SPECIFICATIONS

CUSTOMER: PRODUCT: PIEZO BUZZER **MODEL NUMBER:** FY-14

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1. SPECIFICATIONS

FY-14

	SDECIEICATIONS	CONDITIONS
ITEMS	SPECIFICATIONS	CONDITIONS
RATED VOLTAGE	12VDC	
OPERATING VOLTAGE	3–16VDC	
RATED CURRENT	LESS THAN 8mA	APPLYING DC RATED VOLTAGE
TONE NATURE	Continuous	
SOUND OUTPUT	MORE THAN 85dB	DISTANCE AT 10 CM FROM A MICROPHONE WITH APPLYING DC RATED VOLTAGE
FREQUENCY	4000±500Hz	MEASURING AT THE RATED DC VOLTAGE
PIN'S STRENGTH	MORE THAN 1kg	
OPERATING TEMPERATURE	-20 ~ +70°C	
STORAGE TEMPERATURE	-30 ~ +80 °C	
DIMENSIONS	SEE FIG. 1 ATTACHED	
APPEARANCE		THERE SHOULD BE NO REMARKABLE STAINS, RUSTS OR FLAWS.

NOTE:

TEST SHOULD BE MADE UNDER THE CONDITIONS OF ROOM TEMPERATURE ($20\pm10^{\circ}$), RELATIVE HUMIDITY ($60\pm20^{\circ}$) AND NORMAL ATMOSPHERIC PRESSURE. IN THE CASE OF DOUBTFUL JUDGMENT, THE TESTING CONDITIONS ARE TO BE CHANGED TO ROOM TEMPERATURE $20\pm2^{\circ}$, RELATIVE HUMIDITY 60-70% AND NORMAL ATMOSPHERIC PRESSURE.

2. INSPECTION STANDARD

FY-14

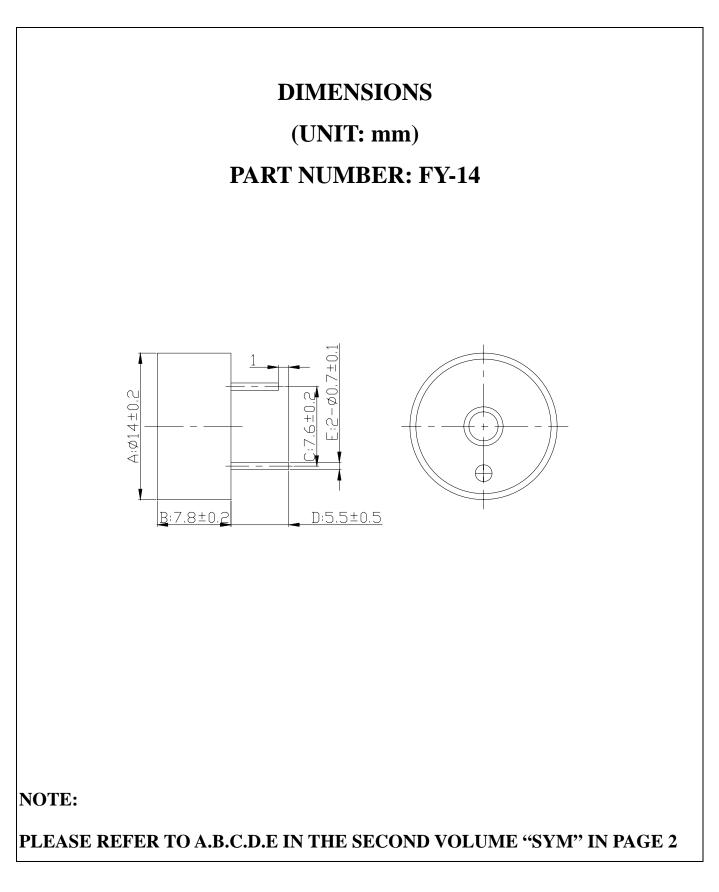
ITEM TESTED	SYM	STANDARD	AQL	LEVEL	INSPECTION BY MEANS OF	REMARKS
NO SOUNDING		3-16Vdc	0.25	II	EARS	AT EACH 3, 12 AND 16 VDC THERE SHOULD BE NO NON- SOUNDING, HARSH SOUND
SOUND OUTPUT		MORE THAN 85dB WHEN APPLYING RATED VOLTAGE	1	II	SOUND PRESSURE LEVEL METER	DISTANCE AT 10CM WITH MOUNTING TO INSPECTION DEVICE IN A STANDARD MANNER(A RANGE)
CURRENT		LESS THAN 8mA WHEN APPLYING RATED VOLTAGE	0.65	Ι	MULTIMETER	
BASIC FREQUENCY		4000±500Hz	0.65	Ι	FREQUENCY METER	
OUTER DIAMETER	А	Φ14±0.2			ELECTRONICS CALIPERS	TO BE MEASURED AT THE MAXIMUM DIAMETER.
OVERALL THICKNESS	В	7.8±0.2	1.5	S-3		
PIN'S PITCH	C	7.6 ± 0.2				
PIN'S LENGTH	D	5.5 ± 0.5				
PIN'S DIAMETER	Е	$\Phi 0.7 \pm 0.1$				
STRENGTH OF TERMINAL PINS		MORE THAN 1KG				BY PULLING EACH PIN
STATIONARY STRENGTH OF BASE		MORE THAN 1KG	1	II	TENSION GAUGE	BY PULLING THE BASE
STATE OF SOLDER			1	II	MAGNIFYING GLASSES	SOLDERED POINTS AND /OR COIL DISPOSITION SHOULD BE PROPER. (CROSSED COIL WIRE ARE NOT ACCEPTED)
RUST			1.5	II	EYES	ANY RUST SHOULD NOT BE ACCEPTED.
STAIN			1.5	II	EYES	THERE SHOULD BE NO RE- MARKABLE STAINS.
ADHESION			1.5	II	EYES	ADHESION SHOULD BE MADE SUFFICIENTAL AND THERE SHOULD BE NO OUTFLOW OF ADHESIVE AGENT.
OTHER APPEARANCE					EYES	
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3. RELIABILITY TEST

