

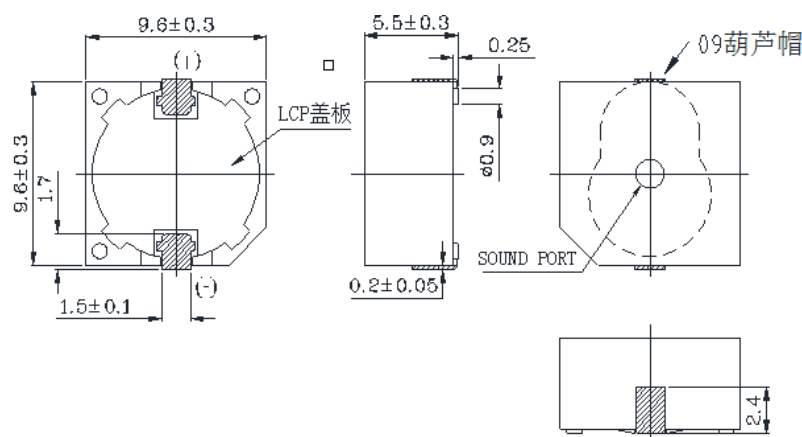
SMD-Signalgeber (mit Ansteuerung) SMD-10D05 Art.-Nr.: 220026

Specification :

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700±300	square wave
2	Operating Voltage	Vdc	3~7	
3	Rated Voltage	Vdc	5	
4	Current Consumption	mA	MAX.30	at 5Vdc
5	Sound Pressure Level	dB	MIN. 80	at 10cm 5Vdc
6	Operating Temperature	°C	-30 ~ +70	
7	Storage Temperature	°C	-40 ~ +85	
8	Dimension	mm	L9.6×W9.6×H5.5	See appearance drawing
9	Weight (MAX)	gram	2.0	
10	Housing Material		LCP(Black)	
11	Leading Pin		Pin type(Plating Au)	See appearance drawing
12	Environmental Protection Regulation		RoHS	

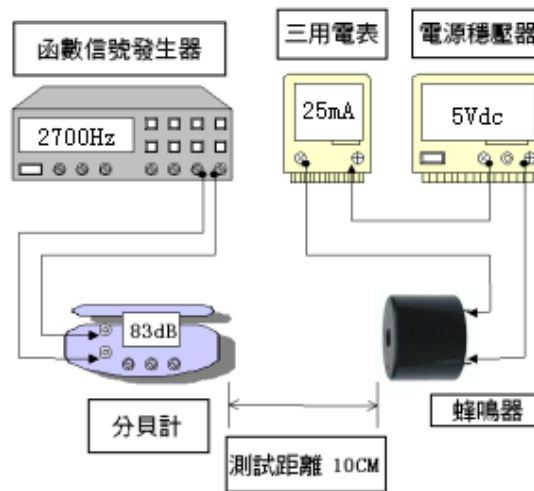
Dimensions :

(Unit : mm)



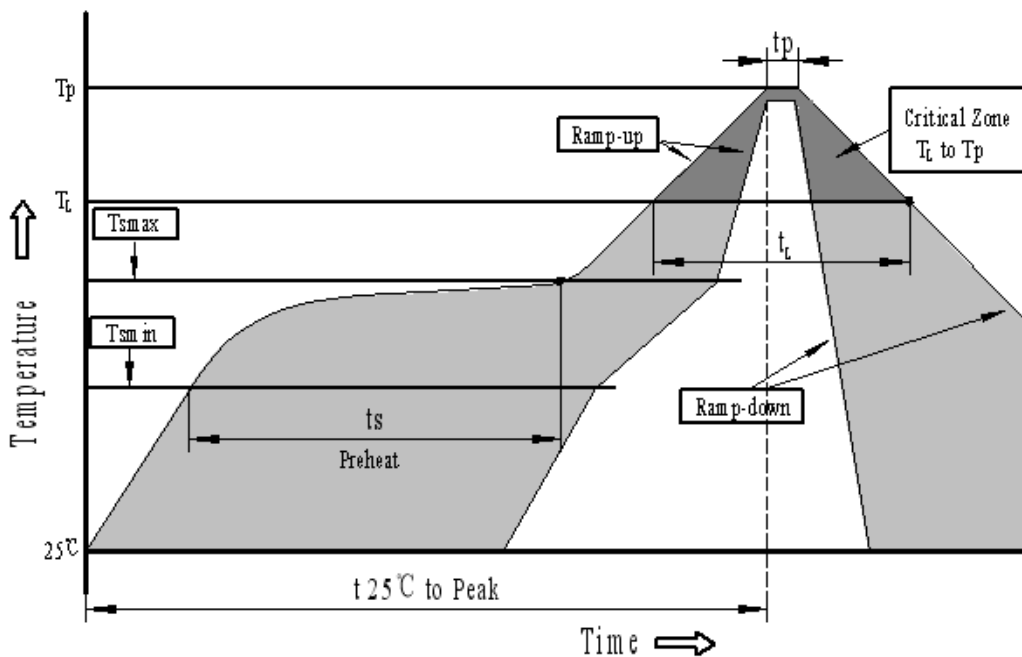
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Recommend Driving Circuit :



