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	<i>MODEL NAME: SMT8504</i>			


SPECIFICATION FOR APPROVAL SMD ELECTRO-MAGNETIC TRANSDUCER

Model Name	SMT8504
Note	

CUSTOMER	
Customer name / Stamp / Sign / Date	DRAWN:
	CHECKED:
	APPROVED:

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E-mail: sales@fbelec.com

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SMT8504

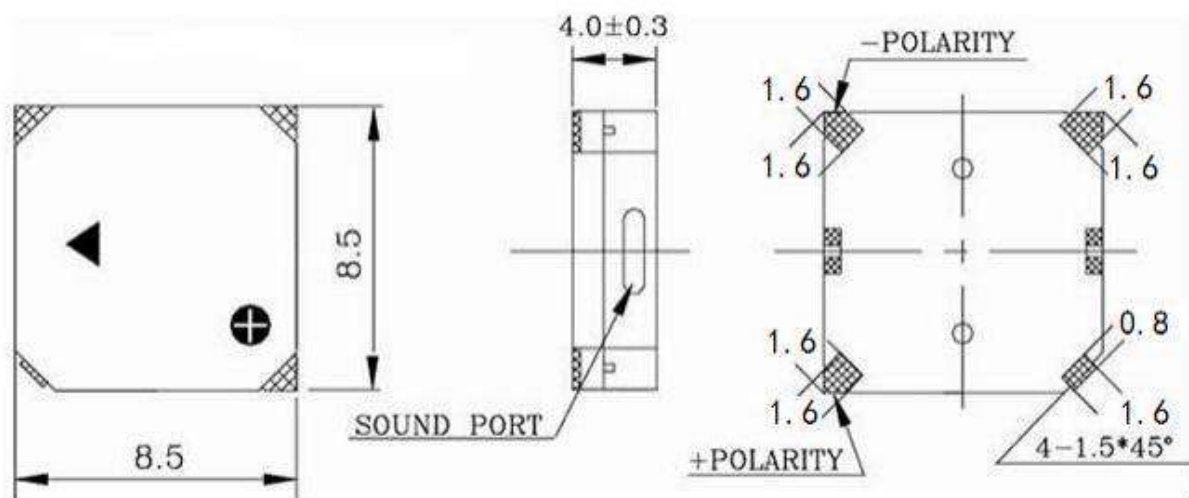
SMD ELECTRO-MAGNETIC TRANSDUCER

1	Model No.	SMT8504
2	Rated Voltage (V)	3.6
3	Operating Voltage (V)	2.5~4.5
4	Coil Resistance (Ω)	16±3
5	Resonant Frequency (Hz)	2700
6	*Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
7	*Current Consumption (mA/max)	100 at Rated Voltage
8	Operating Temperature (°C)	-20~+70
9	Storage Temperature (°C)	-30~+80
10	Weight (g)	0.5
11	Case material and colour	LCP / Black

*Applying rated voltage (Resonant frequency, 1/2 duty, Square wave)


DIENSIONS (UNIT: mm)

