

Data Sheet SMT-0827-S-2-R

Features:

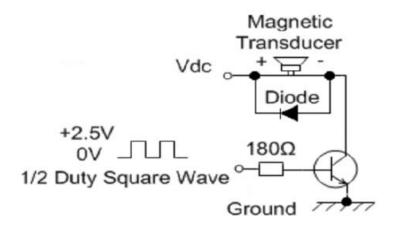
- 8.5x8.5mm SMT magnetic transducer
- 3.6V0-p, 2.7kHz

Specifications

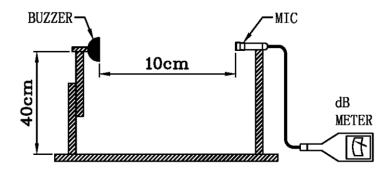
Parameters	Values	Units	
Rated Voltage	3.6	V0-p	
Operating Voltage Range	2.5 ~ 4.5	V0-p	
Current Draw at Rated Voltage*	90	mA	
Coil Resistance	15 ± 3	Ohms	
Minimum SPL @ 10cm*	92	dBA	
Resonant Frequency	2,700 ± 500	Hz	
Housing Material	LCP	-	
Terminal Material	Tin-Plated Phosphor Bronze	-	
Weight	0.42	Grams	
Acceptable Soldering Methods	Hand Solder @ 350C for 5s, Reflow Solder	See following pages for solder information	
Environmental Compliances	RoHS/REACH	-	
Moisture Sensitivity Level (MSL)	NA	-	
Operating Temperature	-30 ∼ +70	°C	
Storage Temperature	-40 ∼ +85	°C	

^{*}At rated voltage with 50% duty cycle 2.7kHz positive biased square-wave

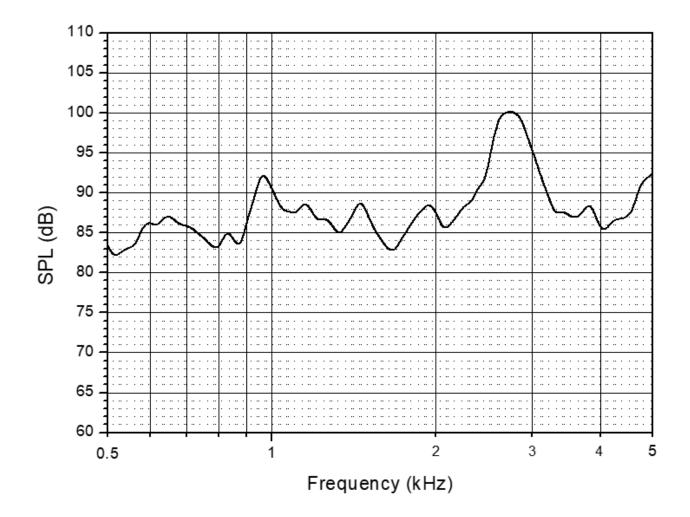
Recommended Drive Circuit (Transistor should have a Vce \leq 0.15V and hFE \geq 200)



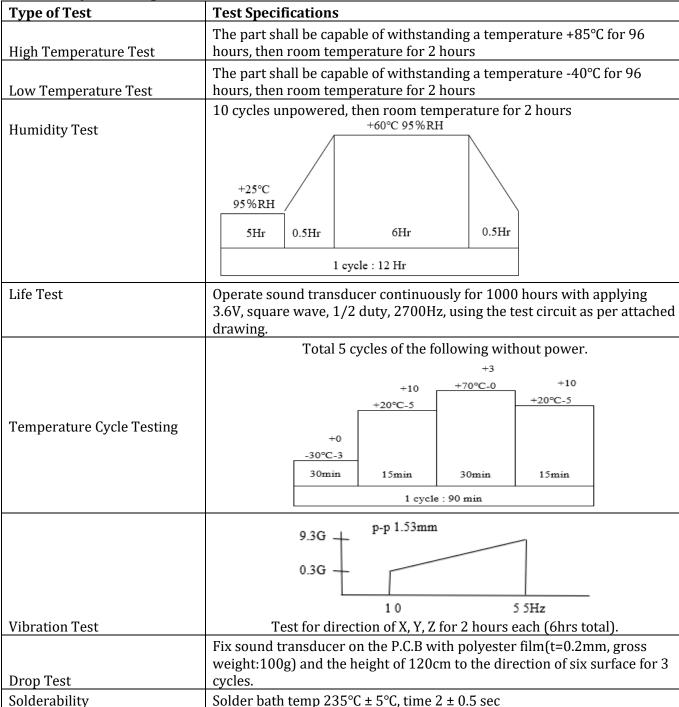
Test Condition (3.6V0-p, 2.7kHz)



Typical Frequency Response (at 10cm)

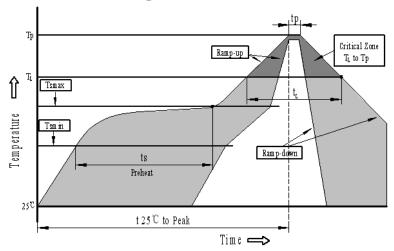


Reliability Testing



After each test, part shall meet specifications.

