SPECIFICATIONS

FOR APPROVAL

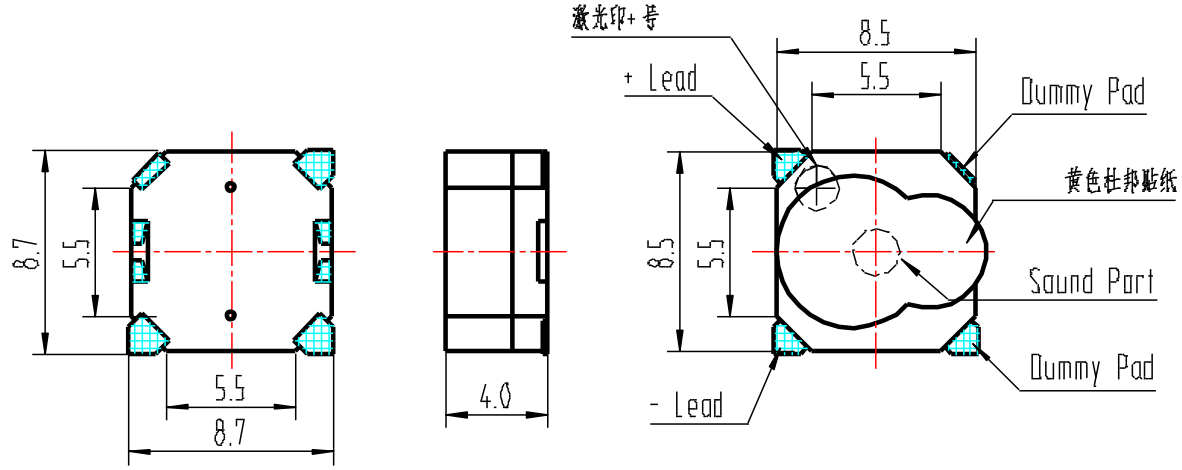
SMD MAGNETIC BUZZER

	MODEL NO.:	**DSTB-858540S-27-16**
	CUSTOMER PART NO.:	

SIGNATURE AND COMPANY CHOP FOR APPROVAL:	
APPROVAL DATE:	

NO.	DATE	REVISION RECORD		CAUSE OF REVISION	SIGN. REV.
		BEFORE REVISION	AFTER REVISION		
1	22/3/2021		Added carrier tape drawing	Customer request	
2					
3					

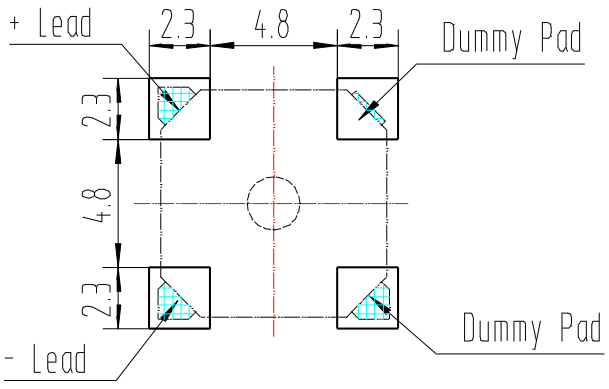
1. DIMENSION



*Unit: mm; Tolerance: ±0.3mm Except Specified

*Housing Material: Black LCP

*Terminal plate: 3 soldering pads, tin Plating Brass

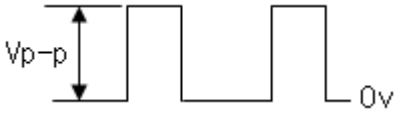


2. SCOPE

This Specification is applied to the dynamic magnet transducer assembly which is used as alert in portable products.

3. ELECTRICAL SPECIFICATIONS

All data at 25˚C, Humidity 45% ~ 85% unless otherwise specified.

