless \ otherwise \ noted.$

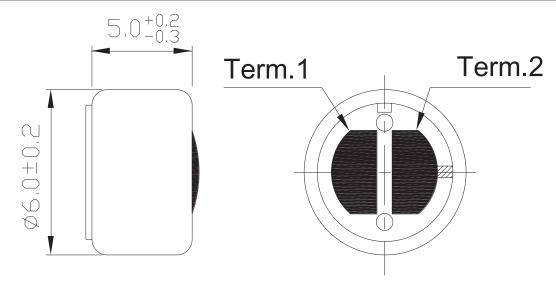
SOLDERABILITY

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

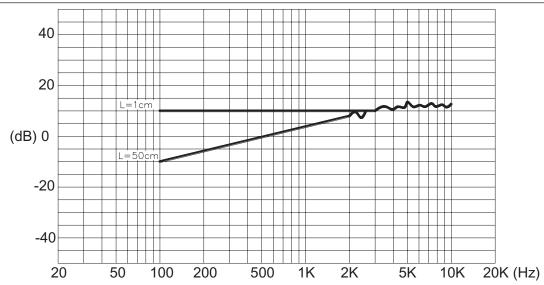
^{1.} We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1V/Pa)

MECHANICAL DRAWING

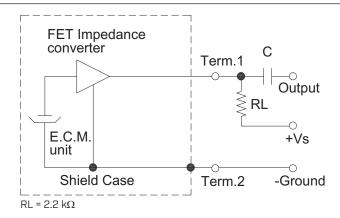
units: mm



FREQUENCY RESPONSE CURVE



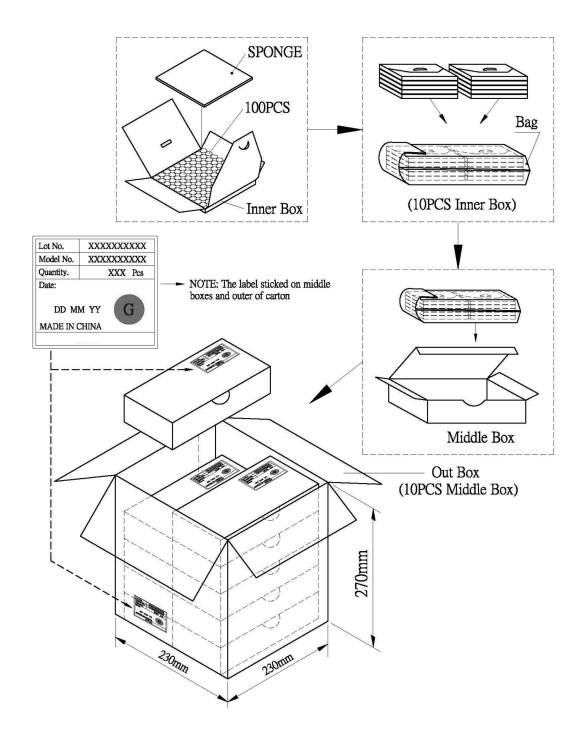
APPLICATION CIRCUIT



PACKAGING

units: mm

Inner Box Size: 100 x 100 x 8 mm Outer Box Size: 230 x 230 x 270 mm Inner Box QTY: 100 pcs per box Outer Box QTY: 10,000 pcs per box



Additional Resources: Product Page | 3D Model

REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2008
1.01	brand update	04/24/2020
1.02	logo, datasheet style update	08/05/2022

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



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