

Rectangular loudspeaker 20x40x8.4 mm With cable and connector

CR4020C084ZN8F

Revision

Date	Version	Status	Changes	Approver
2018/03/13	V0.1	Draft	First release	LC

Product image





Specifications

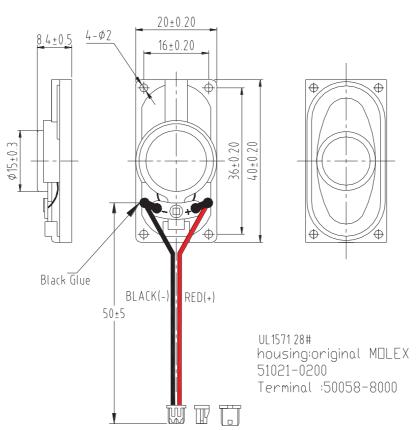
Parameter	Conditions/Description	Values	Units
Rated Input Power		2	W
Max Input Power		3	W
Rated Impedance	at 2.0 kHz	8±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in1.0W/0.5M average (0dB SPL=20μPa)	85±3	dB
Resonant Frequency (Fo)	at 1.0 V	650±20%	Hz
Frequency Range	Output S.P.L10dB	Fo~6K	Hz
Distortion	at 1K Hz, input Rated Power	< 10%	-
Magnet	NdFeB	Ф11*1.5	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 4K Hz	4.0	V
Polarity	cone will move forward with positive dc current to"+" terminal		
Weight		15	g
Operating Temperature		-30~+70	°C
Storage Temperature		-40~+80	°C

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

Mechanical drawing

Units: mm

Tolerance: ±0.5mm



Construction detail

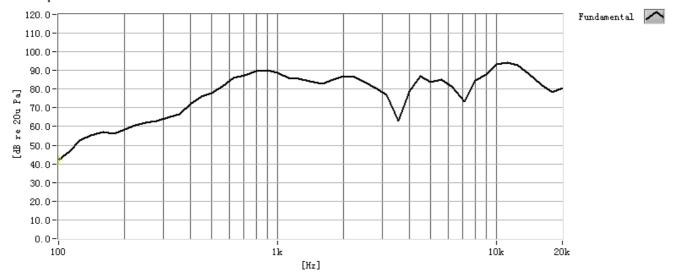
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	Gasket	1	Paper	
2	Diaphragm	1	Cloth	
3	VOICE COIL	1	Paper Cu	
4	Plate	1	SPCC	
5	Magnet	1	NdFeB	
6	PCB Terminal	1	Paper+steel	
7	Frame	1	ABS	

Response curves

Frequency Response Curve

Test condition: 1.0W/0.5M

XY Graph 12



Specifications

Reliablity test

1	Reliability Test Performance	After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Test	96 hours at +70°C±3°C
3	Low Temperature Test	96 hours at -30°C±3°C
4	Humidity Test	96 hours at +30°C±3°C, 92-95% RH
5	Temp./Humidity Cycle	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of 90 ~ 95 % RH 65°C 0.5hr 6hrs 0.5hr 5hrs
6	Vibration Test	Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2 hours each of 3 perpendicular directions
7	Drop Test	Drop the speaker contained in normal box onto the surface of 40mm thick board 10 times from the height of 75cm
8	Operation Life Test	Must perform normal with program White-Noise source at Rated Power for 96 Hours
9	Termination Strength	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;

Measuring method

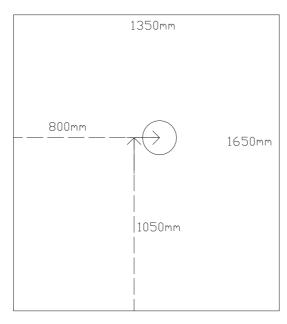
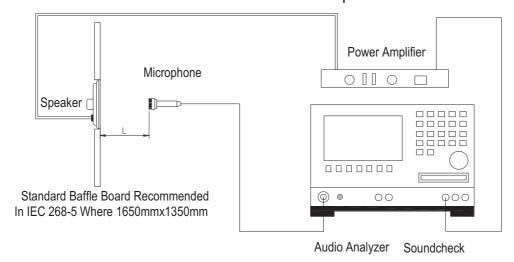


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker



L=50cm

Fig. 2 Speaker Test Condition

Packaging

Remarks:

units: mm

50pcs per tray

10 trays for unit, 2 units per carton

Total: 1000 pcs per box

Size: 34.5*26.5*30.5cm

