Elektrotechnik Karl-Heinz Mauz GmbH

SMD-Signalgeber *(ohne Ansteuerung)* ***SMD-P12A03*** ***Art.-Nr.: 220075***

Specification :

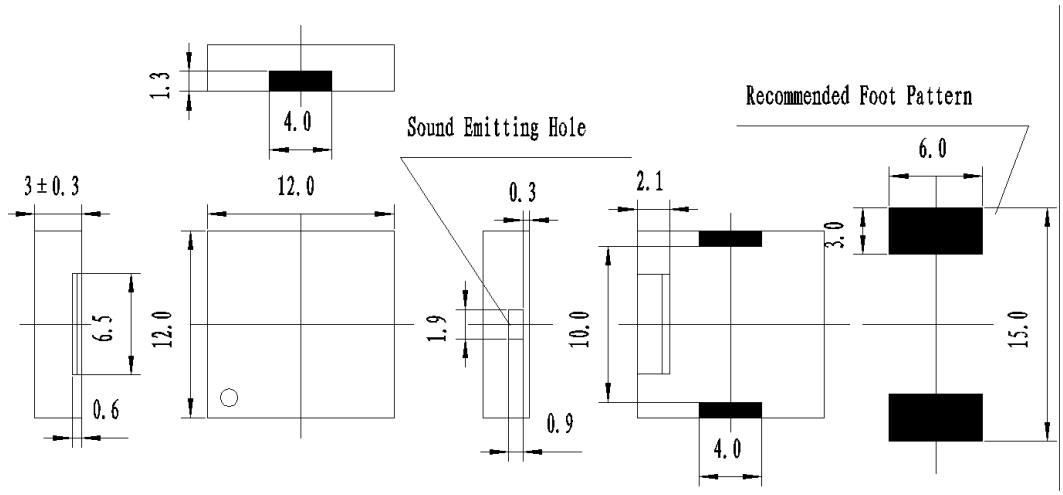
1	Rated Voltage (Vp-p)	3
2	Resonance Frequency (KHz)	4.0±0.5
3	Max Input Voltage (Vp-p)	25
4	Capacitance at 120Hz (pF)	15000±30%
5	*Sound Output at 10cm (dB)	≥75
6	Operating Temperature (℃)	-40～+85
7	Storage Temperature (℃)	-40～+85
8	*Rated Current (mA)	≤3
9	*Typical S.P.L. at 10cm (dB)	77-82
10	Housing Material	LCP
11	RoHS	Yes

* Applying rated voltage (Resonant frequency, Square wave)

Dimensions :

(Unit: mm)

Tolerance: ±0.5mm Except Specified



Version 1 / 10/2021

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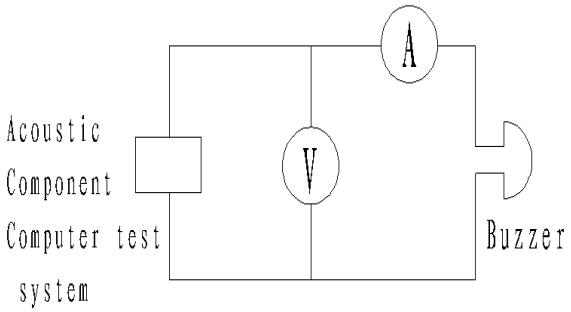
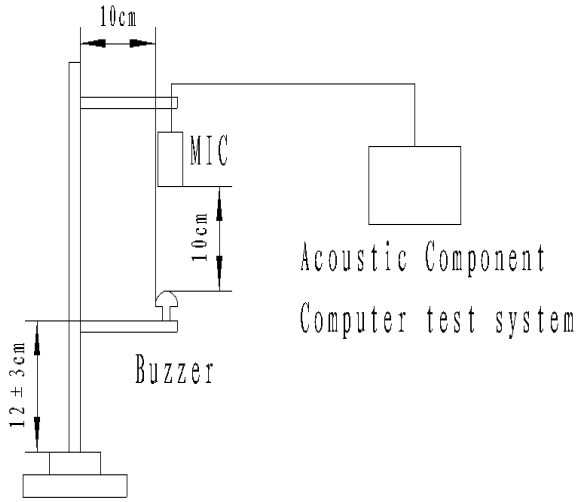
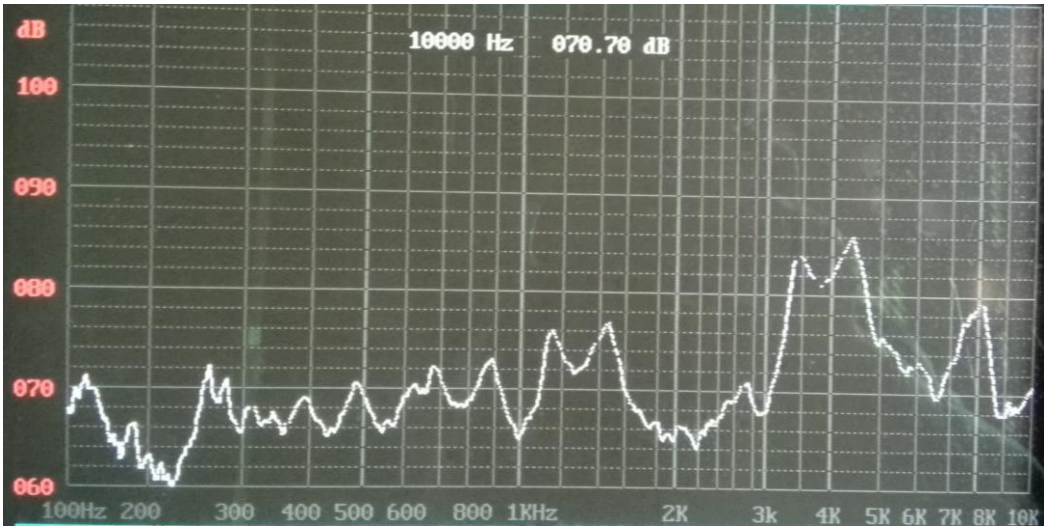
Testing Method :





