


SPECIFICATIONS FOR ELECTRO-MAGNETIC COMPONENTS DIVISION

DATE	REV.	REVISION RECORD	DESIGNER	APPOVER
2005.08.23	A	Draft	QI XINHUA	MENG ZHENKUI
2005.11.25	B	Modify pads surface plating	QI XINHUA	MENG ZHENKUI
2006.01.10	C	Update the frequency response	QI XINHUA	MENG ZHENKUI

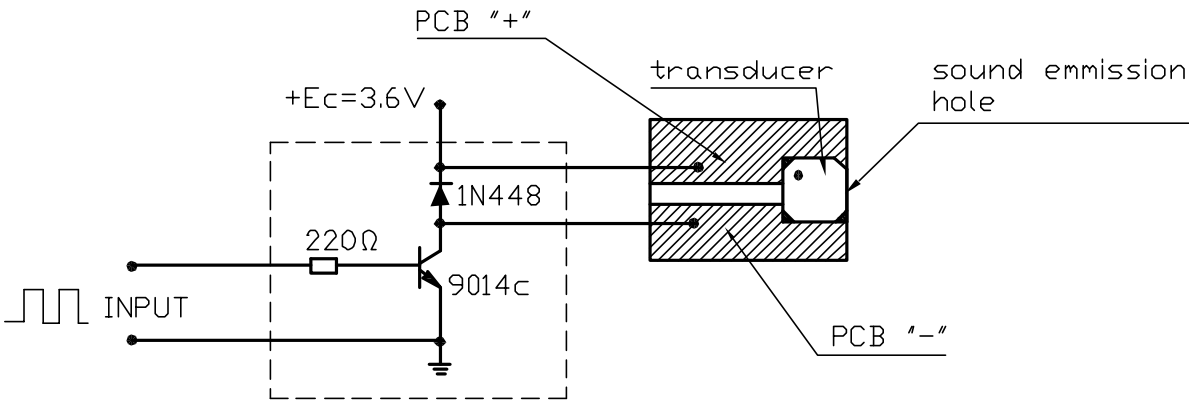
DATE		2006.01.10		<div>DET801J-13-G</div> <div>ELECTRO-MAGNETIC AUDIO TRANSDUCER</div>				<div>AAC ACOUSTIC TECHNOLOGIES (SHENZHEN) CO., LTD.</div>	
DESIGNER		QI XINHUA							
CHECKER		PAN XUDONG							
APPOVER		MENG ZHENKUI							
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1.SPECIFICATIONS

Type	DET801J-13-G	Units
Rated Voltage	3.6	Vo-p
Operating Voltage	2.5~4.5	Vo-p
Rated Current *	Max.100	mA
Coil Resistance	16±1	Ωhm
Sound Output at 5cm *	Min.96	dB
Rated Frequency	2500	Hz
Operating Temperature	-40~+75	°C
Storage Temperture	-40~+85	°C

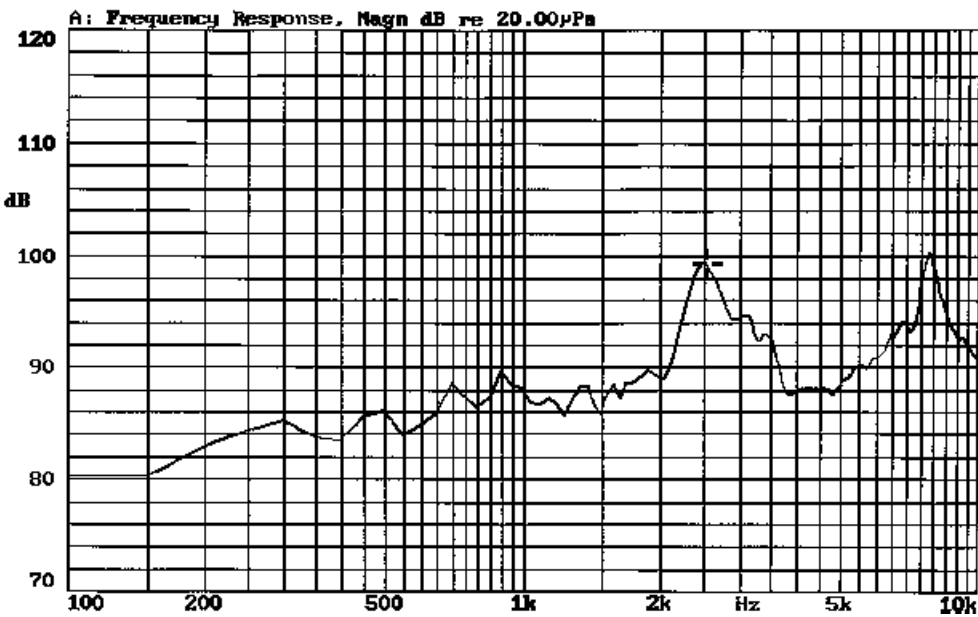
* Value applying rated voltage and frequency
(1/2 duty square wave).