ITEMS	SPECIFICATIONS	CONDITIONS
RATED VOLTAGE	**3.6 Vo-p**	
OPERATING VOLTAGE	**2.5V ~ 4.5Vp-p**	
RATED CURRENT	**MAX 100mA**	
COIL RESISTANCE	**16 ohm ± 3**	
SOUND PRESSURE LEVEL (AT 10cm)	**Min 85 dBA**	*** f=2,700Hz, Vp-p=3.6Vo-p** ***1/2 DUTY SQUARE WAVE**
RESONANT FREQUENCY	**2,700 Hz**	
OPERATING TEMP.	**-20˚C ~ +70˚C**	
STORAGE TEMP.	**-40˚C ~ +85˚C**	

4. RELIABILITY

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

4.2 Ordinary Temperature Life Test

The part shall be subjected to 96 hours at 25±10℃. Input rated voltage Resonant frequency, 1/2 duty Square wave.

4.3 High Temperature Test

The part shall be capable of withstanding a storage temperature of +80℃ for 96 hours.

4.4 Low Temperature Test

The part shall be capable of withstanding a storage temperature of -30℃ for 96 hours.

4.5 Humidity Test

Temperature:+40℃±3℃ Relative Humidity:90%～95% Duration: 48 hours and expose to room temperature for 6 hours

4.6 Temperature Shock Test

Temperature:60℃ /1hour→ 25℃/3hours→-20℃/1hour→ 25℃/3hours (1cycle)
Total cycle: 10 cycles

4.7 Drop Test

Standard Packaging From 75cm(Drop on hard wood or board of 5cm thick, three sides, six plain.)

4.8 Vibration Test

Vibration:1000cycles /min. Amplitude:1.5mm, Duration: 1 hour in each 3 axes

4.9 Reflow Test

Use recommendable reflow soldering condition (as shown in 5.1)

(1) No abnormality should be found after reflow

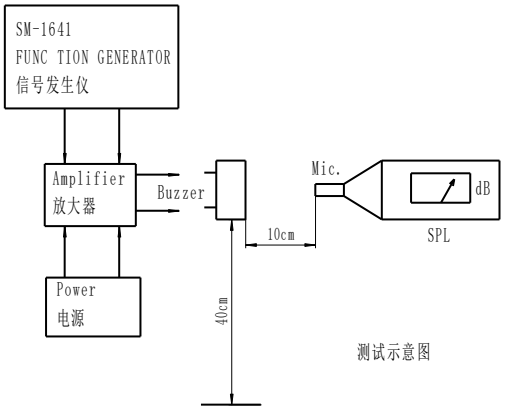
(2) Good soldering to meet soldering requirements

Note:

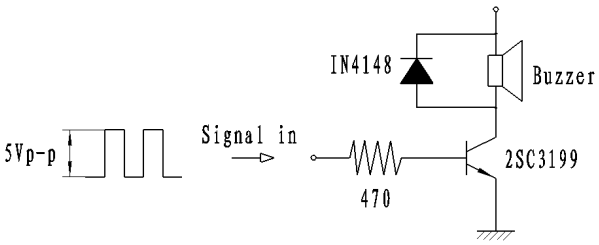
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enters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

