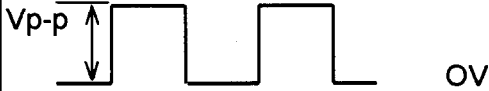


# SPECIFICATIONS FOR QMX-05

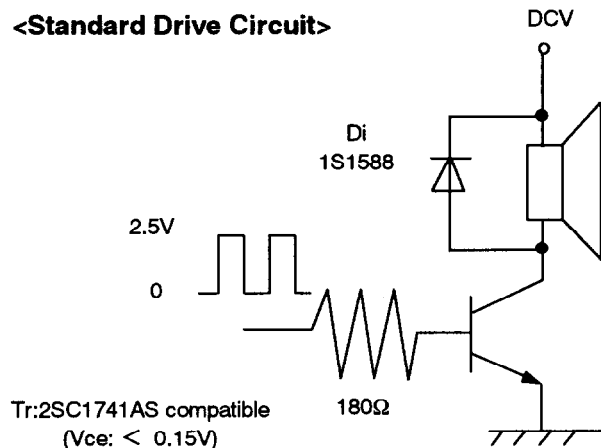
Items		Specifications	Conditions
1	Rated Voltage	5 V	
2	Operating Voltage	3.0 to 8.0 V	
3	Mean Current Consumption	Max. 40mA	Applying rated voltage. 2,400Hz square wave, 1/2 duty Subject to 'Standard State'
	Peak Current Consumption	Max. 120mA	
4	Coil Resistance	$47 \pm 5.0 \Omega$	
5	Sound Output	Min. 85dB (Typical 92 dB)	Distance at 10cm (A-range) Applying rated voltage 2,400Hz square wave, 1/2 duty Subject to 'Standard State'
6	Rated Frequency	2,400Hz	
7	Reproduced Frequency		
8	Operating Temp.	-40 °C to +85 °C	SPL : Min. 75dB (at Condition 5 above)
9	Storage Temp.	-40 °C to +85 °C	
10	Lead(pin) pull	10 N	Pulled in the direction along the lead(pin) axis.
11	Dimension	$\phi$ 12mm x H9.0mm	See attached drawing.
12	Weight	2.0 gr.	

<Standard State>      Ordinary Temperature      15 to 35 °C  
                                  Ordinary Humidity              25 to 85 %  
                                  Ordinary air pressure          860 to 1060Hpa

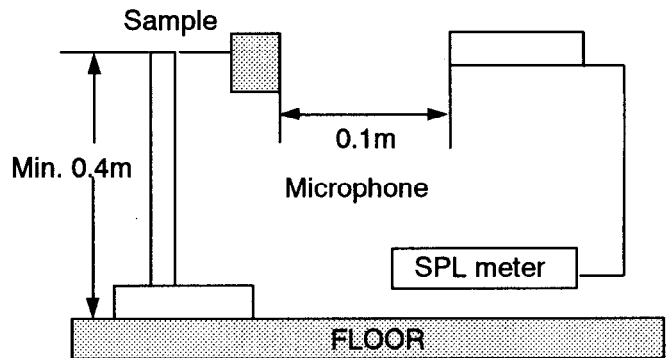
In case of doubtful judgment, the test is re-performed under Basic State.

<Basic State>            Temperature                      20 ± 2 °C  
                                  Humidity                            60 to 70%  
                                  Ordinary air pressure          860 to 1060Hpa

<Standard Drive Circuit>

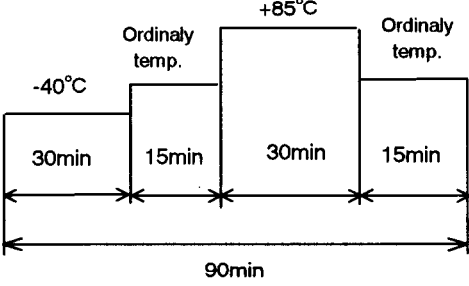
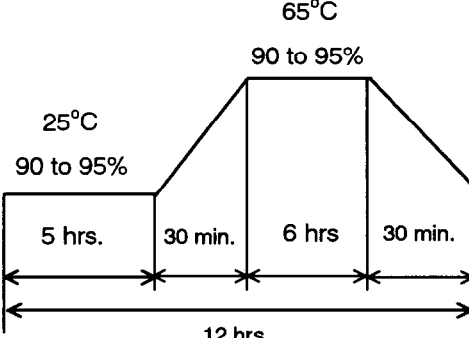


<Standard test fixture>



# RELIABILITY TEST FOR QMX-05

Note : No voltage is applied to the part during Reliability Test No. 1 to 10.

