



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PART NUMBER: CMC-2742WBL-25L

DESCRIPTION: electret condenser microphone

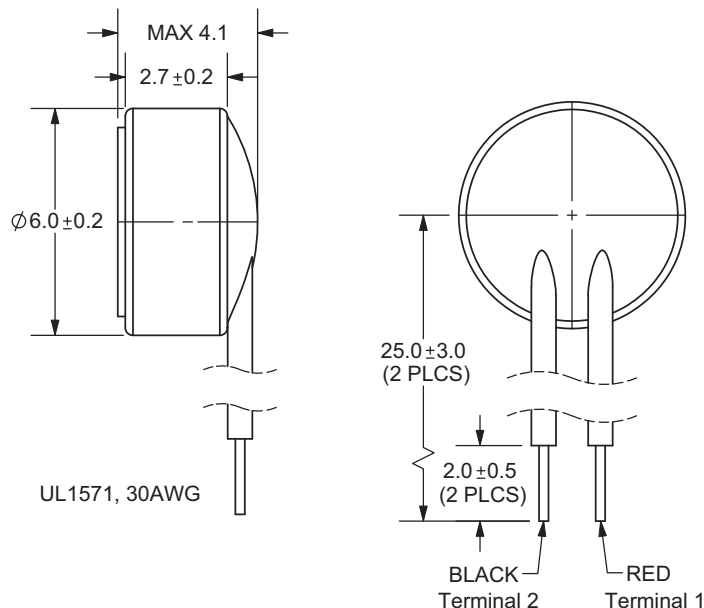
SPECIFICATIONS

directivity	omnidirectional	
sensitivity (S)	-42 ±3 dB	f = 1KHz, 1Pa 0dB = 1V/Pa
sensitivity reduction (ΔS-Vs)	-3 dB	f = 1KHz, 1Pa Vs = 2.0 ~ 1.5 V dc
operating voltage	2 V dc (standard), 10 V dc (max.)	
output impedance (Zout)	2.2 KΩ	f = 1KHz, 1Pa
operating frequency (f)	100 ~ 20,000 Hz	
current consumption (IDSS)	0.5 mA max.	Vs = 2.0 V dc RL = 2.2KΩ
signal to noise ratio (S/N)	57 dBA	f = 1KHz, 1Pa A-weighted
operating temperature	-20 ~ +70° C	
storage temperature	-20 ~ +70° C	
dimensions	ø6.0 x 2.7 mm	
weight	0.22 g max.	
material	Al	
terminal	wire type (hand soldering only)	
RoHS	yes	
dustproof and waterproof level	IP57	

