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same sky

SERIES: CMEJ-4618-42-LX | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- omnidirectional
- low profile
- multiple lead wire lengths available

RoHS

ELECTRICAL

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	at 1 kHz (0 dB = 1 V/Pa)	-45	-42	-39	dB
supply voltage (V_{DD})		1.0	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		10,000	Hz
signal to noise ratio (S/N)	at 1 kHz, Pin = 1 Pa (A-weighted)		60		dBA
total harmonic distortion (THD)	at 94 dB SPL, 1 kHz at 115 dB SPL, 1 kHz			1 3	% %
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 20±2°C, humidity at 60~70%, unless otherwise noted.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-40		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	30		85	%
storage humidity	non-condensing	30		75	%
hand soldering	for 1~3 seconds	340	350	360	°C
RoHS	yes				

PART NUMBER KEY

CMEJ-4618-42-L **XXX**

Base Number

Wire Length:
008 = 8 mm
010 = 10 mm
012 = 12 mm
015 = 15 mm
120 = 120 mm
177 = 177 mm

MECHANICAL

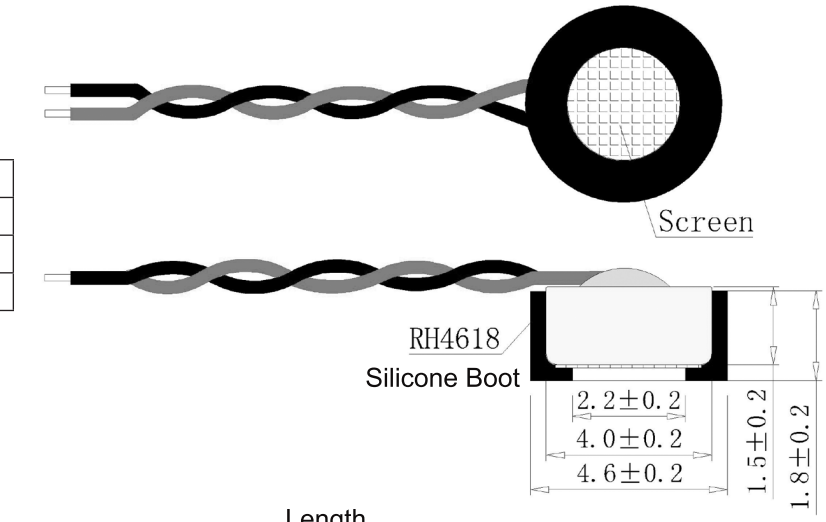
parameter	conditions/description	min	typ	max	units
dimensions	Ø4.6 x 1.8				mm
acoustic port	top				
terminals	wire leads				

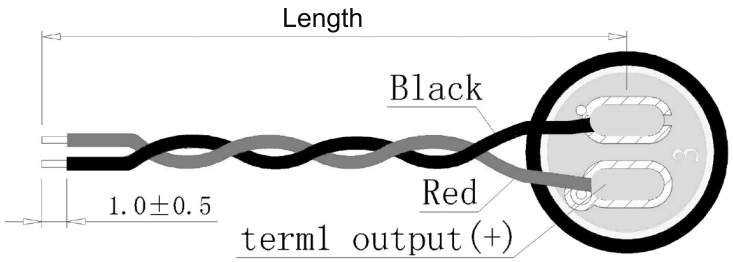
MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

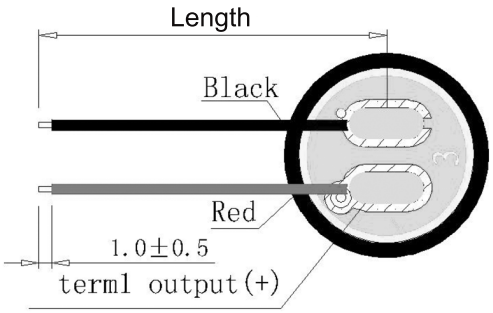
wire: UL 1571, 32 AWG

WIRE CONNECTIONS		
TERM.	WIRE COLOR	FUNCTION
1	Red	Output (+)
2	Black	GND (-)