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Recommended Temp. Profile for Reflow oven :



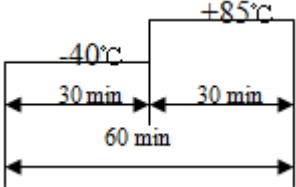
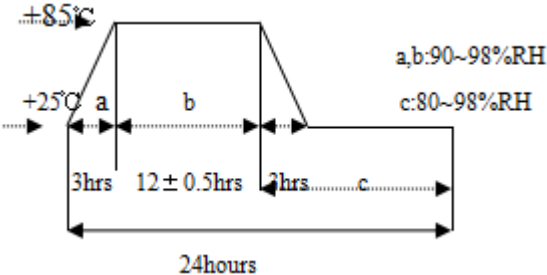
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)	60~150 seconds
Peak temperature(T_p)	245°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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Mechanical Characteristics :

NO	Item	Test Condition	Evaluation standard
1	Solder ability	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of 250±5°C for 3±0.5 seconds.	90%min stripped wires shall be wet with solder.(except the edge of terminal)
2	Soldering Heat Resistance	The product is followed the reflow temperature curve to test its reflow thermostability.	No interference in operation.
3	Terminal Strength Pulling	The force 60 seconds of 9.8N is applied to each terminal in axial direction.	No damage and cutting off
4	Vibration	Buzzer shall be measured after being applied vibration of 1.52mm with 10to55to10Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	The value of oscillation frequency and current consumption should be in±10%compared with initial ones. The SPL should be in ±10dB compared with initial one.
5	Drop test	Dropped naturally from 75cm height onto the surface of 40mm thick wooden board of 3 directions for 3times.	

Environment Test :

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85°C for 96 hours .	Being placed for 4 hours at 25°C, buzzer shall be measured. The SPL should be in ±10dB compared with initial one. The value of oscillation frequency and current consumption should be in ±10% compared with initial one.
2	Low temp. test	After being placed in a chamber at -40°C for 96 hours.	
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of: 	
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of: 	

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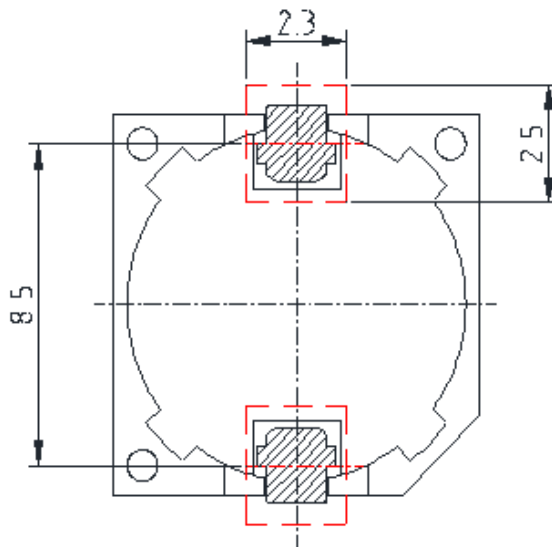
Reliability Test :

NO	Item	Test condition	Evaluation standard
1	Operating life test	1. Ordinary temperature The part shall be subjected to 96 hours at room temperature (+25±10°C) 2. High temperature The part shall be subjected to 72 hours at +60°C with 5V applied. 3. Low temperature The part shall be subjected to 72 hours at -20°C with 5V applied. 4. High and Low Voltage Applying 3 voltage and 7 voltage, available time 24 hours each.	Being placed for 4 hours at 25°C, buzzer shall be measured. The SPL should be in ±10dB compared with initial one. The value of oscillation frequency and current consumption should be in ±10% compared with initial one.