Tolerance: ±0.5mm Except Specified

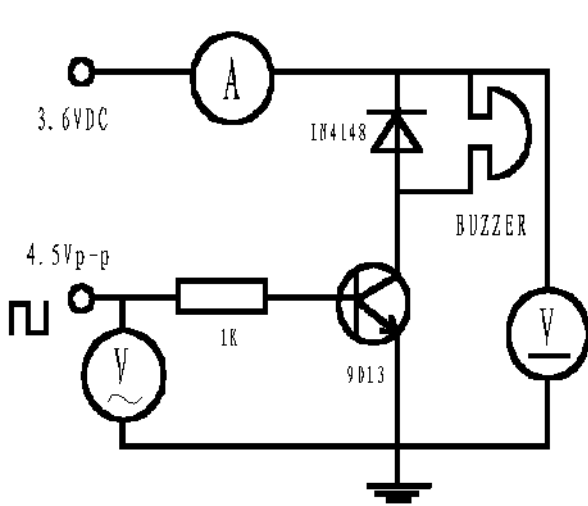


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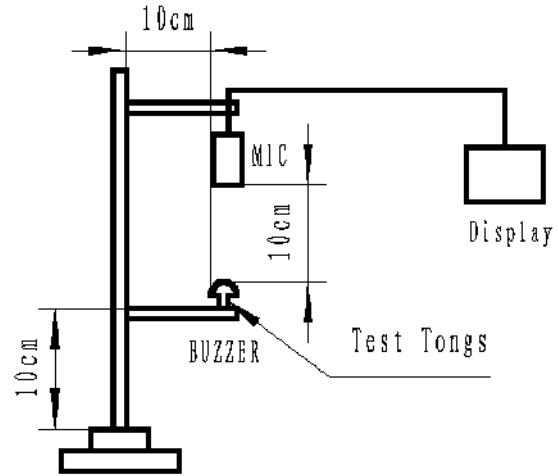
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TEST METHOD:

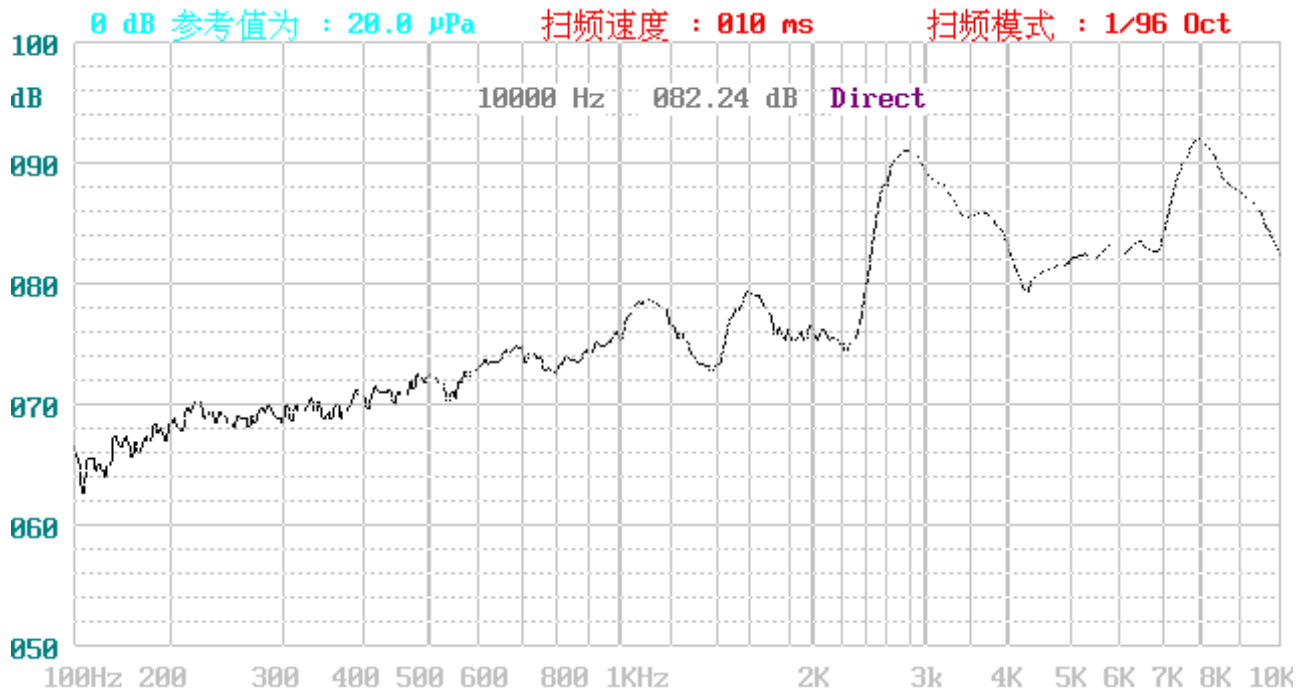


Test Circuit




Test Equipis


FREQUENCY RESPONSE:




