



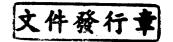
MODEL NO. OBO-0905A-A2

PART NAME
Magnetic Transducer

SHEET 1 OF 8

	Triagnetic Transducei				1 OF 8		
ALTERNATION HISTORY							
Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
* 2	MAR,30'07	0612015	F	Conformity RoHS Directive (2002/95/EC) Requests.	8	[基]	陳建合
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REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
F	MAR,30,2007	Eileen	陳建合	陳建合





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Features: Conformity RoHS Directive (2002/95/EC) Requests.

1 · General Specifications:

	ltems	Spec.	Conditions	
1.1 Rated Voltage		5.0 Vo-p	Vo-p Vcc	
1.2	Operating Voltage	4-6 Vo-p	Vo-p	
1.3	Resonant Frequency	2730Hz	Square wave 1/2 Duty	
1.4	Sound Pressure Level at 10cm	min. 85dB	Standard State, Standard Drive circuit, Rated Voltage, Distance	
1.5	Average Current Consumption	max. 80mA	at 0.1m(A—weight) 2730Hz Squarewave 1/2 Duty.	
1.6	Coil Resistance	30±5Ω		
1.7	Operating Temp. Range	-20°C~+60°C	SPL≧ 80dB at "1.4"	
1.8	Storage Temp. Range	-40°C ~+85°C		
1.9	Housing Material	PBT		
1.10	Weight	0.7g		
1.11	Frequency Response	As per Fig.1		



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2 · Standard test Conditions:

2.1 Standard State Ordinary Temperature

15°C to 35°C

Ordinary Humidity

25% to 85%

Ordinary air pressure

860 to 1060hPa

In case of doubtful judgment, the test is re-performed under Basic State.

2.2 Basic State

Temperature

20±2°C

Humidity

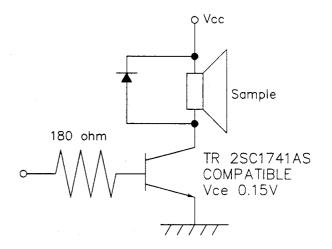
60% to 70%

Ordinary air pressure

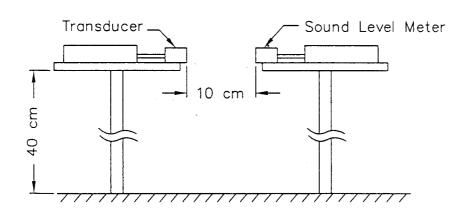
860 to 1060hPa

3 \ Test method:

3.1 Standard Drive Circuit



3.2 Standard Test Fixture



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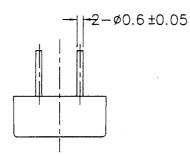
SPECIFICATIONS

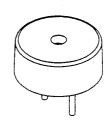
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PART NAME Magnetic Transducer SHEET 4 OF 8

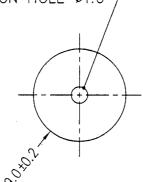
4 · Mechanical Layout and Dimensions:

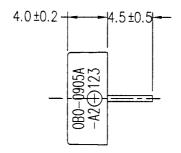
UNIT: mm

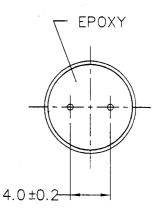




SOUND EMISSION HOLE Ø1.6-







Note:

Meaning of Stamp Mark

123 : Production Lot No.

1 : Year 2001 (last 1 figures of the year)

23 : week (01 \sim 55) 0905A-A2 : Model No.

 \oplus : Polarity indentification mark

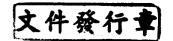
5 · Soldering Condition:

5.1 Wave Soldering

Peak temperature	Dipping time	Soldering
+ 260°C	5 seconds	1 time

5.2 Hand Soldering

Iron Tip Temperature	Soldering time
+ 380°C Max.	Duration 3 seconds Max.





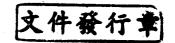
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6 · Reliability test:

No	Items	Test Conditions	Evaluation Criteria
1	High Temp. Storage	The part shall be capable of withstanding a storage temperature of +85±2°C for 96 hours	After the test the part shall meet specifications without any degradation in appearance and
2	Low Temp. Storage	The part shall be capable of withstanding a storage temperature of -40±2°C for 96 hours	performance except SPL. SPL shall be 80dB or more.
3	Thermal Shock	The part shall be subjected to 50 cycle. One cycle shall consist of : +80°C -30°C -30MIN-30MIN- Transfer Time : 10 minutes	
4	Humidity Test	The part shall be subjected to +60±2°C, 90~95% R.H. for 96 hours and expose to room temperature for 6 hours.	
5	Vibration	10 - 55 - 10Hz, Sinewave , Sweep 15 min. X,Y,Z 3 Direction 2 hours each, Total 6 hours.	
6	Free Drop	The part only shall be dropped from a height of 100cm onto the 10m/m thick hardwood board 10 times, any directions.	





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No	Items	Test Conditions	Evaluation Criteria
7	Ordinary Temp. Operating Test	The part shall be subjected to 96 hours at 25±10°C. Input 5.0 Vo-p Squarewave 1/2 duty 2730Hz	
8	High Temp. Operating Test	The part shall be subjected to 96 hours at +60±2°C. Input 5.0 Vo-p Squarewave 1/2 duty 2730Hz	
9	Low Temp. Operating Test	The part shall be subjected to 96 hours at -20±2°C. Input 5.0 Vo-p Squarewave 1/2 duty 2730Hz	
10	Solder ability (for lead pin unit)	Melting solder temp. 260±10°C Soaking time: 5±0.5sec.	95% new solder shall be covered with the surface of lead pins.

Notes

As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.

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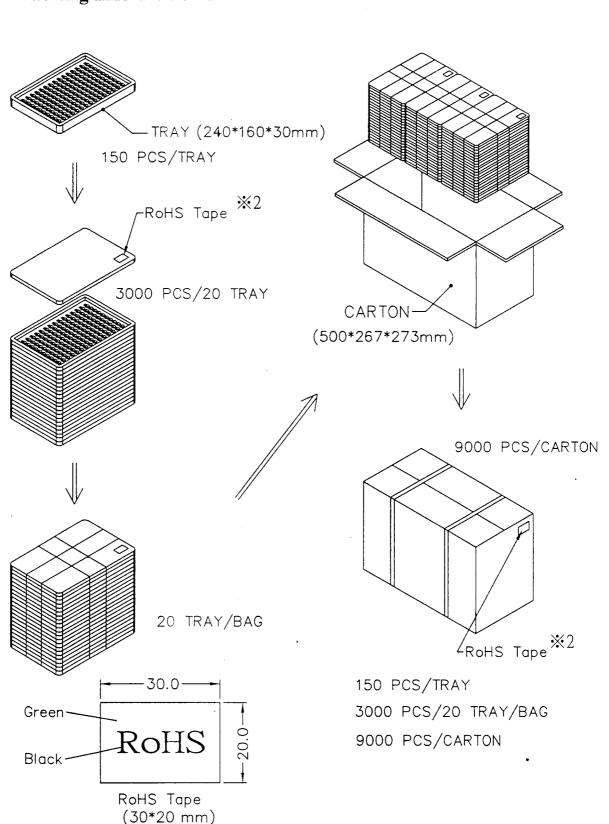
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7 · Packing Information:



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