CUDEVICES

MODEL: CMI-4537-SN69 | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

FEATURES

- unidirectional
- 9.7 mm diameter
- solder pads



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	unidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-40	-37	-34	dB
standard operating voltage (Vs)			1.5		Vdc
max operating voltage				9	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa	1.26	1.8	2.34	kΩ
sensitivity reduction (ΔS-Vs)	f = 1 kHz, 1 Pa, Vs = 1.5 ~ 1.1 Vdc		-3		dB
frequency (f)		100		12,000	Hz
current consumption (I_{DSS})	Vs = 1.5 Vdc, RL = 2.0 kΩ			0.4	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		69		dBA
dimensions	Ø9.7 x 4.5				mm
material	AL				
terminal	solder pads				
weight				0.8	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				

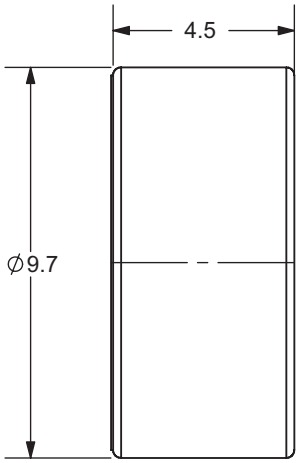
Notes: 1. We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1V/Pa)
2. All specifications measured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

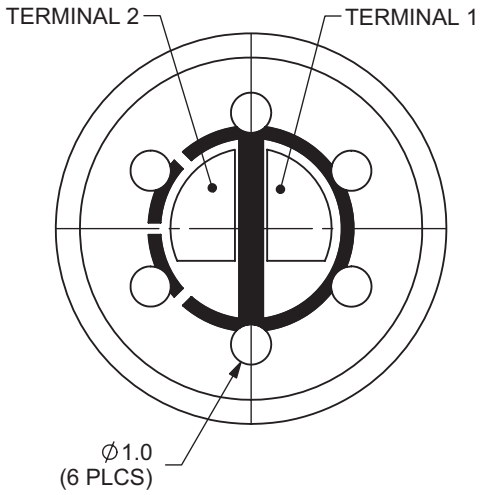
SOLDERABILITY

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

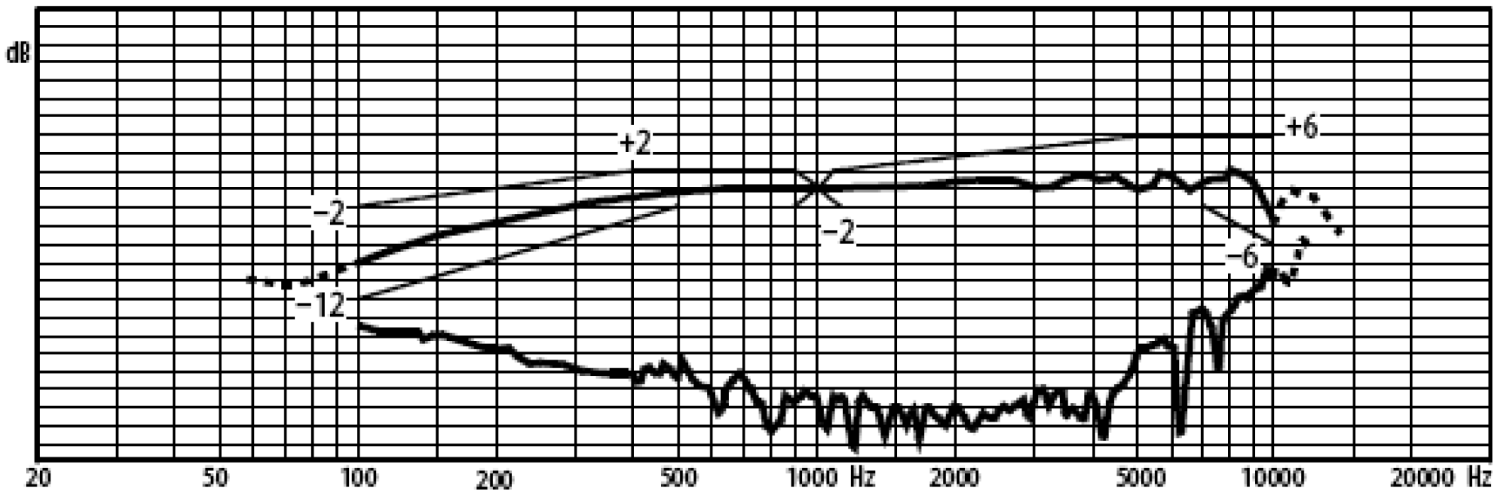
MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