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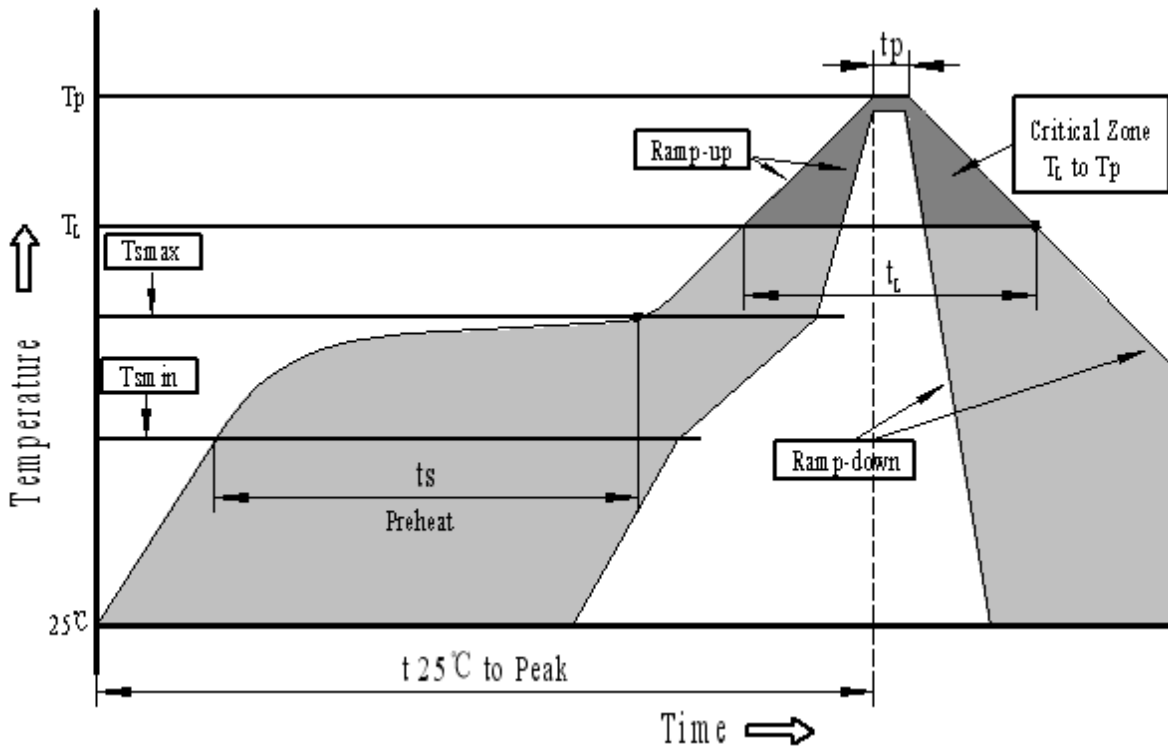
RELIABLY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST	
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80°C for 120 hours	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value ± 10 dB or more.	
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30°C for 120 hours		
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30 \pm 2°C, 30 minutes 20 \pm 5°C 15 minutes 80 \pm 2°C, 30 minutes 20 \pm 5°C 15 minutes		
4	Humidity Test	30 \pm 2°C, 90~95% RH, 120 hours		
5	Vibration Test	The part shall be subjected to a vibration cycle is 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.		
6	Shock	Sounder shall be measured after being applied shock (980m/s ²) for each three mutually perpendicular directions to each of 3 times by half sine wave.		
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.		
8	Lift Test	At3.6Vo-p in room temperature continuously for 1000 hours.		
9	Lead pull	The part shall be pushed with a force of 9.8N for 10 \pm 1 seconds behind the part. 		After the test part shall meet specifications without any degradation in appearance and performance.
10	Recommended temp. Profile for Reflow Oven	Shown in Fig.1		

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Recommended Temp. Profile for Reflow Oven (Fig.1)



