DIGISOUND®

F-B-P1405ISB

Electrical and Acoustical Parameter

Rated voltage (VDCp)	5.0
Operating voltage (VDC)	1.0 – 16.0
Rated current (mA)*	max. 10.0
Reverse Current(mA)	max. 100
Sound pressure level (dBA/10cm)*	min. 80
Resonance Frequency (Hz±500)	4000
Remark:	*Value applying rated voltage (DC)

Mechanical, Environmental Parameter

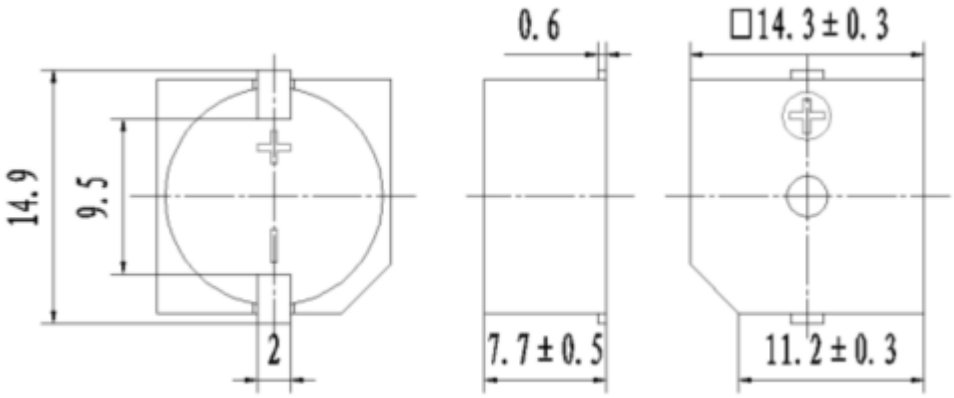
Contact / Wire	SMD
Operating temperature (°C)	-40 to +85
Storage temperature (°C)	-40 to +90
Material housing	PPS
Color housing	Black
Component weight (g)	2.3
Remark:	

