multicomp PRO

RoHS Compliant



Features

- 50mm dynamic speaker
- 8Ω, 3W max.
- Mylar cone
- Widely used in products that require voice, music & sound reproduction.
- Applications include Access & Security, Medical Products, Parking Meters, Lift Panels, Toys & Games, PDAs, Computers.

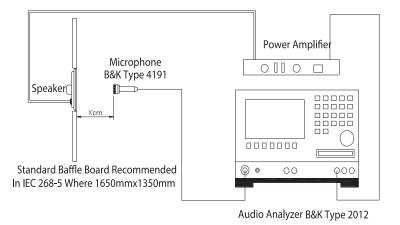
Specifications

Dimension	: φ50×18.2H
Rated Input Power	: 2W
Max Input Power	: 3W
Rated Impedance	: 8 ±15% Ω /1KHz/1V
Resonance Frequency(f0)	: 400 ±20% Hz/1V
Sound Pressure Level	: 84±3 dB at (AVG1.0,1.2,1.5,2.0)KHz 1w/1m baffleboard (IEC)
Frequency Range	: FOHZ to 17KHz
Total Harmonic Distortion	: 5%MAX. at 1KHz, 1.0W
Polarity	: When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphram shall move forward
OperationTest	: Must be normal at sine wave and program source 2W.
Buzz,Rattle,etc.	: Should not be audible at 4.0V sine wave between (FO Hz to 10kHz)
TOTAL WEIGHT	: 47g ±10%
Magnet (Ferrite)	: Φ28.5mm × 12.5mm × 5mm
Appearance	: Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
Operating Temp. Range	: -40°C to +80°C
Storage Temp. Range	: -40°C to +80°C
ENVIRONMENTAL TEST	
High temp. Test	: Keep 96 hours at +80°C \pm 3°C and leave 3 hours in normal temperature and then check
Low temp. Test	: Keep 96 hours at -40°C \pm 3°C and leave 3 hours in normal temperature and then check
Humidity test	: Keep 96 hours at + 40°C ±3°C relative humidity 90±5% and leave 3 hours in normal temperature and then checked.
Thermal cycle test.	: Low temperature: -40°C ±3°C, temperature:+80°C ±3°C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
Vibration	: Speaker shall be measured after being applied vibration of amplitude of 1.52mm with 10 to 55Hz band of vibration frequency to each of X, Y, Z 3 direction for 2 hours
Drop test	: Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm
Load test	: Rated Power white noise is applied for 96 hours
Terminal strength test	: Capable of withstand 1N load for 30seconds without resulting in any damage or rejection.

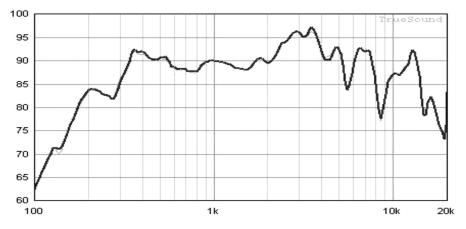
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Standard test condition of speaker



Frequency Response Curve



Material Specification

No.	Part Name	Q'ty	Material	
1	Frame	1	PP	
2	PCB Terminal		SPCC	
3	Magnet		Ferrite	
4	Yoke		SPCC	
5	Voice Coil		Cu	
6	Diaphragm		Mular	
7	CAP		Mylar	

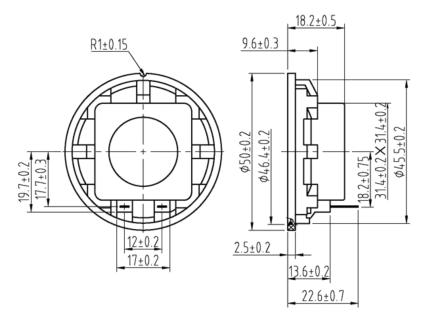
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8Ω Speaker

multicomp PRO

Diagram



Part Number Table

Description	Part Number	
Dynamic speaker, 50mm, 8Ω , 3W	MCABS-280-RC	

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