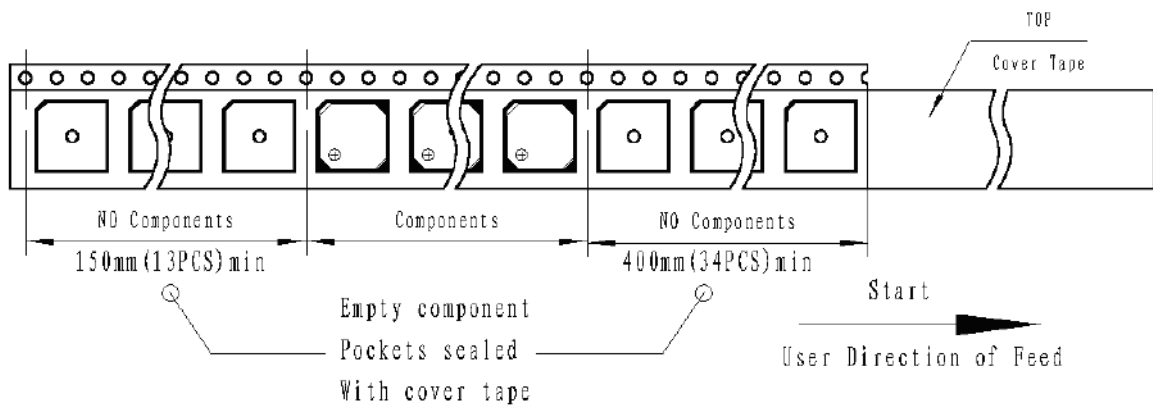
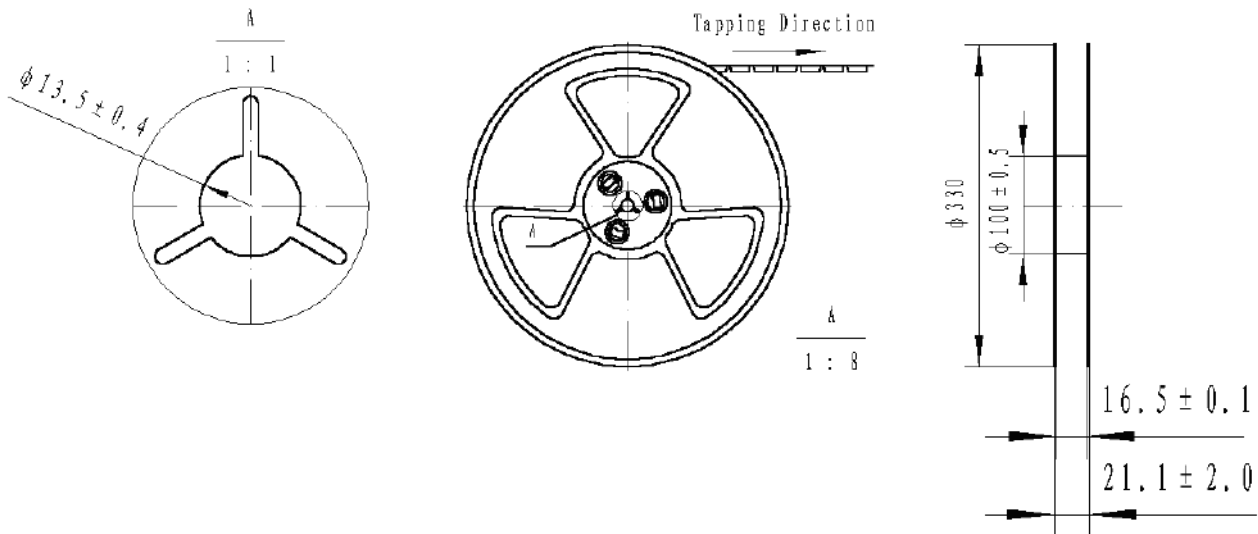
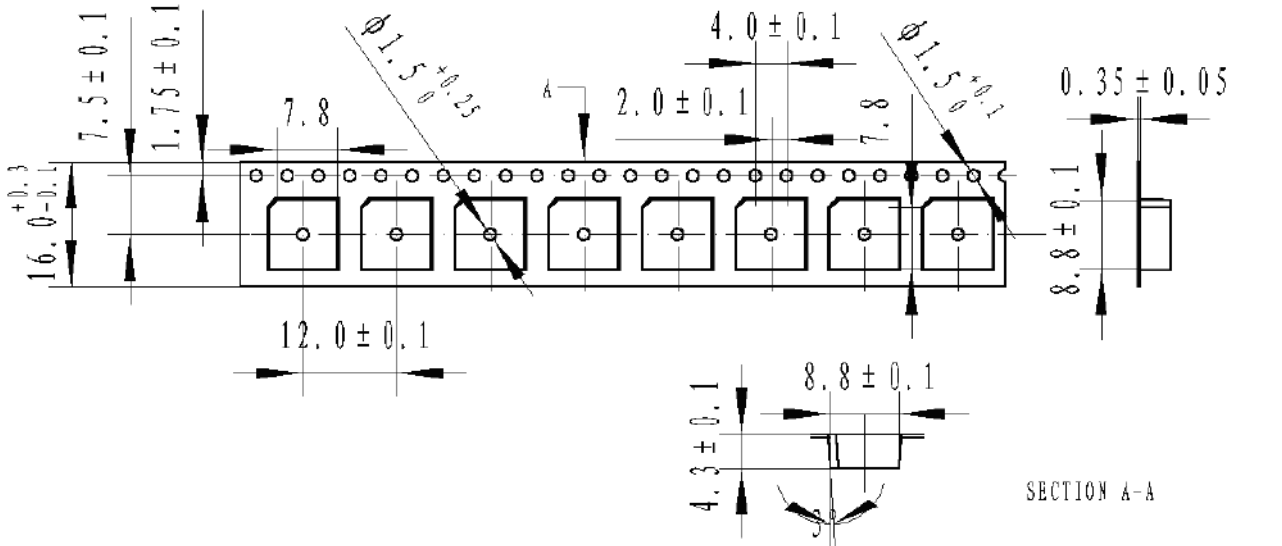
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)	60~150 seconds
Peak temperature(T_p)	250°C+0/-5°C
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