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

APPEARANCE DRAWING

tolerances not shown: ±0.3mm

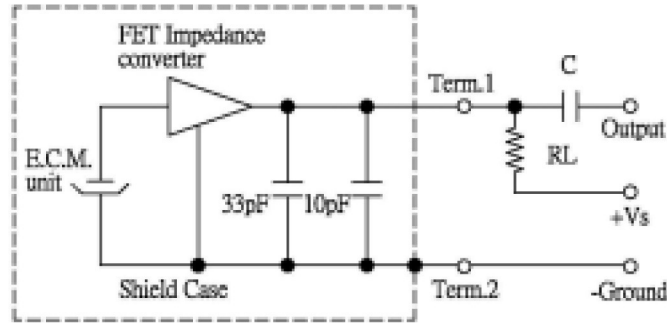


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MEASUREMENT CIRCUIT

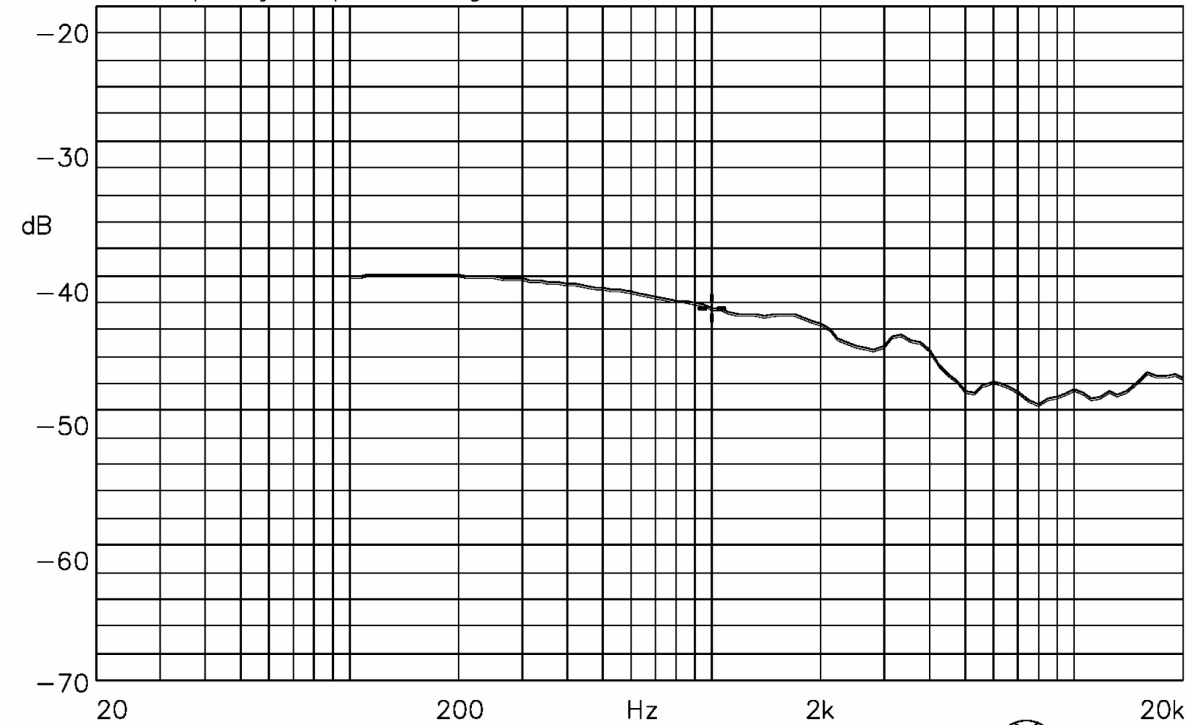
$R_L = 2.2K\Omega$



Schematic Diagram

FREQUENCY RESPONSE CURVE

X: 1.0000kHz Y: -42.36dB ZA: Live Curve SSR Fund.
A: Frequency Response, Magn dB re 1.000



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lode: SSR





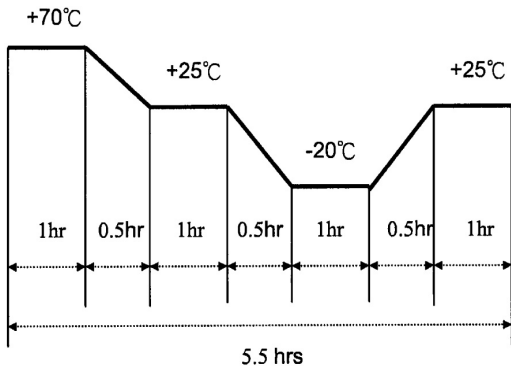
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MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability (connector excepted)	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in a solder bath of 270 ±5 °C for 3 ±0.5 seconds.	90% min. stripped wires will be wet with solder. (except the edge of the terminal)
lead wire pull strength	The pull force will be applied to double lead wire: Horizontal 4.9N (0.5kg) for 30 seconds	No damage or cutting off.
vibration	The part will be measured after applying a vibration amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	After any tests, the sensitivity should be within ±3dB compared to the initial measurement.
drop test	The part will be dropped from a height of 1 m onto a 20 mm thick wooden board 3 times in 3 axes (X, Y, Z) for a total of 9 drops.	

