

### MODEL: CMC-9745-L100 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

#### **FEATURES**

- unidirectional
- high signal to noise ratio
- 100 mm lead wires



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# 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	1.4	2.0	2.6	kΩ
sensitivity reduction ( $\Delta$ S-Vs)	f = 1 kHz, 1 Pa, Vs = 1.5 ~ 1.0 Vdc		-3		dB
frequency (f)		100		12,000	Hz
current consumption (IDSS)	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 × 4.5				mm
material	Al				
terminal	wire leads				
weight				1	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 //ubar) = -40 dB (1 //Pa) 2. All perspective dB = 2.55°, burglidb et dB = 5.5°, burglidb et dB =

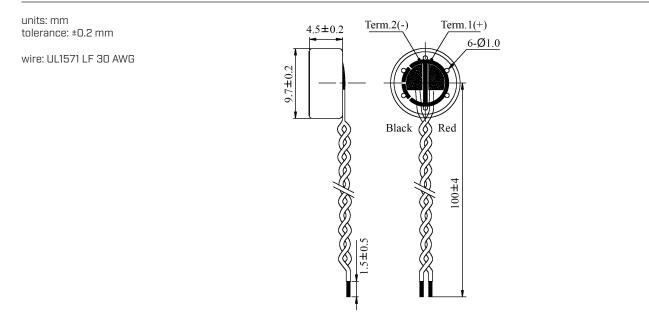
2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

#### SOLDERABILITY

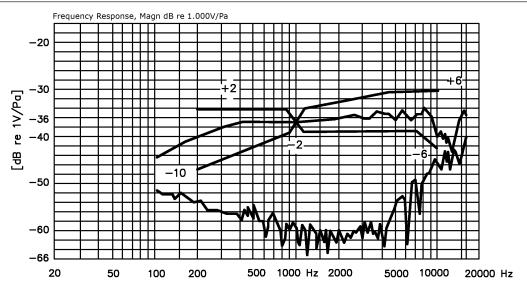
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parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	310	320	330	°C

#### **MECHANICAL DRAWING**

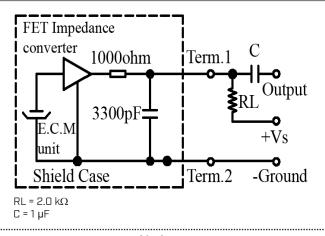


### FREQUENCY RESPONSE CURVE



#### **MEASUREMENT CIRCUIT**

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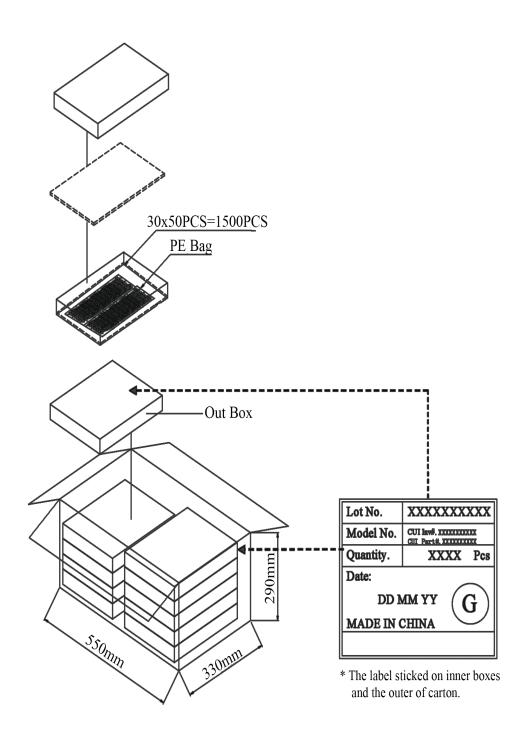
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#### PACKAGING

units: mm

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Outer Box Size: 310 x 248 x 49 mm Carton Box Size: 550 x 330 x 290 mm Outer Box QTY: 1,500 pcs per box Carton Box QTY: 15,000 pcs per box



#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	11/28/2016
1.01	brand update	01/17/2020
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.



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