Frequency Response Curve :



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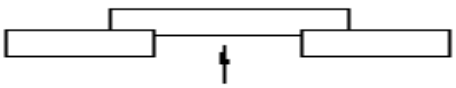
Reliability Test :

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80℃ for 120 hours	*All specifications must be satisfied after the test.*
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30℃ for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30±2℃, 30 minutes 20±5℃ 15 minutes 80±2℃, 30 minutes 20±5℃ 15 minutes	
4	Humidity Test	40±2℃, 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/s²) 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	Lead pull	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
9	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	

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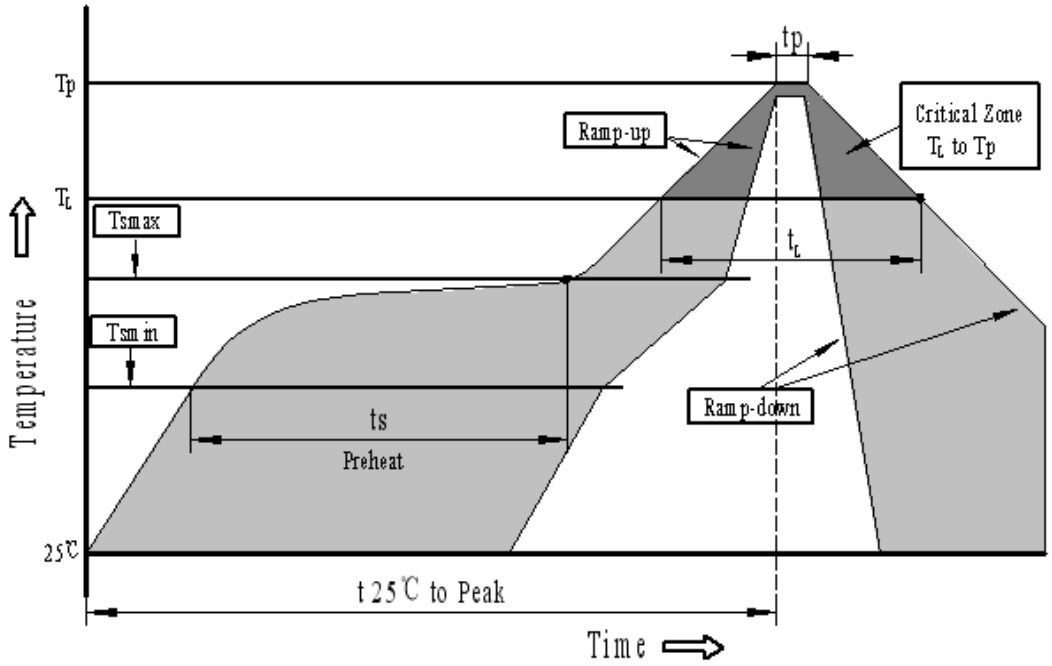
Recommended Temp.Profile for Reflow Oven (Fig.1):



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to Tp)	3℃/second max.
Preheat	
-Temperature Min.(Ts_{min})	150℃
-Temperature Min.(Ts_{max})	200℃
-Temperature Min.(ts)	60～180 seconds
Ts_{max} to T_L	
-Ramp-up Rate	3℃/second max.
Time maintained above:	
- Temperature(T_L)	217℃
-Time(T_L)	60～150 seconds
Peak temperature(Tp)	245℃+0/-5℃
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