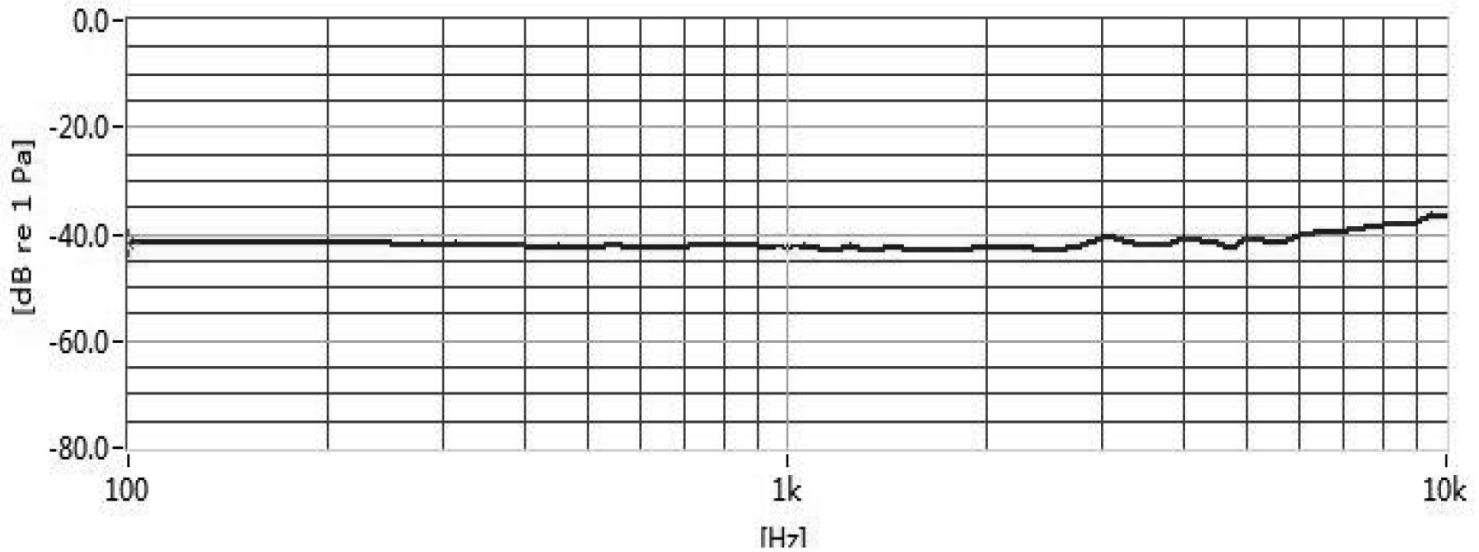
Twisted wire models



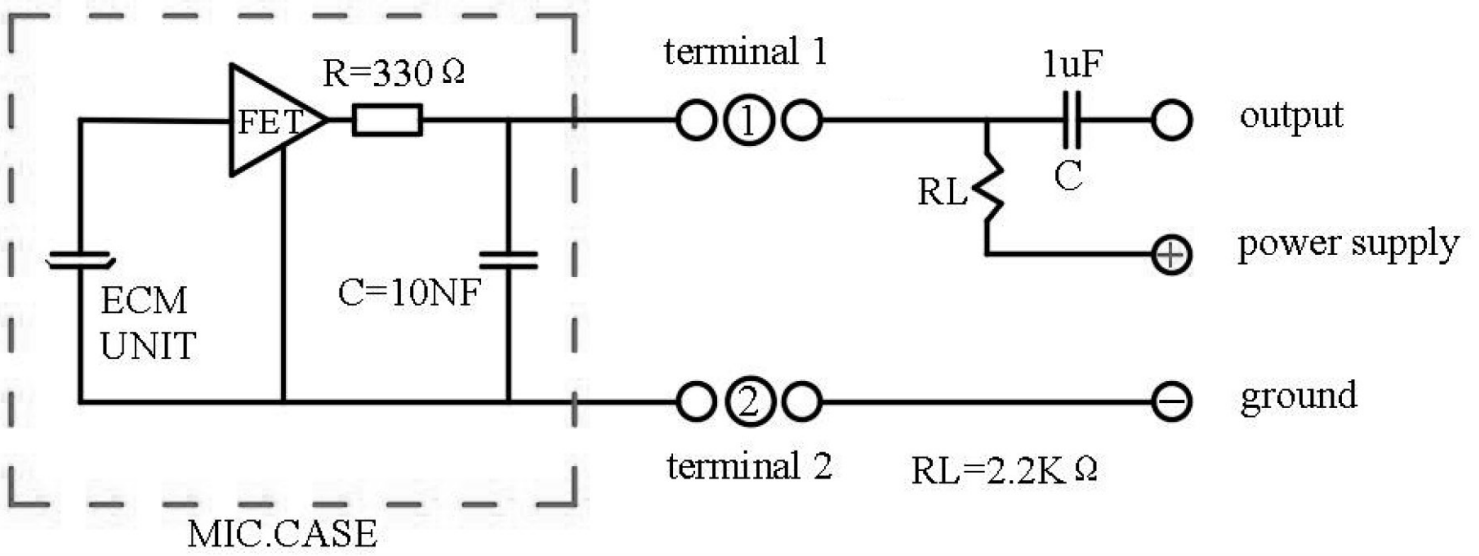
Non-Twisted wire models

MODEL NO.	LENGTH (mm)	TWISTED WIRES	WEIGHT (g)
CMEJ-4618-42-L008	8 ±1	NO	0.1
CMEJ-4618-42-L010	10 ±1	NO	0.1
CMEJ-4618-42-L012	12 ±1	NO	0.11
CMEJ-4618-42-L015	15 ±1	NO	0.11
CMEJ-4618-42-L120	120 ±5	YES	0.26
CMEJ-4618-42-L177	177 ±6	YES	0.33