STANDARD DRIVE CIRCUIT

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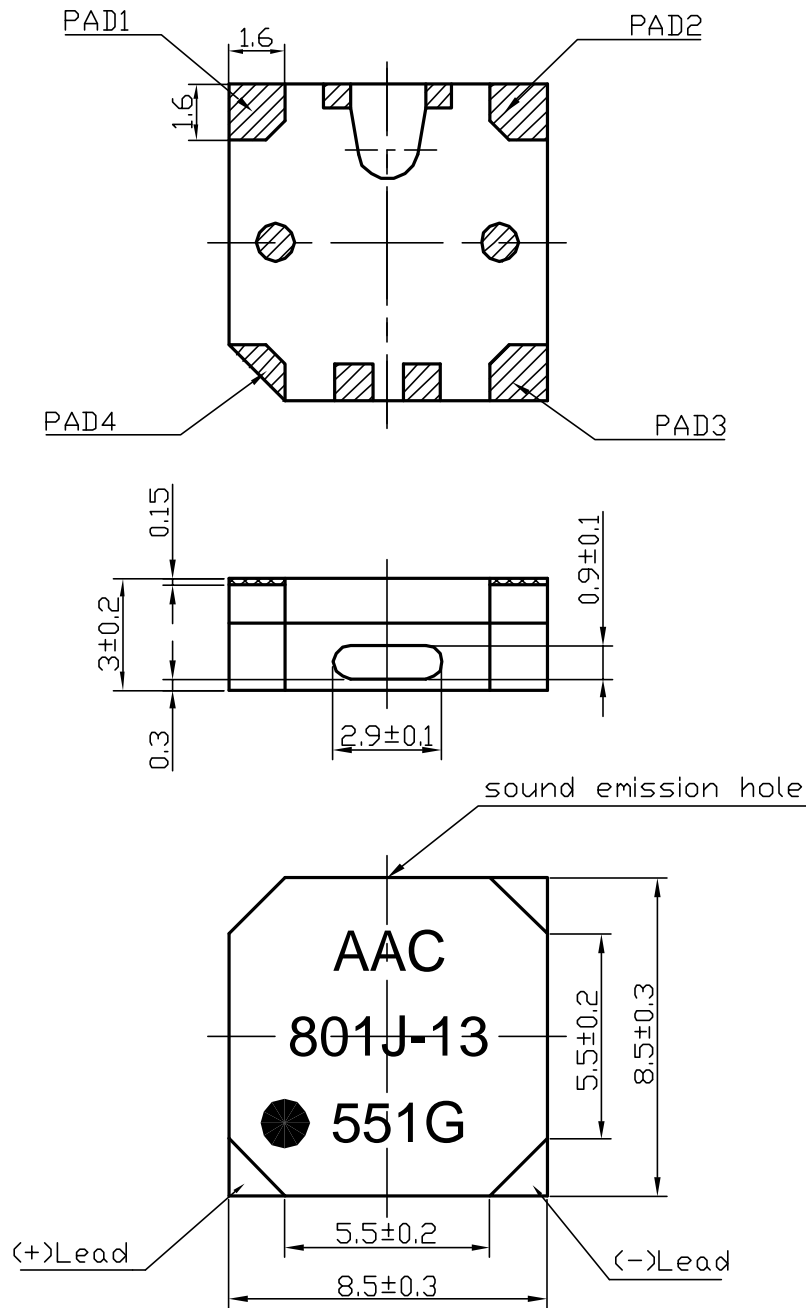
2.FREQUENCY RESPONSE CURVE




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3.DIMENSIONS




Solder pads coplanarity: Flatness from bottom surface of sounder will be 0.08mm max.,
Solder pads material: copper-tin-phosphor alloy (under plating: Ni; surface plating: Sn),
Import date code:551.