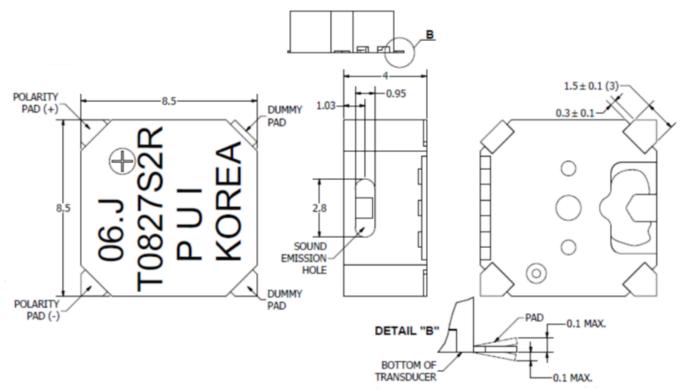
Recommended Reflow Soldering Procedure



Profile Feature	Pb-Free Assembly		
Average ramp-up rate (T _L to Tp)	3°C/second max.		
Preheat			
-Temperature Min. (Ts _{min})	150°C		
-Temperature Min. (Ts _{max})	200°C		
-Temperature Min. (Ts)	60∼180 seconds		
Ts _{max} to T _L			
-Ramp-up Rate	3°C/second max.		
Reflow			
- Temperature (T _L)	217°C		
-Time (T _L)	60~150 seconds		
Peak temperature (Tp)	260°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.		

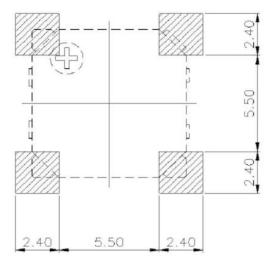
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Dimensions



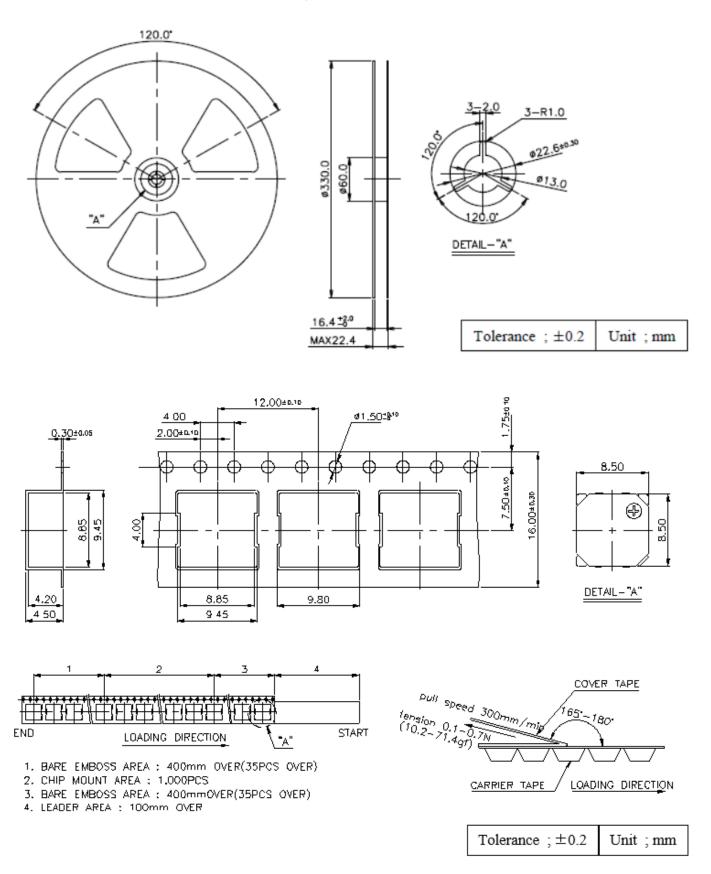
Tolerance ±0.2mm

Land Pattern

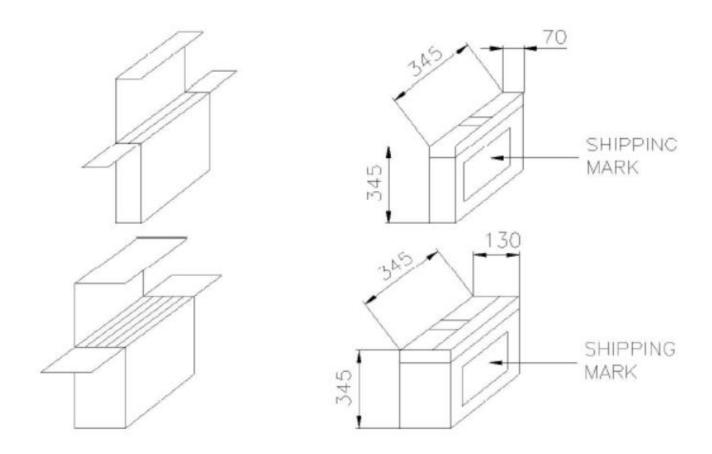


Packaging

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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	4/1/2005
A	Added ROHS Compliance Note	8/10/2005
В	Revised to 3D Template	4/27/2010
С	Revised SPL Value	10/28/2011

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdraw without notice.
- 3. This part is ROHS 2015/863/EU Compliant.