FY-14

	METHOD OF TEST	STANDARD		
OPERATING TEMP.	-20 ~ +70 °C			
	STORAGE IN 80°C TEST BOX FOR			
STORAGE IN HIGH TEMP.	96 HOURS THEN EXPOSE TO THE			
	ROOM TEMP. FOR 2 HOURS.			
	STORAGE IN -30°C TEST BOX FOR			
STORAGE IN LOW TEMP.	96 HOURS THEN EXPOSE TO THE			
	ROOM TEMP. FOR 2 HOURS.			
	OPERATE THE BUZZER CONTI-			
LIFE TEST IN THE ROOM	NUOUSLY AT 5 SECONDS ON AND 5			
TEMP.	SECONDS OFF FOR 500 HOURS AT			
	RATED VOLTAGE.			
	MAKE THE TEST FOR 5 CYCLES			
TEMP. CYCLE TEST	WITHOUT APPLYING POWER AS			
	FIG.3, THEN EXPOSE TO THE			
	ROOM TEMP. FOR 2 HOURS.			
	MAKE THE TEST FOR 10 CYCLES	ALL SPECIFICATIONS MUST		
TEMP./HUMIDITY	WITHOUT APPLYING POWER AS	BE SATISFIED AFTER THE TEST.		
CYCLE TEST	FIG.4, THEN EXPOSE TO THE			
	ROOM TEMP. FOR 2 HOURS.			
	MAKE THE TEST FOR THE			
	DIRECTIONS OF X,Y,AND Z FOR 0.5			
	HOURS EACH (TOTAL 1.5 HOURS)			
VIBRATION TEST	TO-AND-FRO SWEEP TIME (FROM			
	10 TO 55 Hz AND THEN FORM 55Hz			
	TO 10Hz) UNDER SINGLE AMPLI-			
	TUDE OF 0.75 mm IS 1 MINUTE.			
	DROP A BUZZER NATURALLY			
	FROM THE HEIGHT OF 700mm			
	ONTO THE SURFACE OF 10mm			
DROP TEST	THICK WOODEN BOARD. TWO			
	DIRECTIONS: THE UPPER AND			
	SIDE OF THE TRANSDUCER ARE			
	TO BE APPLIED FOR THIS DROP			
	TEST RESPECTIVELY ONCE.			

NOTE: THE PINS ARE ALLOWABLE TO DEFORM AFTER DROP TEST.



TYPICAL CHARACTERISTIC CURVES OF FY-14

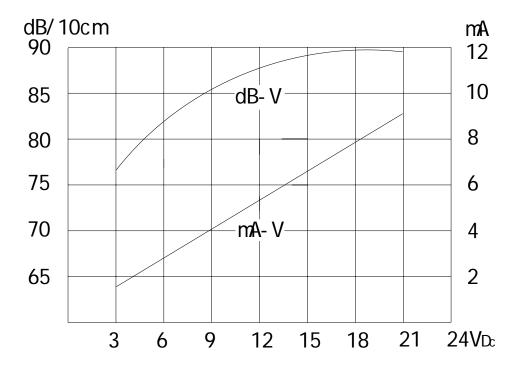
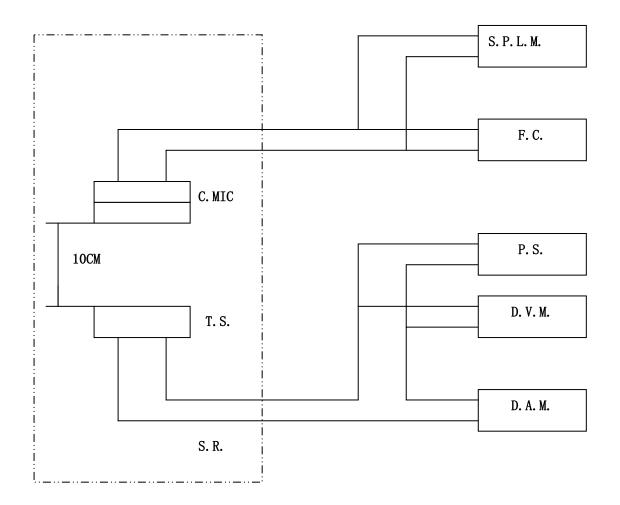


FIG.2

ELECTRICAL CHARACTERISTIC TEST METHOD



S. P. L. M: SOUND PRESSURE LEVEL METER F. C : FREQUENCY COUNTER D. A. M. :DC AMPERE METER S. R. :SOUNDPROOF ROOM D. V. M. :DC VOLT. METER T. S. :TESTING SAMPLE C. MIC :CONDENSER MIC P. S. :POWER SUPPLY

FIG. 5