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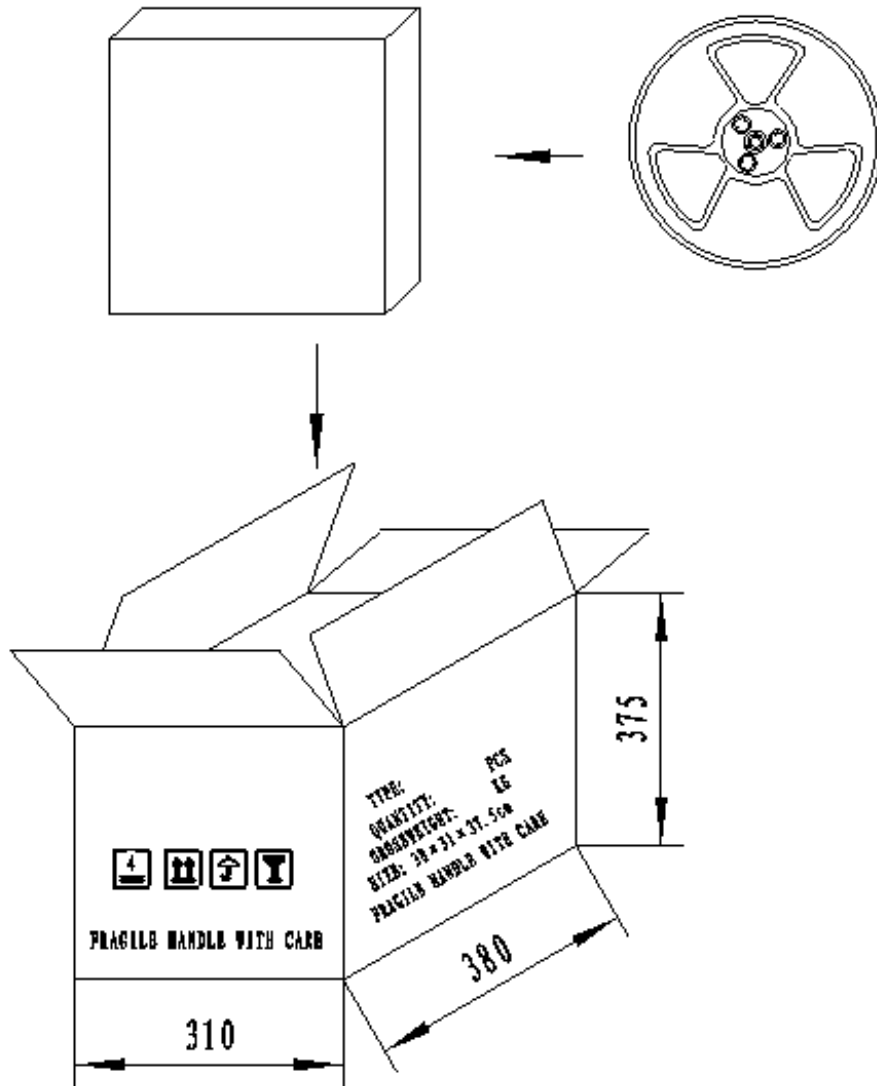
PACKING:



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PACKING:



NOTES:

- 1.1000 PCS per box
- 2.Total 10 boxes per carton
- 3.Total 10000 PCS carton

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