5. ELECTRICAL CHARACTERISTICS MEASUREMENT

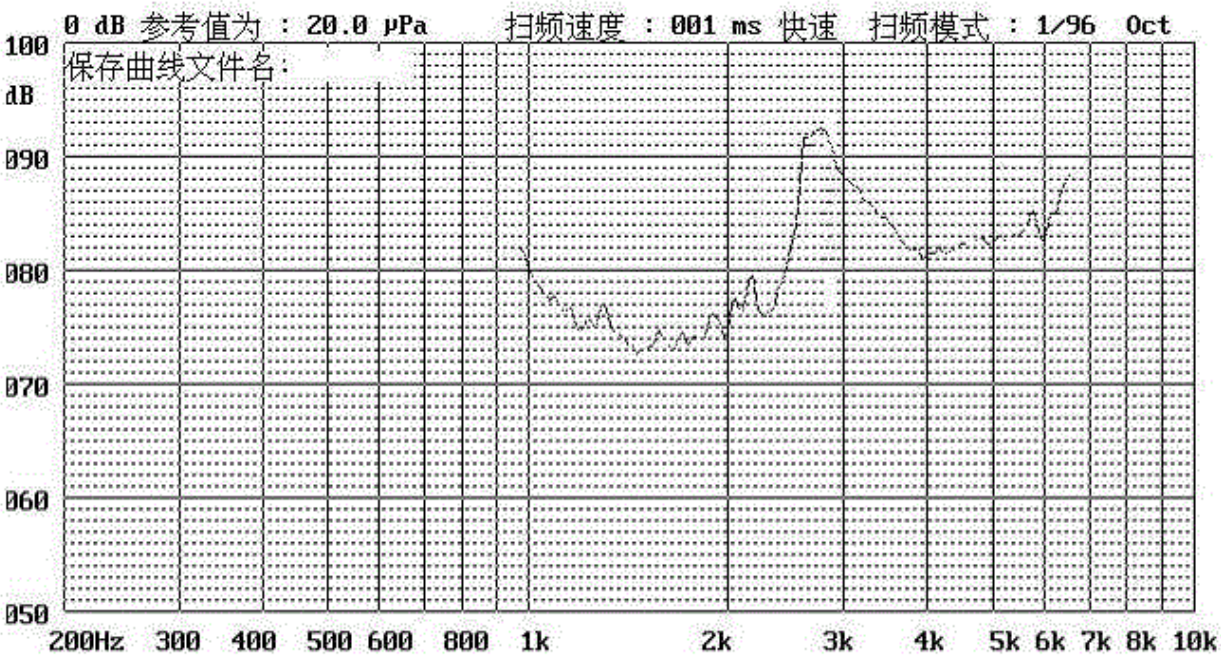
SETTING UP OF MEASURING SYSTEM



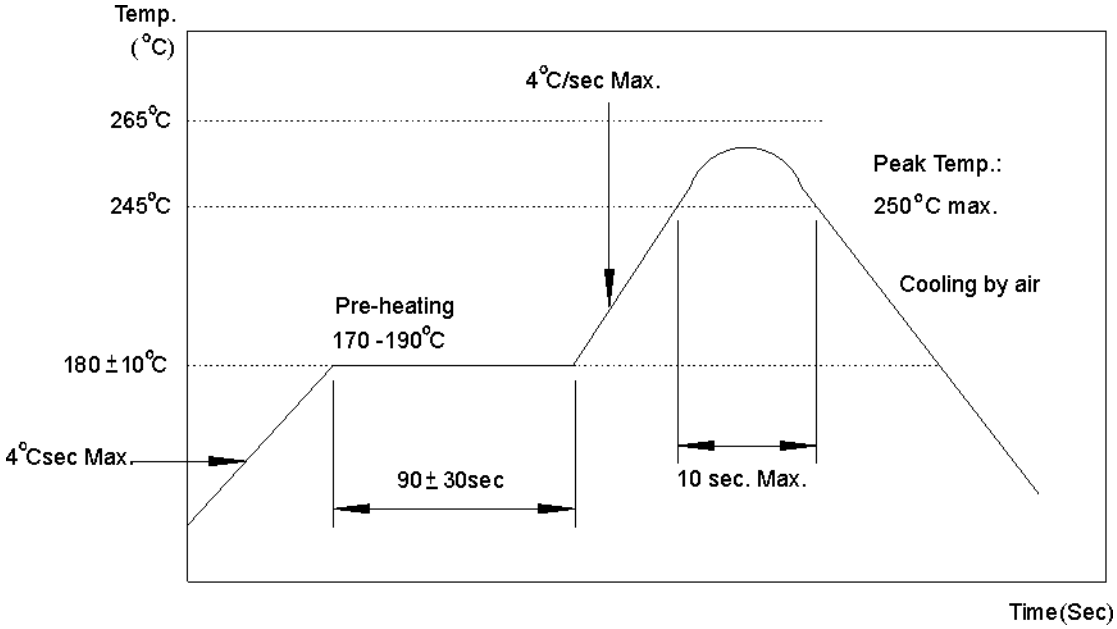
Recommended Driving Circuit



6. FREQUENCY RESPONSE CURVE



7. REFLOW CONDITION PROFILE



8. PACKING FORMAT