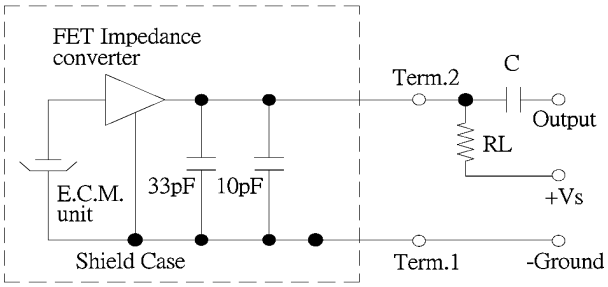




FREQUENCY RESPONSE CURVE



APPLICATION CIRCUIT

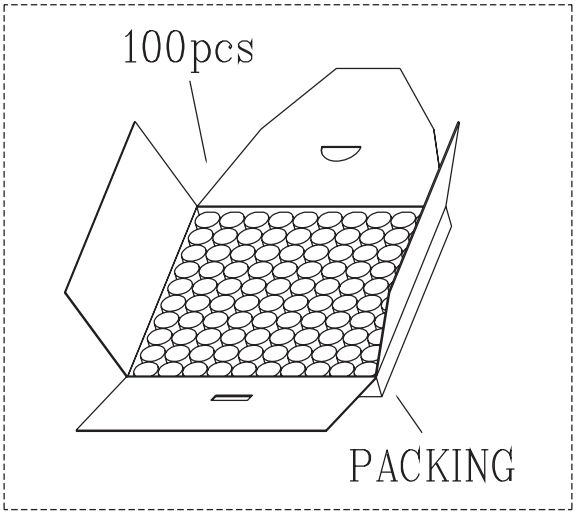


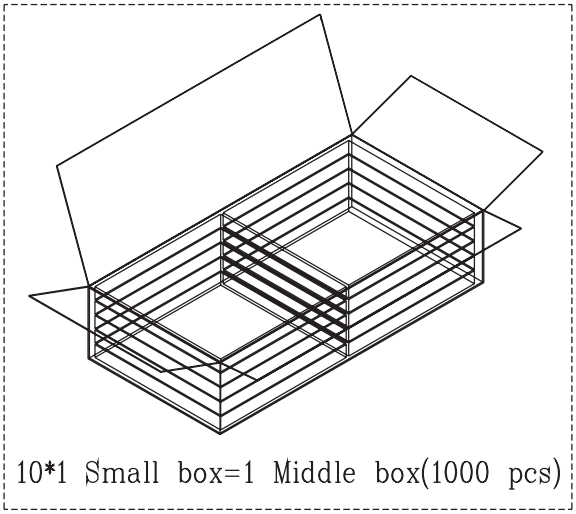
RL = 2.0 kΩ
C = 1 µF

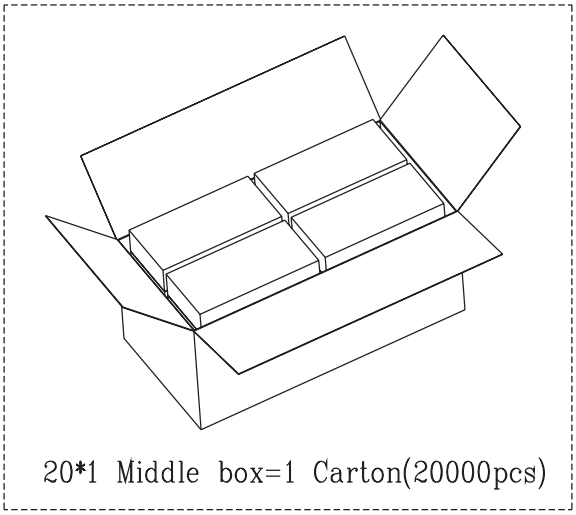
PACKAGING

units: mm

Inner Box Size: 100 x 100 x 10 mm
Outer Box Size: 420 x 230 x 255 mm
Inner Box QTY: 100 pcs per box
Outer Box QTY: 20,000 pcs per box







REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2008
1.01	specificaton update	06/25/2012
1.02	brand update	04/24/2020
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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