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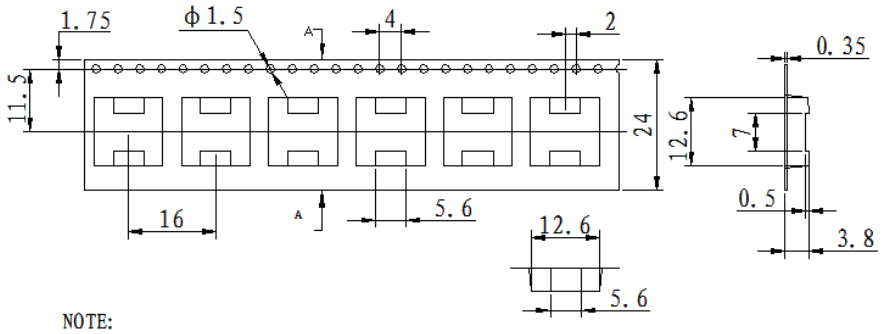
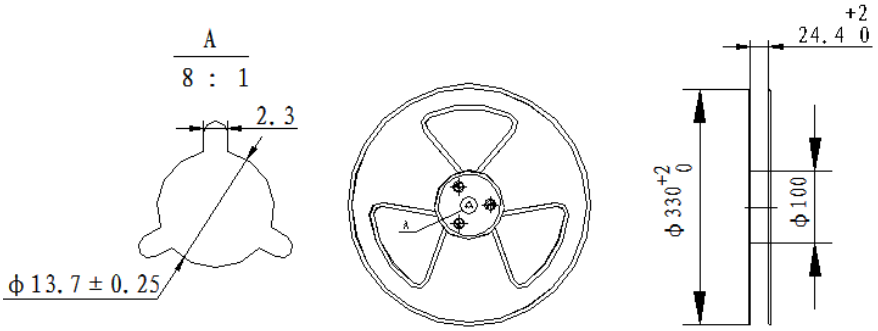
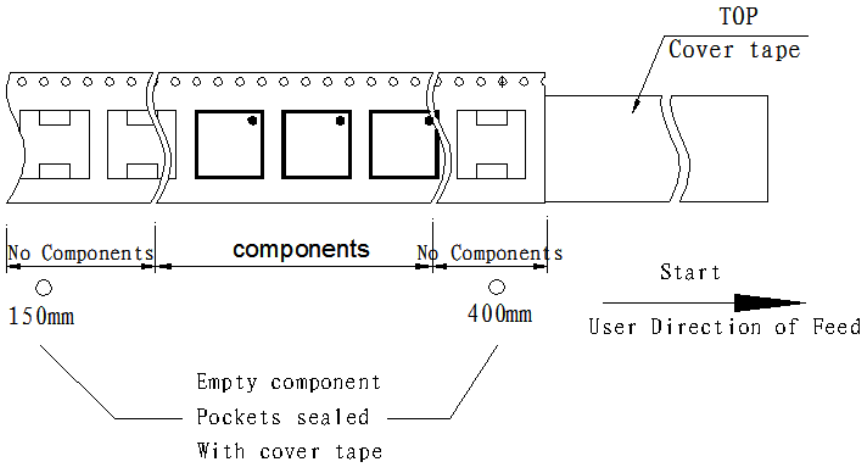
Packing :



NOTE:

1. 10 sprocket hole pitch cumulative tolerance +/−0.2mm.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: 0.35+/−0.05mm.
4. Component loaded per 13"reel: 1000pcs.





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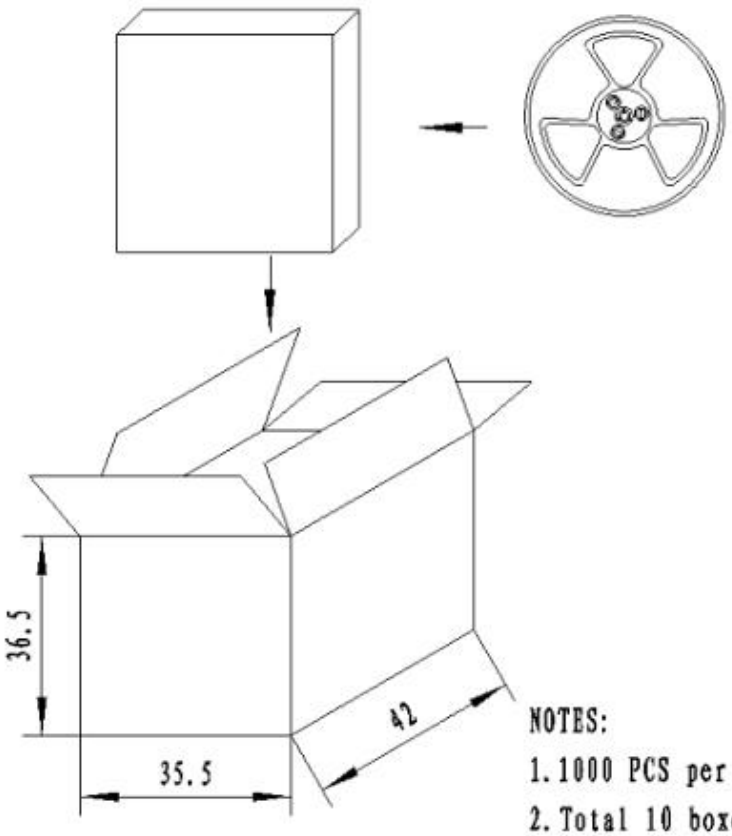

NOTES:
1. 1000 PCS per box
2. Total 10 boxes per carton
3. Total 10000 PCS carton
4. volume: 42 × 35.5 × 36.5cm

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