Items	Test conditions	Evaluation standard
1 High temp. storage life	The part shall be capable of withstanding a storage temperature of +85°C for 96hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 80 dB or more.
2 Low temp. storage life	The part shall be capable of withstanding a storage temperature of -40°C for 96 hours.	
3 Temp. cycle	<p>The part shall be subjected to <u>10cycles</u>. One cycle shall consist of ;</p>  <p style="text-align: center;">90min</p>	
4 Temp./Humidity cycle	<p>The part shall be subjected to <u>10cycles</u>. One cycle shall be <u>12hours</u> and consist of ;</p>  <p style="text-align: center;">12 hrs.</p>	
5 Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G max.). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	

About the sounder QMX-05 (DBDZZZZSTA01 for FUNAI ELECTRIC), and the material is not using the following at all in our company process, (Our cooperation factory and a related company are contained.)

And, it is not being used for the purchase material as well at all.

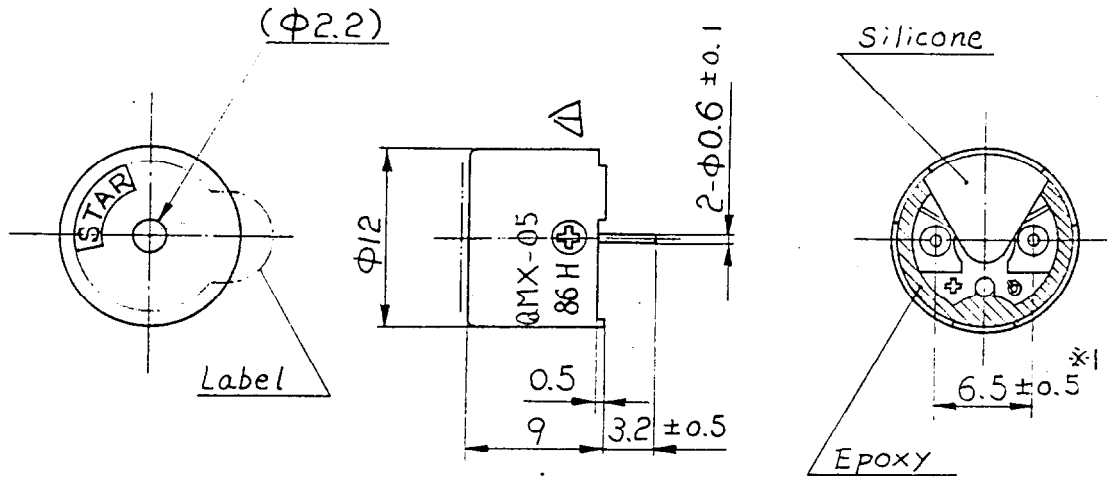
CLASS I MATERIAL :

CFC - 11, 12, 13, 111, 112, 113, 114, 115,  
211, 212, 213, 214, 215, 216, 217

Carbon tetrachloride

Methyl chloroform (1.1.1 Trichloroethane)

Halon - 1211, 1301, 2402



※ 1. Pin tolerance must be applied to the bottom part of pins

Stamp contents

QMX-05 : Product name

Stamp color Silver

97 : The last 2 digits of production year 1997

H : Production month A...January to L...December

⊕ : Polarity mark

TOLERANCE: G.T. = ± 0.3		△	970214	捺印仕様変更 B-1707			
		MARK	DATE	REVISION			
DRAW: H, Yamashina	MATERIAL			STAR MFG. CO., LTD.			
TRACE: <i>[Signature]</i>				CODE		QUANT.	
CHECK: <i>[Signature]</i>				HARDNESS			
APPROVED: <i>[Signature]</i>				SURFACE TREATMENT			
SCALE 2:1				NAME QMX 外形寸法図		DRG. NO.	QMXA-500
UNIT 1 mm							
DATE Sep. 4, '86							

# TMB series packing specification

