SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AS-303Q-F1P1
Customer	
Approval	

Approved By	Checked By	Made By



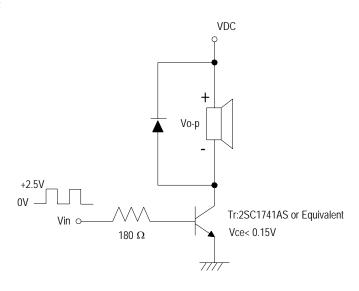
A & B Components

http://www.speaker-tw.com

AS-303Q-F1P1

	Items Units Specifications				Conditions			
01	Rated Voltage	Vo-p	3.0			V _{O-p} 0V		
02	Operating Voltate	Vo-p		2	2~4			
03	Mean Current	mA (Max)	100				Applying rated voltage,rated frequency Square wave,1/2 duty subject to standard state.	
04	Direct Current Resistance	Ohm	15±2.0					
05	Sound Output	dBA (min)	85			Distance at 5cm,applying rated voltage,rated frequency square wave, 1/2duty subject to standard state.		
06	Rated Frequency	Hz	2731					
07	Operating Temp.	$^{\circ}\!\mathbb{C}$	-40 ~ +85					
08	Storage Temp.	$^{\circ}\!\mathbb{C}$	-50 ~ +95					
09	Dimension	mm	Φ	10	Height	2.8	See attached drawing.	
10	Weight	Gram	0.2					
11	Terminal		None				See attached drawing.	

%Standard Drive Circuit:



Standard Conditions:

Temperature 15 ~ 35°C

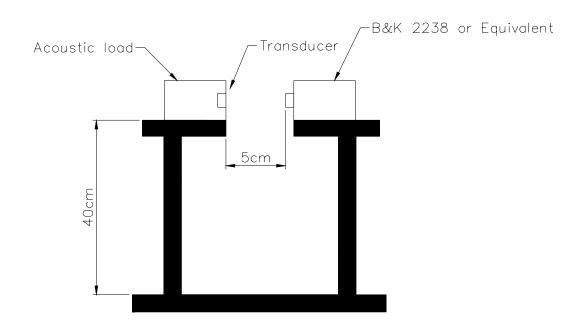
Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

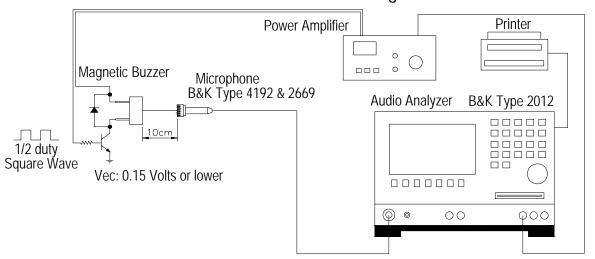
If the result is doubtful, should retested with the conditions below: Temp. $20\pm2^{\circ}\text{C}$, Humidity $60 \sim 70 \%$, Air pressure $860 \sim 1060$ HPa.

*Note:As this product is not protected from foreign material entering, please make sure that any foreign materials(e.g. magnetic powder, washing solvend, 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.

STANDARD TEST FIXTURE



Standard test condition of magnetic buzzer



MODEL: AS-303Q-F1P1

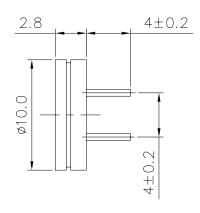
WOUEL: AS-303Q-Fift X:2.7384KHz Y:93.39dB ZA:Live Curve

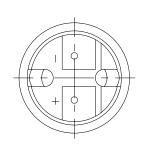
SSR T. RMS

HZ<u>|</u> 2k 1kA: Frequency Response, Magn dB re 20.00 μ Pa 500 100 700 09 80 90 20 dB

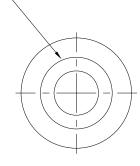
Mode: SSR

REV NO. REVISION NOTE APPROVAL DATE





SOUND EMISSION HOLE Ø6.5



BACK VIEW

TITLE: SOUND TRANSDUCER DIMENSIONS		DRAWN:	Richard 08/15/2001	SCALE: 3/1 SHEET: 1 OF 1	
			DESIGNED:	R&D DEP .	UNITS: mm
PART NO	^{).} AS-303Q-F1P1	1	CHECKED:		$ TOLERANCE \pm 0.2 $ $ UNLESS $ OTHERWISE SPECIFIED:
DWG NO.		- /	APPROVAL:		ONE PLACE DECIMAL ± ***
DWG NO.	DTT-1091	REV	MATERIAL:	PP0	TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***

A & B Components

RELIABILITY TEST

AS-303Q-F1P1

	Item	Test conditions	Evaluation standard
01	High temp. Storage life	The part shall be capable of withstanding a storage Temperature of 95°C for 96 hours.	
02	Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -50°C for 96 hours.	After the test the part shall meet specifications without Any degrance and performance except S.P.L S.P.L shall be 77dB or
03	Temp.cycle	The part shall be subjected 10 cycles. One cycle shall consist of; 95°C -50°C 30min 60min	
04	Temp./Humidity	The part shall be subjected 10 cycles. One cycle shall be 8 hours and consist of; 95℃ 25℃ a b c 2.5hrs 3.0hrs 2.5hrs a,b:90~98%RH c:80~98%RH	more.

RELIABILITY TEST

AS-303Q-F1P1

Item		Test conditions	Evaluation standard	
05	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). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time Of 6 hours.			
06	Fixed drop	The part shall be mounted on 100g jig(standard pc board) and dropped from a height of 152cm onto a concrete floor 5 times in each 6 planes. (a total of 30 times)	After the test the part shall meet specifications	
07	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	without Any degrance and performance except S.P.L	
08	Operating life	1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) with 3V 2731Hz applied. 2. High temperature		