Test Condition :

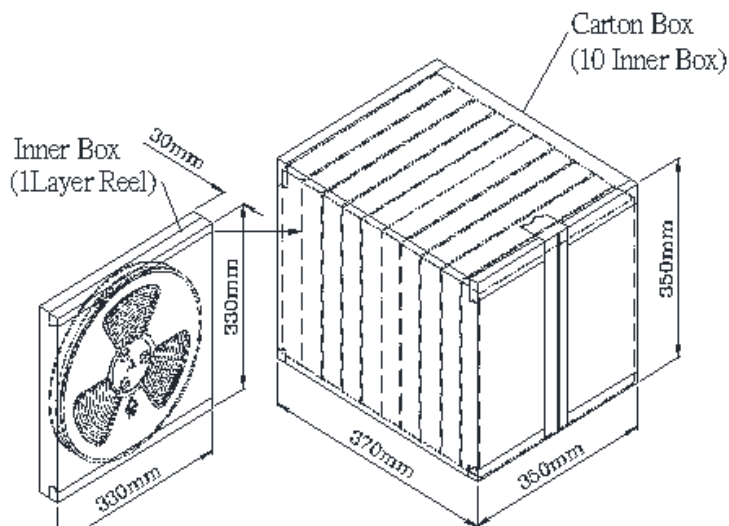
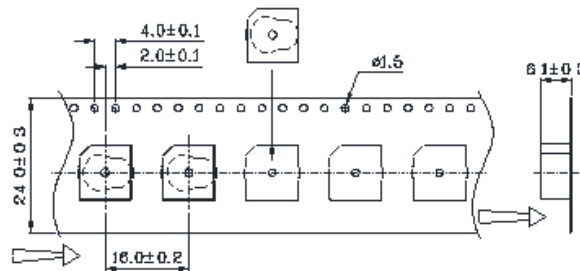
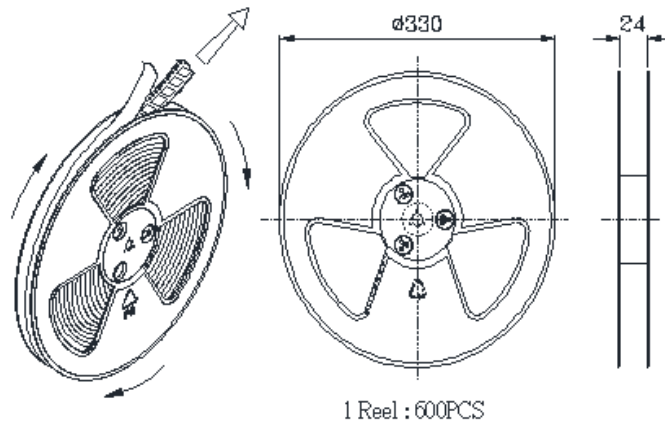
Standard Test Condition : a) Temperature : +5 ~ +35 °C b) Humidity : 45-85%
 c) Pressure : 860-1060mbar
 Judgment Test Condition: a) Temperature : +25±2°C b) Humidity : 60-70%
 c) Pressure : 860-1060mbar

Recommended Land Pattern :



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Packing Standard :



Inner Box	330mmx330mmx30mm	1x600PCS=600PCS
Carton Box	350mmx350mmx370mm	10x600PCS=6,000PCS

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Note Cautions :

- a. Please pay attention in welding process, don't let soldering flux invasion into the sound chamber , otherwise flux can cause defect conduction.
- b. Use should handle with care, avoiding direct pressure contact, or inadvertently falling down, to prevent the occurrence of fault, or the generation characteristics of abnormal movements.
- c. This product is not dustproof, not waterproof, not resistance to dropping.

J. NOTICE ON PRODUCT STORAGE

- a. Please store the products in room where the temperature / humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions :

Temperature : -10 to +40 (degree C)

Humidity : 15 to 85% R.H.

- b. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 6 months after delivery.If you store the products for a long time (more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty. Please confirm solder-ability and characteristics for the products regularly.
- c. Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Jul. 7, 2018	Initial condition	SMD-10D05	V2.0