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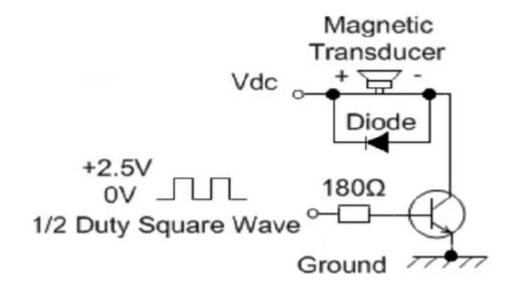
PUI Audio introduces the **SMT-0340-T-R**, the smallest surface mount transducer ever created! This tiny device is less than 1/6th the size of a dime and is perfect for generating audible notifications on wearables and other small electronics.

Specifications

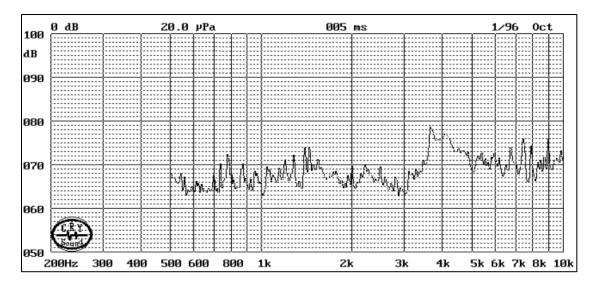
Parameters	Values	Units
Rated Voltage	3	V0-p
Operating Voltage Range	2~4	V0-p
Current Draw at Rated Voltage*	≤120	mA
Coil Resistance	12 ±3	Ohms
Minimum SPL @ 5cm*	72	dBA
Resonant Frequency	4,000 ±500	Hz
Housing Material	LCP	-
Terminal Material	Tin-Plated Brass	-
Weight	0.1	Grams
Acceptable Soldering Methods	Hand Solder @ 350C for 5s, Reflow Solder	See page 3 for reflow solder information
Environmental Compliances	RoHS/REACH	-
Operating Temperature	-20 ~ +70	°C
Storage Temperature	-30 ~ +80	°C

*At rated voltage with 50% duty cycle 4 kHz positive biased square-wave

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



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Typical Frequency Response (3V input measured at 5cm)

Reliability Testing

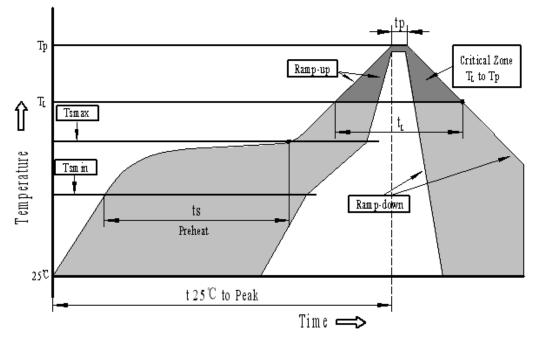
Type of Test	Test Specifications	
High Temperature Test	The part shall be capable of withstanding a storage temperature is +80°C for 96 hours	
Low Temperature Test	The part shall be capable of withstanding a storage temperature is -30°C for 96 hours	
Humidity Test	$40\pm2^{\circ}$ C, 90 \sim 95% RH, 96 hours, then allowed to rest at room temperature for two hours	
	Total 5 cycles of the following	
Temperature Cycle Testing	$+70^{\circ}C$ +25^{\circ}C -20^{\circ}C 0.5hr 0.5 0.25 0.5 0.5 0.5 0.25 3hours	
	The part shall be subjected to a vibration cycle that is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3g).	
Vibration Test	The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
Drop Test	Drop from a height of 75cm onto 4 cm thick wood board six times.	

After each test, part shall meet specifications with an SPL variance of no more than ±10 dB

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Recommended Reflow Soldering Procedure

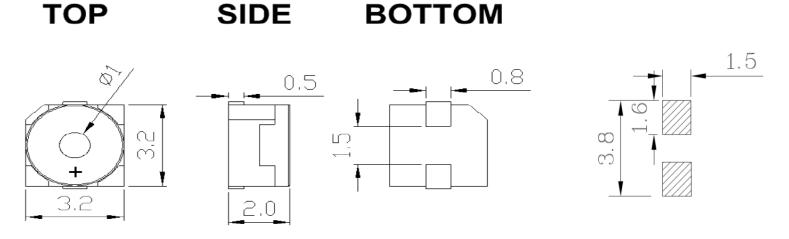


Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to Tp)	3°C/second max.
Preheat	1
-Temperature Min. (Ts _{min})	150°C
-Temperature Min. (Ts _{max})	200°C
-Temperature Min. (Ts)	60 ~ 180 seconds
Ts _{max} to T _L	
-Ramp-up Rate	3°C/second max.
Reflow	
- Temperature (TL)	217°C
-Time (TL)	60 ~ 150 seconds
Peak temperature (Tp)	250°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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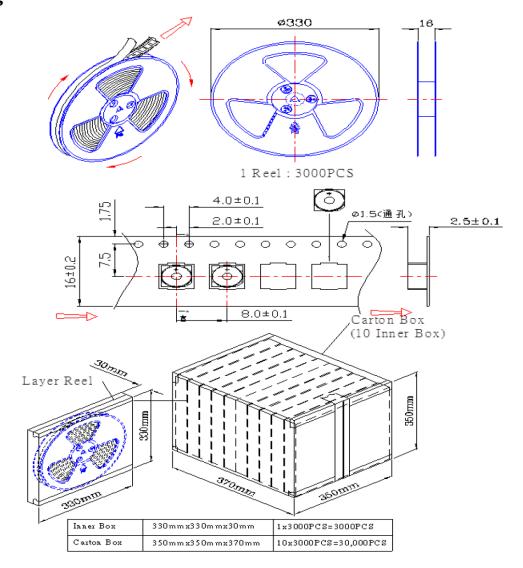
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Dimensions and Suggested Land Pattern*



*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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