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APPOVER		DONG LEPING								
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4.QUALIFICATION TESTS

Item		Method of test	Standard
1	Temperature Characteristics	All data initially taken at +25°C, then repeated at -40°C and again at +85°C.Components must be fully stabilized at temp. extremes before data is taken,which may require up to a 4 hour soak.	The coil resistance of the device shall not lose more or raise more than 7 .
2	Temperature shock	<div><div><div>-40°C</div><div>45min</div></div><div><div>+85°C</div><div>45min</div></div></div> 32 cycle 90 min at 1 cycle 8 second max. transition time between Temp. extremes	After the test,there should be no problems with appearance, function and spec. must satisfied.
3	Static Humidity	Precondition at +25°C for 1 hour.Then expose to +70°C with 90 to 95% relative humidity for 240 Hours.Finally allow to dry at room ambient for 4 hours before taking final measurements.	
4	Random Vibration	Vibrate randomly from 20 to 2000Hz using the following PSD profile:It is a +3 dB/octave from 20Hz to 80Hz,then 0.053 g ² /Hz from 80Hz to 350Hz,and finally at -3dB/octave from 350Hz to 2000Hz.The PSD tolerance is ±3dB from 20 to 1000Hz and ±6dB above 1000Hz.The Analyzer Bandwidth to be set at 25Hz BW from 20 to 200Hz,50Hz BW to 1000Hz,and finally 100Hz BW to 2000Hz.The test time is 15 minutes per plane.	

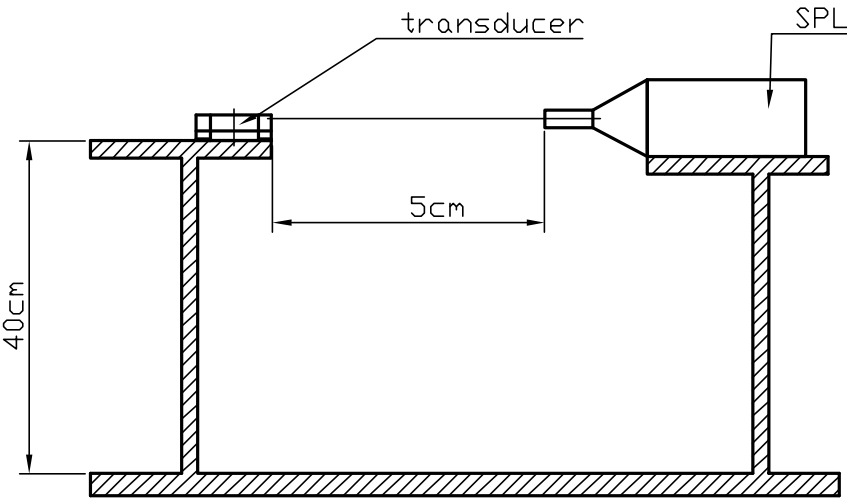
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Item		Method of test	Standard								
5	Mechanical Shock	Secure samples as required.Then subject samples to three onehalf sine shock pulses(3000 g's for 0.3milliseconds)in each direction(for six total)along each of the mutually perpendicular axes for a total 18 shocks.	After the test, there should be no problems with appearance, function and spec. must satisfied.								
6	Operating Life	Subject samples to +85°C for 1000 hours under full rated power.									
7	Lead Pull Test	Subject test leads to an increasing pull force(between the wire or lead and the transducer)until destruction occurs.Record the point of destruction .The minimum pull strength is 1000 grams(2.2 pounds).									
8	Reflow Setup	<div><div><div>Temperature (°C)</div><div><div><div>300</div><div>250</div><div>200</div><div>150</div><div>100</div><div>50</div><div>0</div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div>Time (Minutes)</div></div><div><table><tr><td>Condition</td><td>Exposure</td></tr><tr><td>Total Time Above 220°C</td><td>Between 50-60 sec.</td></tr><tr><td>Peak Temperature</td><td>260±5°C,10sec.</td></tr><tr><td>Ramp Rate</td><td>Less than 4°C/sec.</td></tr></table></div></div>	Condition	Exposure	Total Time Above 220°C	Between 50-60 sec.	Peak Temperature	260±5°C,10sec.	Ramp Rate	Less than 4°C/sec.	After the test, there should be no problems with appearance, function and spec. must satisfied.
Condition	Exposure										
Total Time Above 220°C	Between 50-60 sec.										
Peak Temperature	260±5°C,10sec.										
Ramp Rate	Less than 4°C/sec.										

