

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

FEATURES

- omnidirectional
- low profile
- multiple lead wire lengths available


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, R _L = 2.2 k Ω			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, P _{in} = 1 Pa [A-weighted]		60		dB
total harmonic distortion [THD]	at 94 dB SPL, 1 kHz at 115 dB SPL, 1 kHz			1 3	% %
acoustic overload point [ADP]	at 1 kHz			115	dB SPL
output impedance [Z _{out}]	at 1 kHz			2.2	k Ω

Notes: 1. All specifications measured at 20 \pm 2 $^{\circ}$ C, humidity at 60-70%, unless otherwise noted.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-40		70	$^{\circ}$ C
storage temperature		-40		85	$^{\circ}$ C
operating humidity	non-condensing	30		85	%
storage humidity	non-condensing	30		75	%
hand soldering	for 1-3 seconds	340	350	360	$^{\circ}$ 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

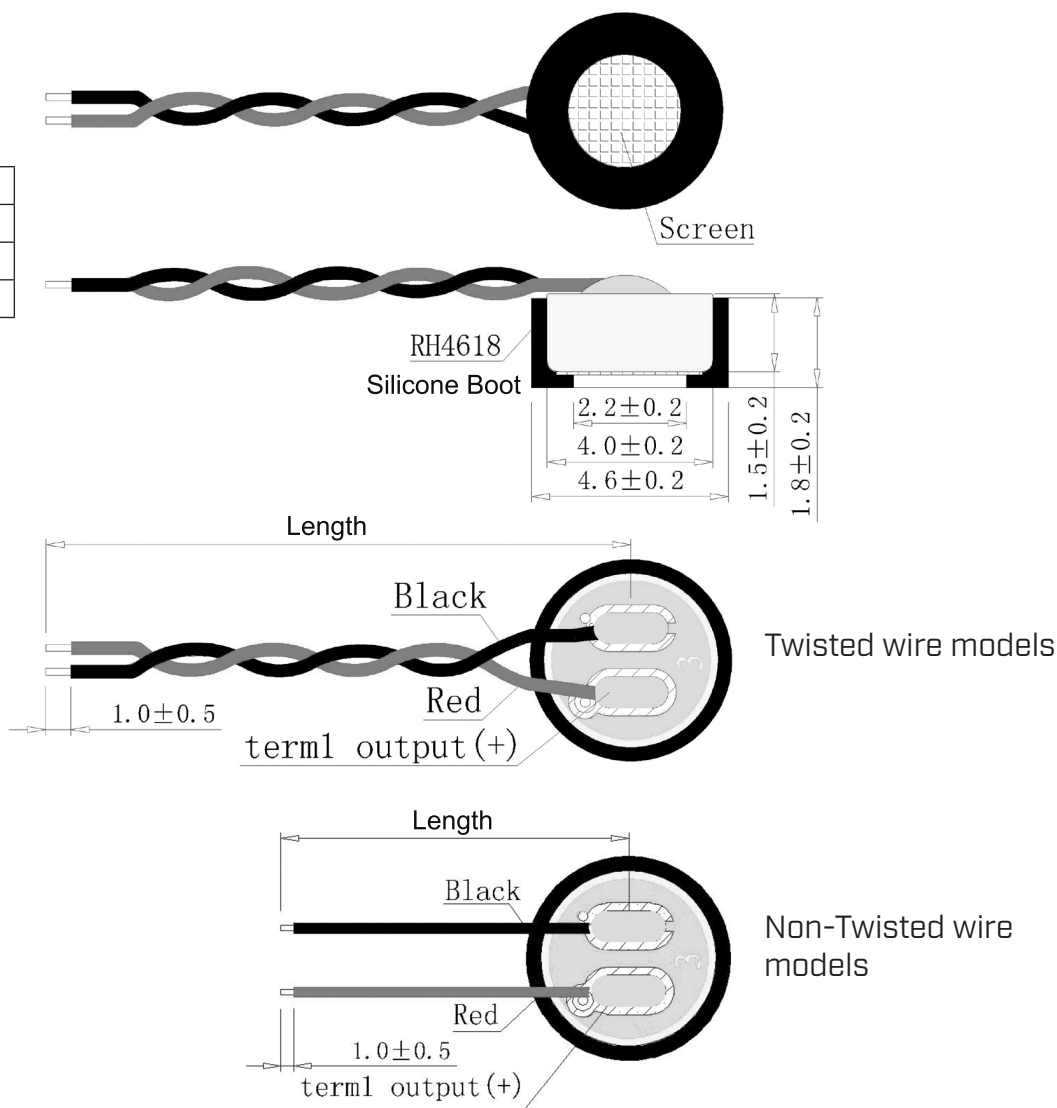
parameter	conditions/description	min	typ	max	units
dimensions	Ø4.6 x 1.8				mm
acoustic port	top				
terminals	wire leads				

MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

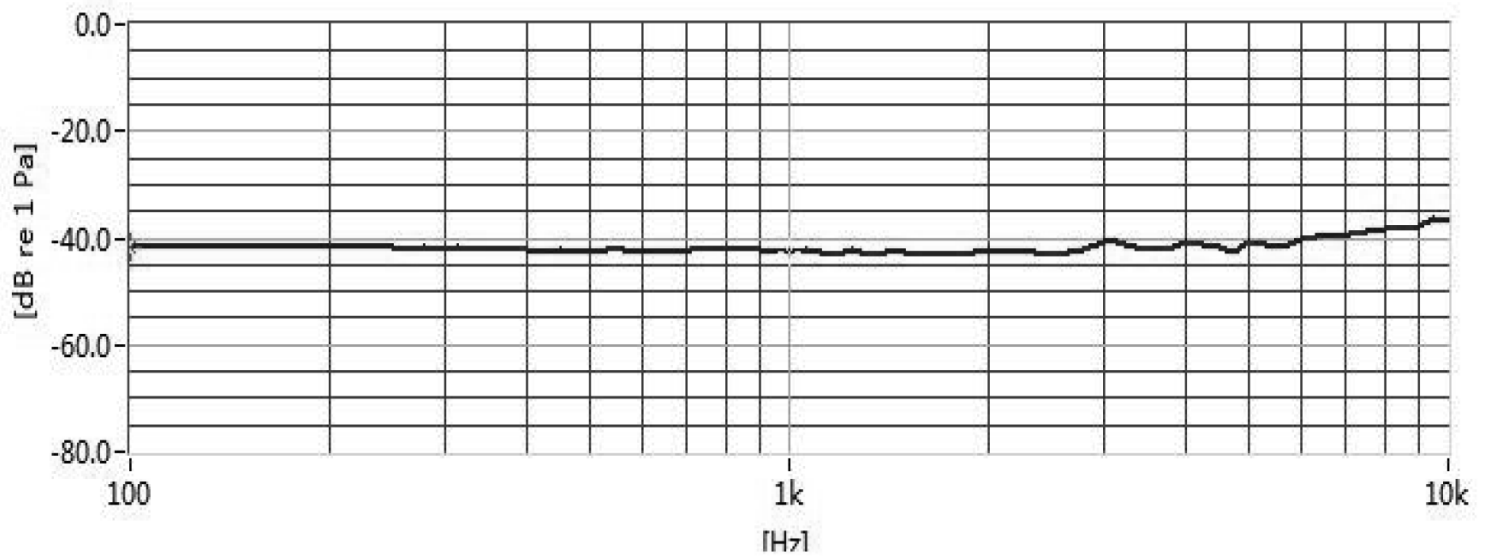
wire: UL 1571, 32 AWG

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

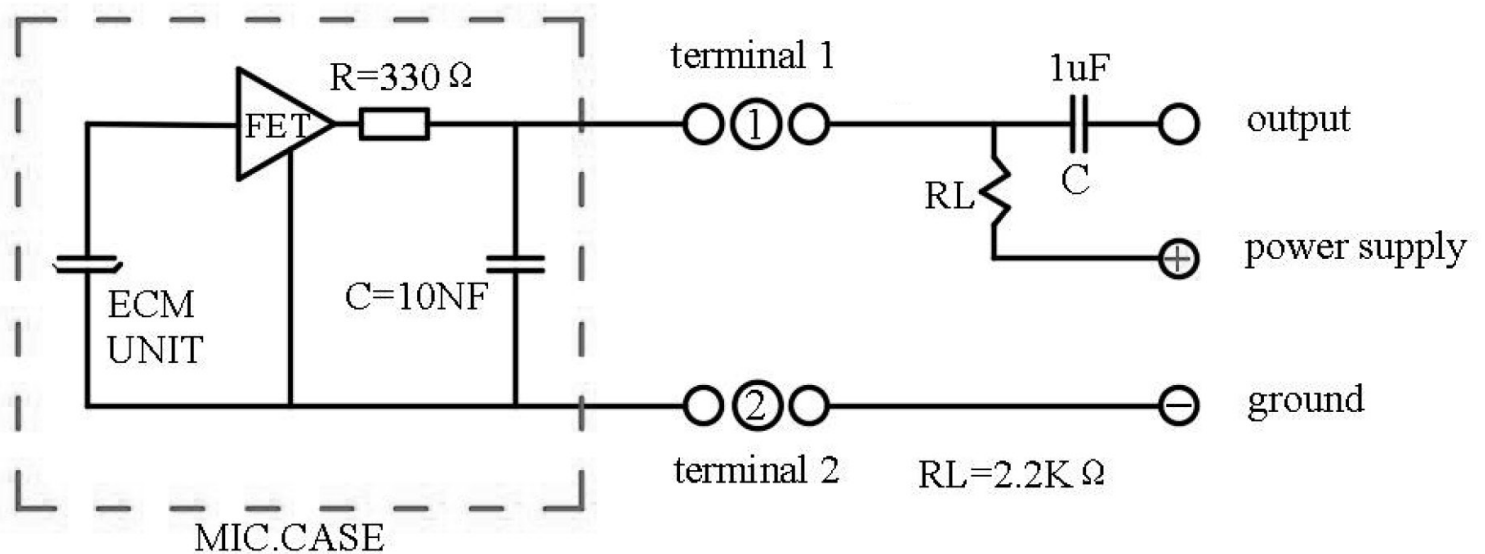


MODEL NO.	LENGTH [mm]	TWISTED WIRES	WEIGHT [g]
CMEJ-4618-42-L008	8 ±1	NO	0.1
CMEJ-4618-42-L010	10 ±1	NO	0.1
CMEJ-4618-42-L012	12 ±1	NO	0.11
CMEJ-4618-42-L015	15 ±1	NO	0.11
CMEJ-4618-42-L120	120 ±5	YES	0.26
CMEJ-4618-42-L177	177 ±6	YES	0.33