Approval

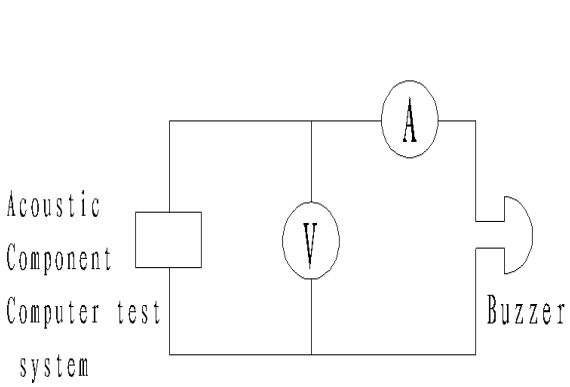
RoHs	☑
UL	☐

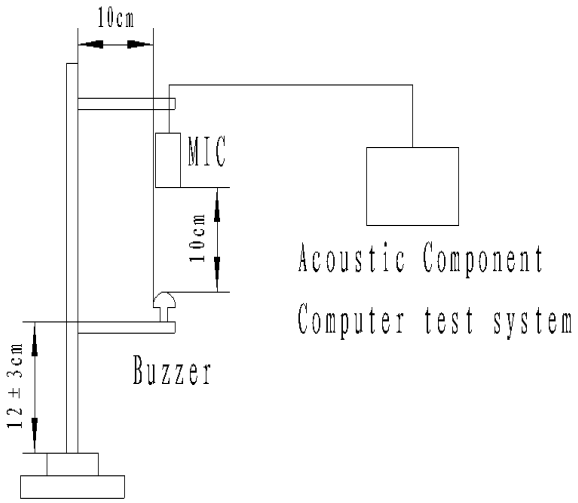
Drawing of Component

Unit:mm

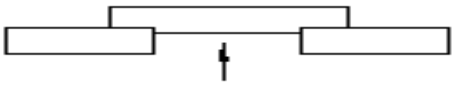


Test Method

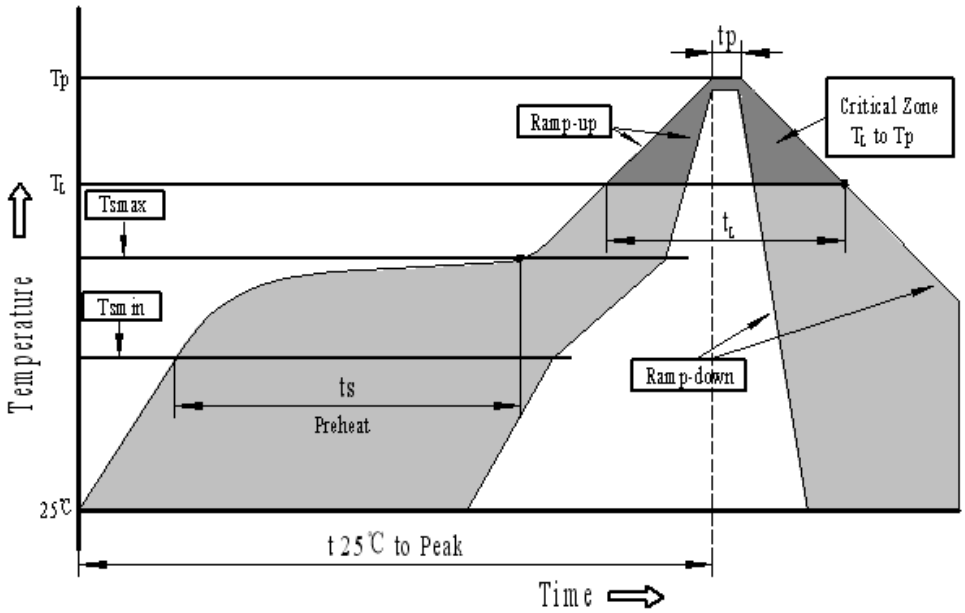




Reliability Test

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +90℃ 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 -40℃ for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -40±2℃, 30 minutes 40±5℃ 15 minutes 90±2℃, 30 minutes 40±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	

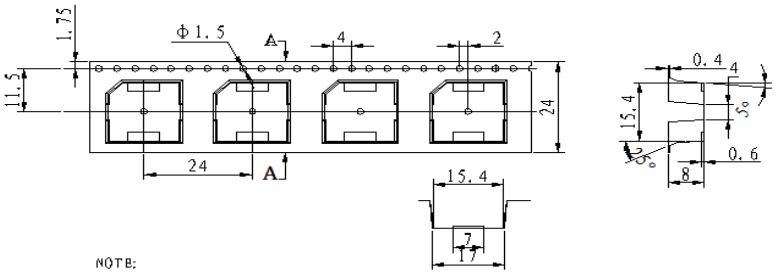
Recommended Temp. Profile for Reflow Oven



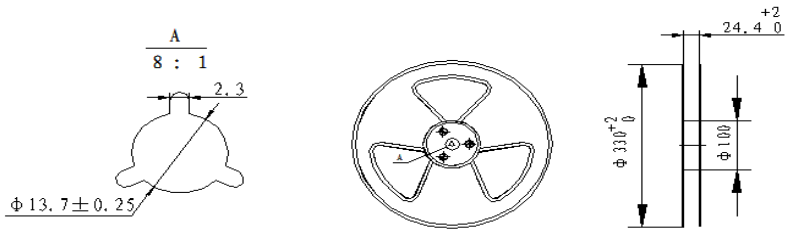
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to Tp)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(ts)	60～180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)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

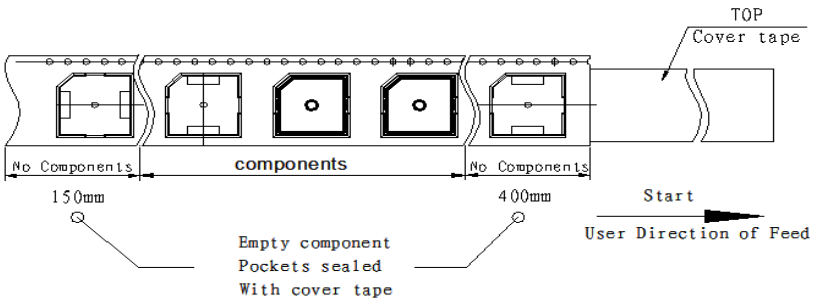
Information: hand soldering is not possible

Packaging Information



NOTE:
1. 10 sprocket hole pitch cumulative tolerance +/-0.2mm.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: 0.4+/-0.05mm.
4. Component loaded per 13"reel: 350pcs.





Revision Table

Index Nr.	Date Reason - Procedure Change description	Drawing Date	implementation LS-Nr.: Date	Comments

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