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5.INSPECTION TEST FIXTURE

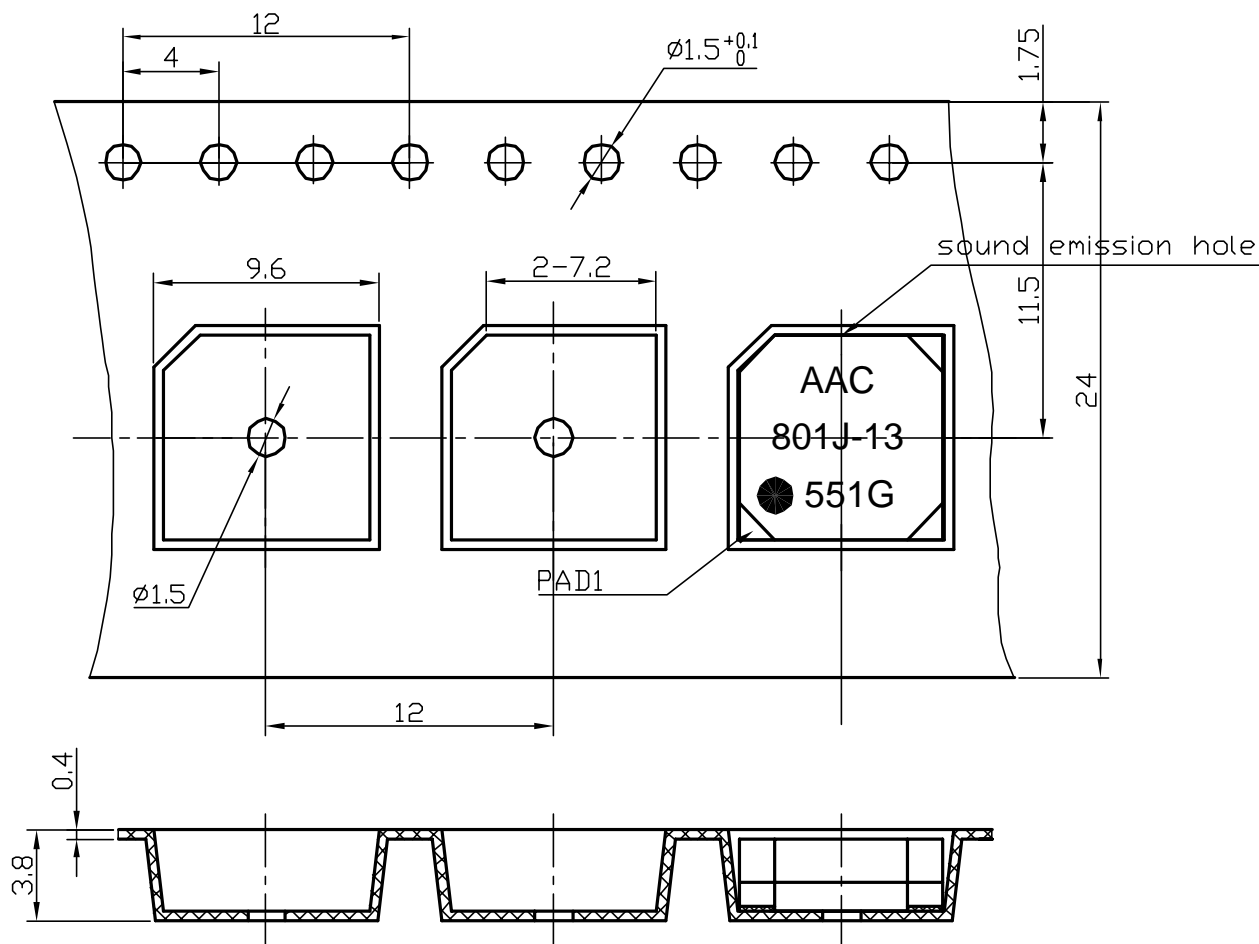



Inspection Test Fixture

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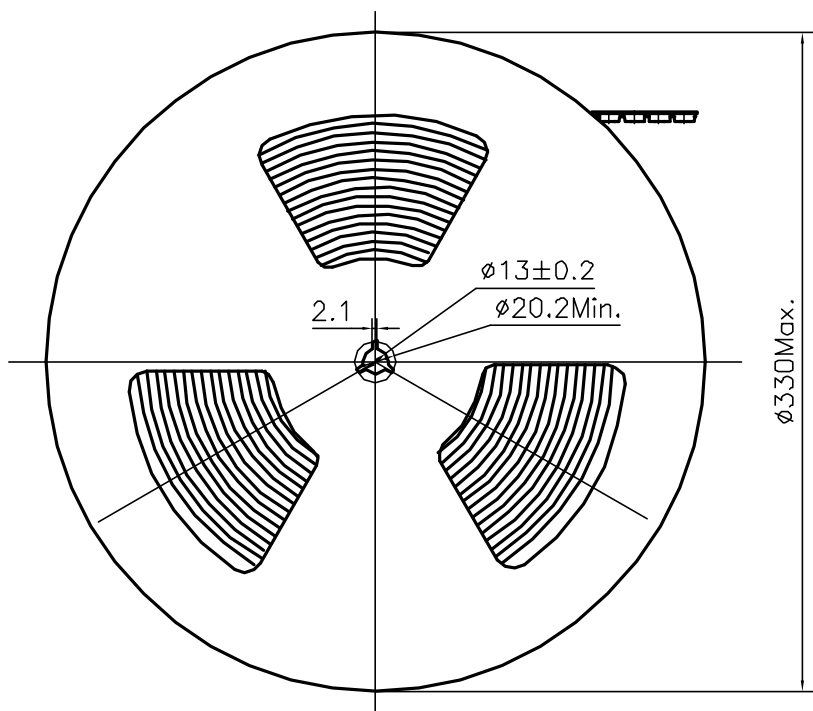
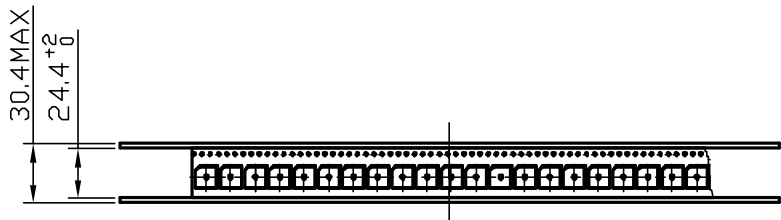
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6.PACKING