ENVIRONMENT TEST

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +70 °C for 72 hours.	The part will be measured after being placed at +25 °C for 6 hours. After any tests, the sensitivity should be within ±3dB compared to the initial measurement.
low temp. test	After being placed in a chamber at -20 °C for 72 hours.	
humidity test	After being placed in a chamber at +40 °C and 90±5% relative humidity for 240 hours.	
temp. cycle test	The part shall be subjected to 10 cycles. One cycle will consist of: 	

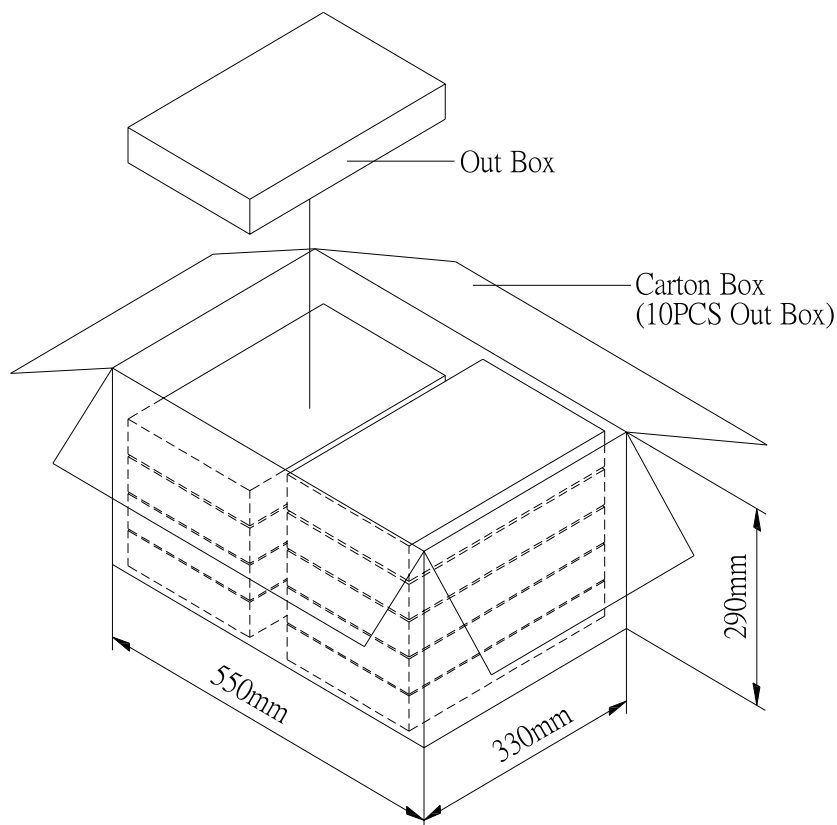
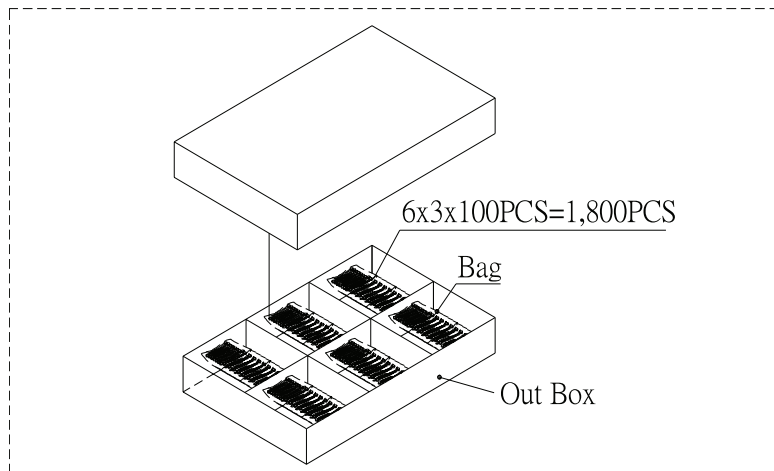
TEST CONDITIONS

standard test condition	a) temperature: +5 ~ +35 °C	b) humidity: 45 - 85%	c) pressure: 860-1060 mbar
judgement test condition	a) temperature: +25 ±2 °C	b) humidity: 60 - 70%	c) pressure: 860-1060 mbar

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PACKAGING



Out Box	310mmx248mmx49mm	1x1,800PCS=1,800PCS
Carton Box	550mmx330mmx290mm	1,800PCSx10=18,000PCS