FREQUENCY RESPONSE CURVE

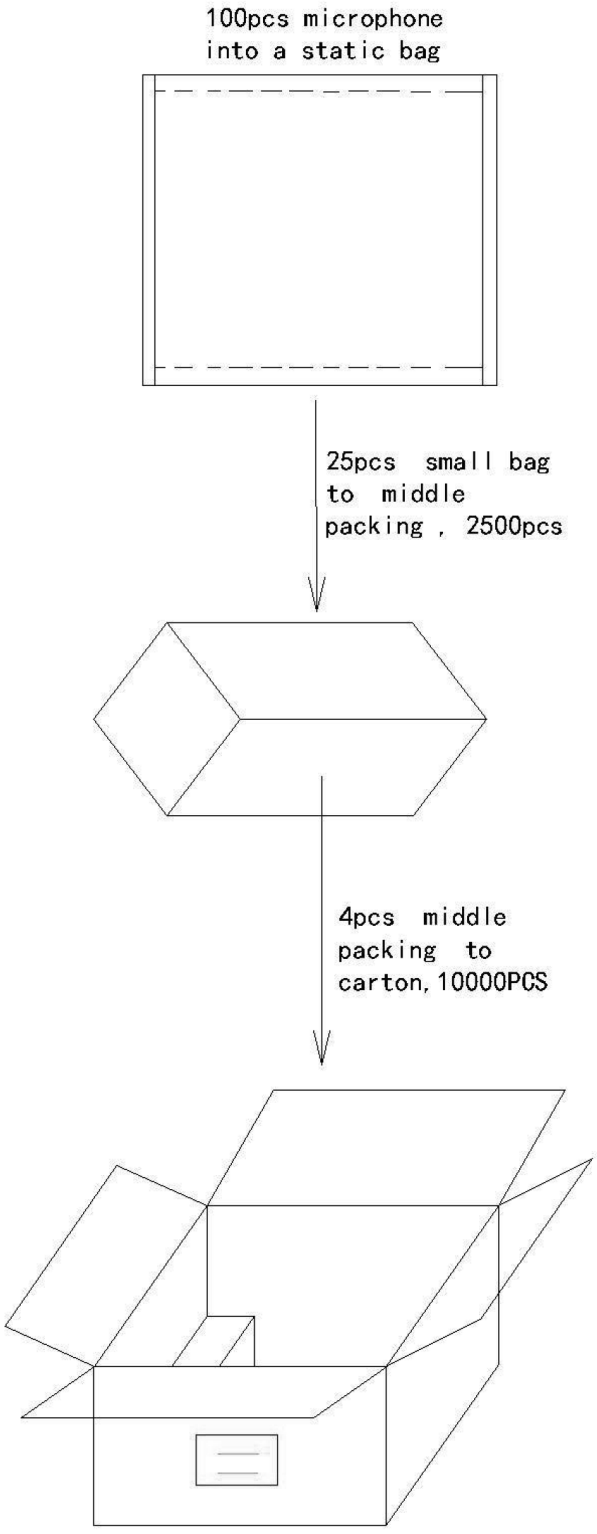


APPLICATION CIRCUIT



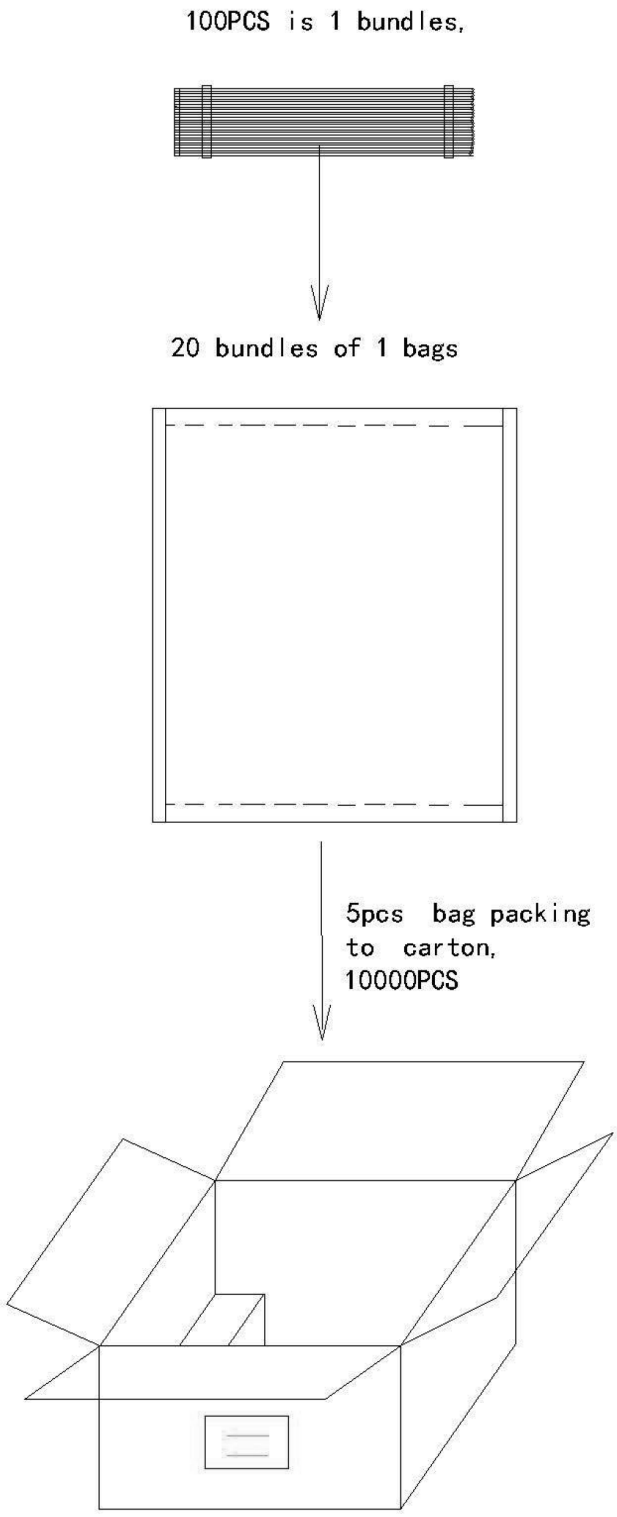
PACKAGING (NON-TWISTED WIRE MODELS)

Carton QTY: 10,000 pcs



PACKAGING (TWISTED WIRE MODELS)

Carton QTY: 10,000 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	06/07/2019
1.01	brand update	01/23/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024

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

same sky

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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