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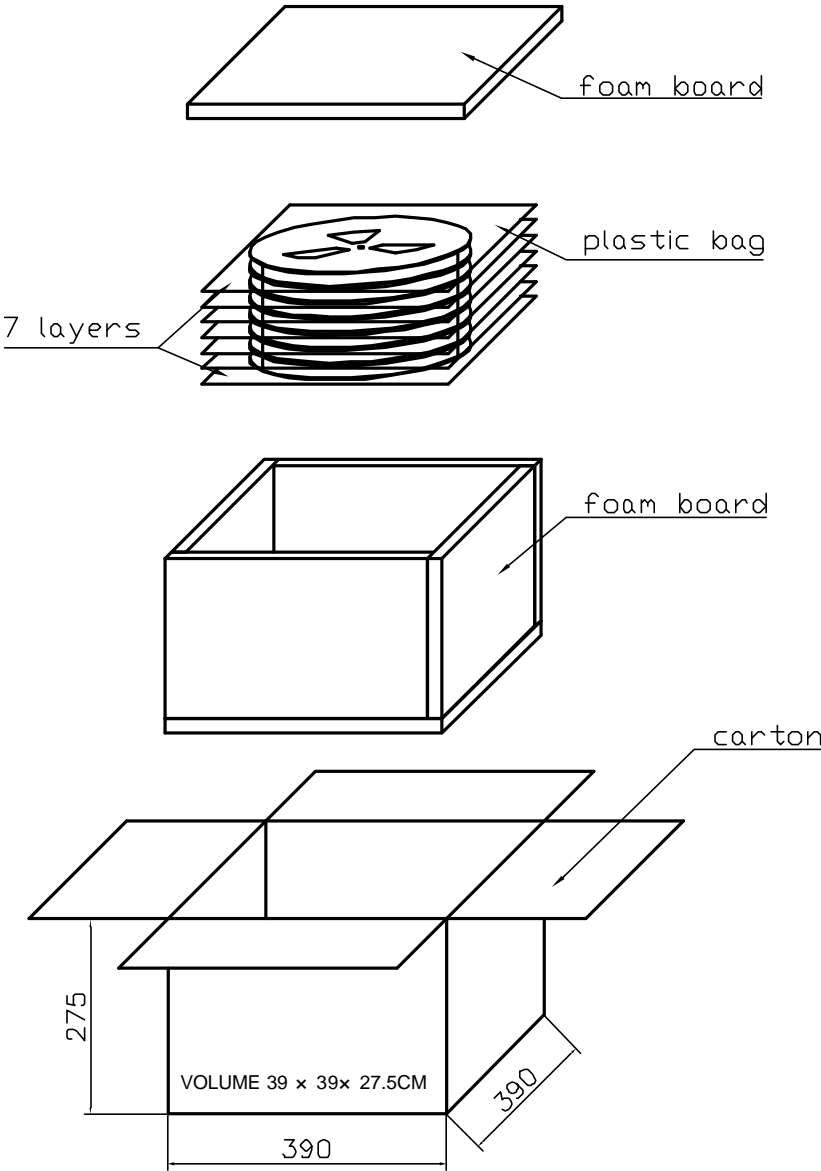
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1000 PCS PRODUCTS/1 reel

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7000 PCS PRODUCTS/1 CARTON

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