Fireproof Ceiling Speaker High Temperature: 120°C UL94V-0

SM - 5004/V04

Description:

Extremely sensitive to sound and music, SM-5004/V04 provides high sensitivity and high performance output units to integrate with any audio system. The loudspeaker will reproduce the professional and the smoothest music at any time. All units within the range are fully fireproof to be used in environments with high temperature. The most attractive feature, however, lies with its thinness –



a mounting depth less than two inches will allow it to be installed into any place and any surface panel. As classic round style loudspeaker, it can blend into any environment both indoor and outdoor to bring you the most comfortable music zone. Fireproof feature gives the units the best chance to stand against 120° C high temperature.

SM-5004/V04 provides a great freedom to clients for integration with any audio system. PA audio system, home audio system, car audio system and any other type of audio system in areas with high temperature will be inspired by this series. Applications include gas station, kitchen, restaurant, food preparation area, chemical laboratories and other similar environments. Completely fireproof, waterproof, resistant to UV radiation, acid, alkali, chlorine and other chemicals are exactly the qualities needed for operating in difficult and challenging environments.

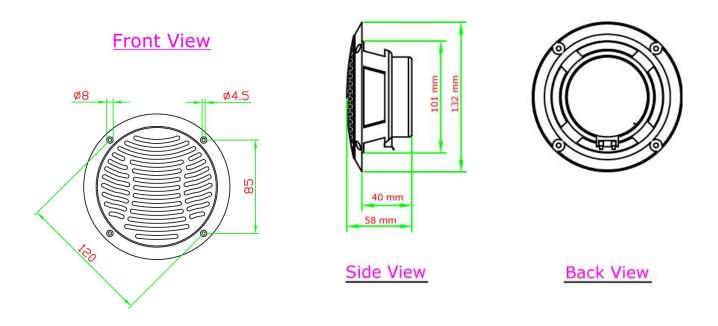
Specification

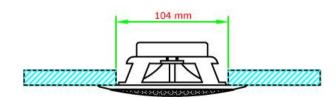
Model	SM - 5004/V04	
Loudspeaker size	4" round type	
Loudspeaker type	Fixed cone full range	
Power handling RMS	20 W / 40 W	
Average Sensitivity 1W/1m	$85\pm 2\;dB$	
Maximum SPL 1W	$99\pm2~dB~/~20W$	
Frequency response	270 Hz ~ 18 kHz	
Impedance	4 ohms	
Operating temperature	-20°C ~ 120°C	
Exterior diameter	132 mm	
Mounting depth	40 mm	
Weight	285 g	

Features			
Loudspeaker type	Full range (UL94V-0)		
Cone type	Fiber glass fixed cone (UL94V-0)		
Mounting type	Surface mounting		
Fitting	Screw		
Mechanism			
Colour	White / black		
Cable type	Corrosion proof silicon coated terminal		
	wire		
Qualification	IP65 Rating		
	UV Resistant		
	RoHS conform (2002/95/EC)		
	III QAV 0 compliant		



Dimensional Diagram :





Characteristic diagrams :

URSORS4 89.47 0.00 215.69	ETA ISelect Curve TABI Display IDlata Gurve INIANE Curve IEIrasm Gurve INISI Osc On/OFF	[PuPd] Page Up/Dn [Fi]Graph ER]unSwp [Fi]Move Cursors [1-9] Cursor Step [[9]Rel [[10]Abs [1]Mfo [[ESC]Exit	3:	SPL
188 dB +++	<pre>> < Magnitude ></pre>	Sound Pressure Level	< Phase >	Deg 18
92		Am		A 13
88				
70				- ¥
50				
58				-4
40				-9
38				-13



SCIENTIFIC DESIGN SOFTWARE Driver Parameters From Measurement Data Date: 11-17-2008 Data for driver: _____ Entered Data as Follows: 4.20 ohms Entered driver DC resistance (Re) Entered driver resonance frequency (Fs) 270.06 hertz Entered driver maximum impedance at Fs 11.02 ohms 247.41 hertz at Entered driver F1 frequency Entered driver F2 frequency 6.80 ohms 298.50 hertz at 6.80 ohms Calculated Square root of F1*F2 271.80 hertz Calculated error factor 0.60 percent Compliance calculated by ADDED MASS method Entered added mass 10.00 grams Entered driver new resonance frequency 140.88 hertz 87.00 mm Entered driver piston diameter 4.00 mm Entered driver magnet gap depth Entered driver voice coil length 4.30 mm _____ Calculated Thiele/Small Parameters: Free Air Resonance (Fs)=SQR(F1*F2) 271.80 hertz 3.2843 Qts Qes 5.3069 Qms 8.62 Equivalent acoustic compliance (Vas) 0.46 liters 0.0059 square meters Piston area (Sd) DC resistance (Re) 4.20 ohms 5.94 ccm Volume displacement (Vd) Linear displacement (Xmax) 1.00 mm Power handling (Pe) TO BE ENTERED Coil Inductance (Le) TO BE ENTERED Reference Efficiency (Ref Eff) 0.17 perces 0.17 percent 51.22 hertz Efficiency Bandwidth Product (EBP) _____ Other Calculated Data: _____ Moving Mass of Diaphragm only (Mmd) 3.41 grams 3.67 grams 0.26 grams 0.00009 m/N 2.23 N/A Moving Mass of Diaphragm & Air Load (Mms) Mass of Air load on diaphragm (Ma) Compliance (Cms) BL product (BL) Sensitivity (SPL 1w/1m) 84.26 dB END OF REPORT