FREQUENCY RESPONSE CURVE

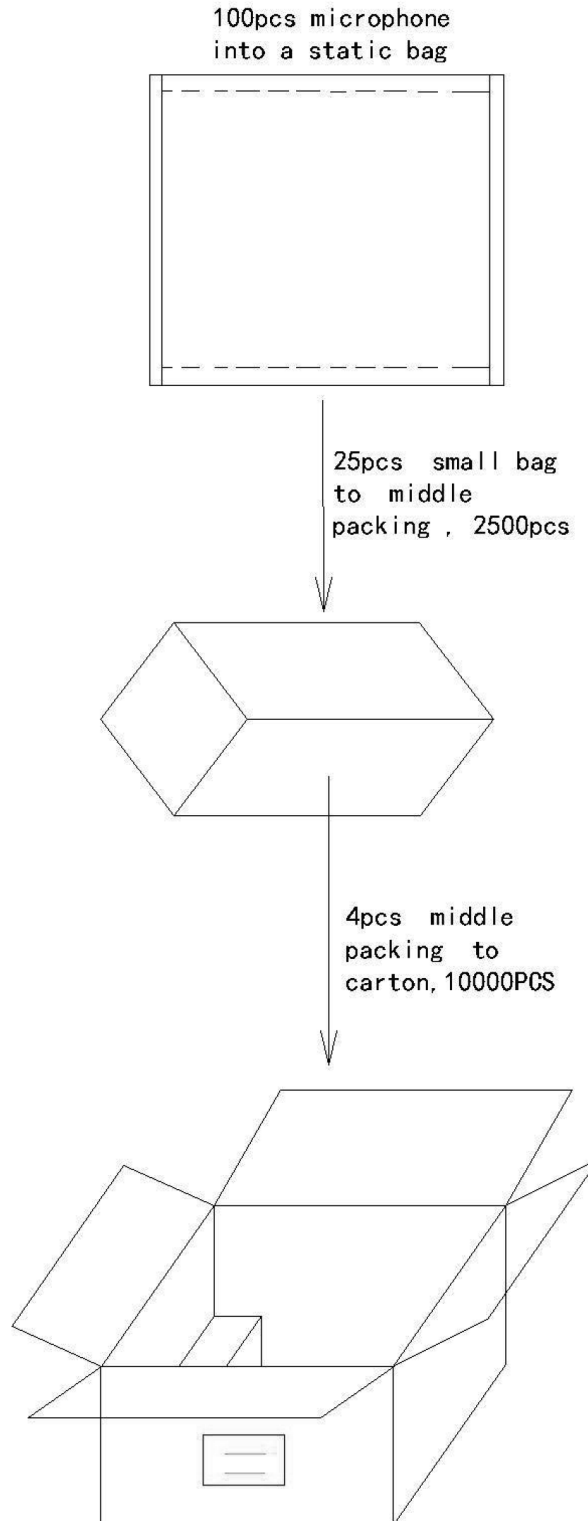


APPLICATION CIRCUIT



PACKAGING (NON-TWISTED WIRE MODELS)

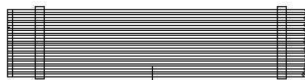
Carton QTY: 10,000 pcs



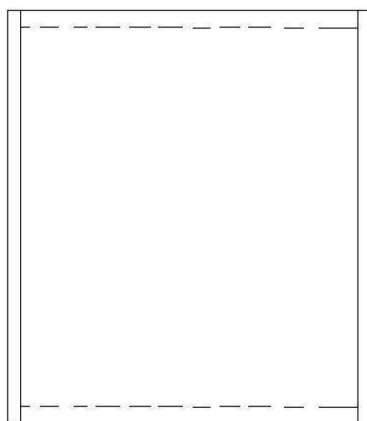
PACKAGING (TWISTED WIRE MODELS)

Carton QTY: 10,000 pcs

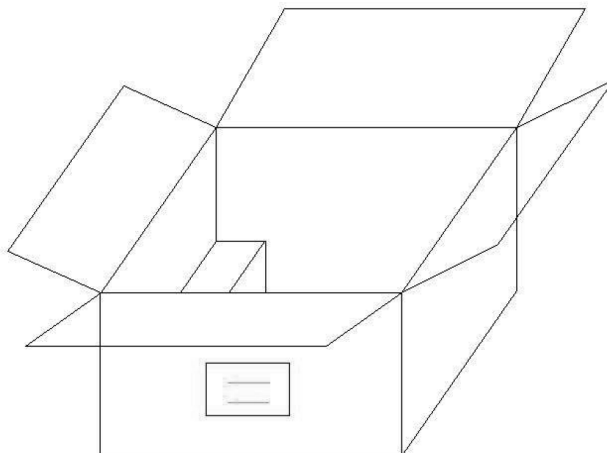
100PCS is 1 bundles,



20 bundles of 1 bags



5pcs bag packing
to carton,
10000PCS



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

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



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

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

CUI Devices 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.

cuidevices.com