

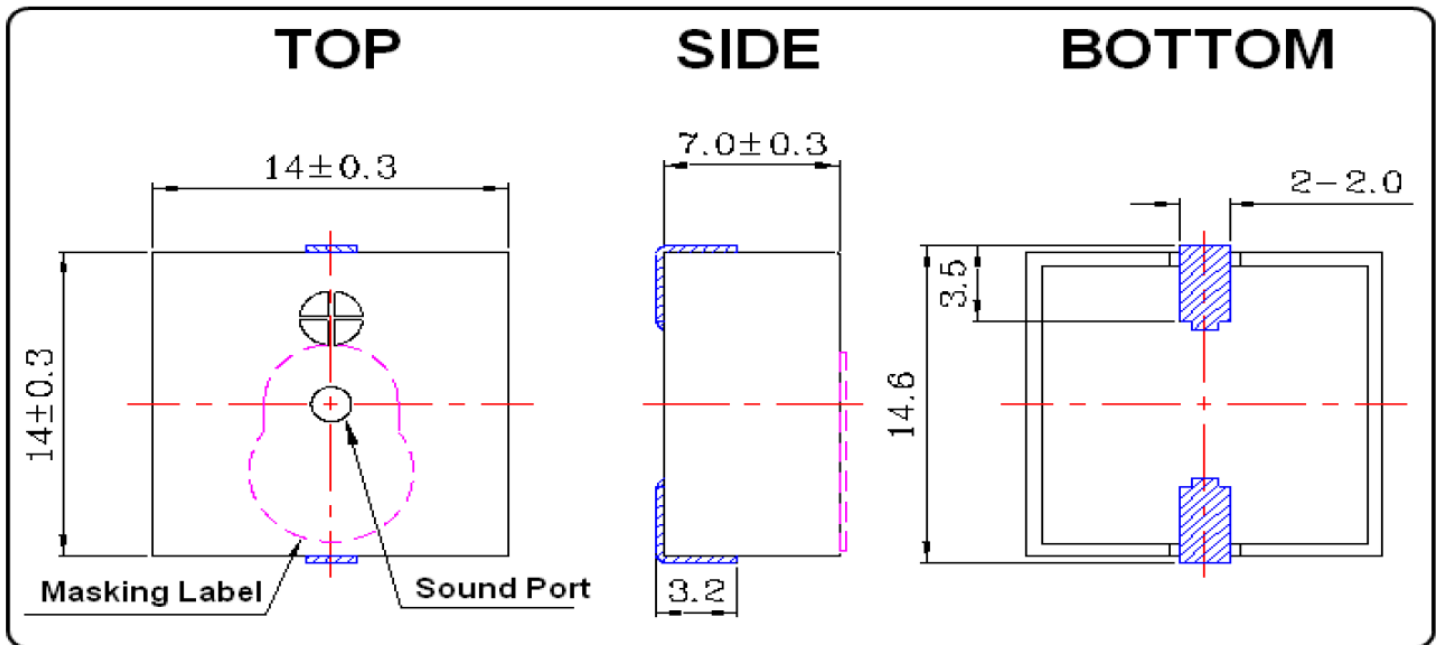
**SCOPE:** This specification applies to TRSIP-1412

**1. SPECIFICATIONS**

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	85	dBA
RATED VOLTAGE	12	Vdc
OPERATING VOLTAGE	4 - 16	Vdc
RESONANCE FREQUENCY	4,000 ± 500	Hz
*MAX RATED CURRENT	10	mA
tone	Continuous	-
OPERATING TEMPERATURE	-20 to +70	°C
STORAGE TEMPERATURE	-30 to +80	°C
HOUSING MATERIAL	LCP (Black)	-
TERMINAL MATERIAL	Gold plated Brass	-
WEIGHT	2.0	g

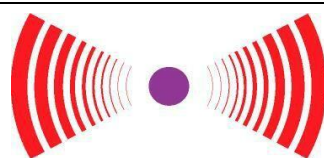
\*Value applying rated voltage

**2. DIMENSIONS (unit in mm)**



Tolerance: ±0.5mm except specified

Transducers USA  
Confidential and Proprietary



**Transducers USA**  
1400 Howard Street  
Elk Grove, IL 60007  
Toll Free: 888-921-6400 FAX: 847-956-1950  
[www.tusainc.com](http://www.tusainc.com) info@tusainc.com

All dimensions are in MM unless otherwise specified

Drawing Number:

TRSIP-1412

**SMD Piezo Audio Transducer  
Internal Driven  
Page 1 of 4**

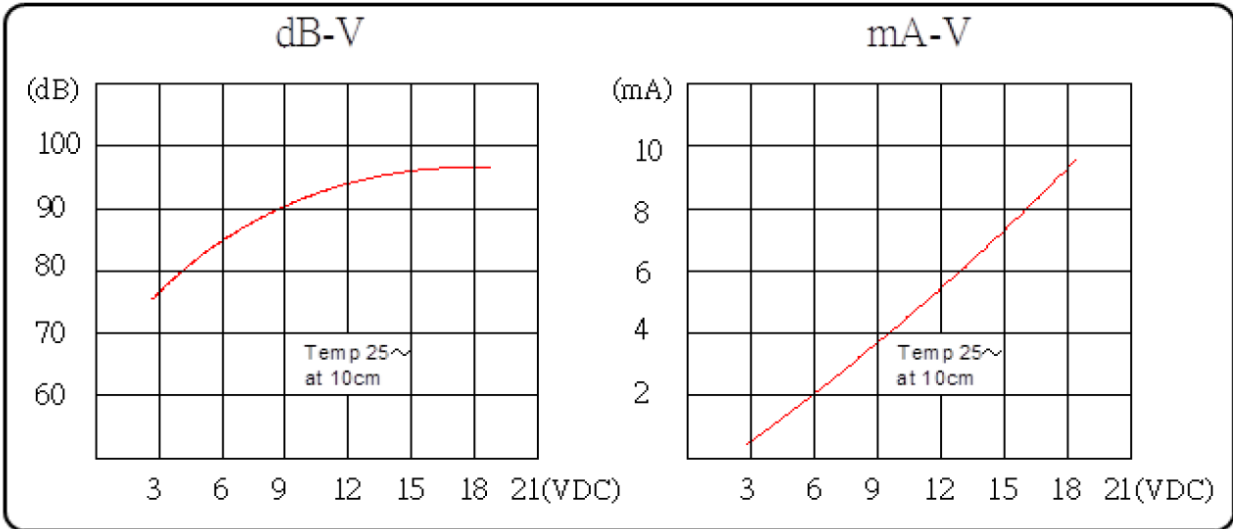
Date:

7/18/2017

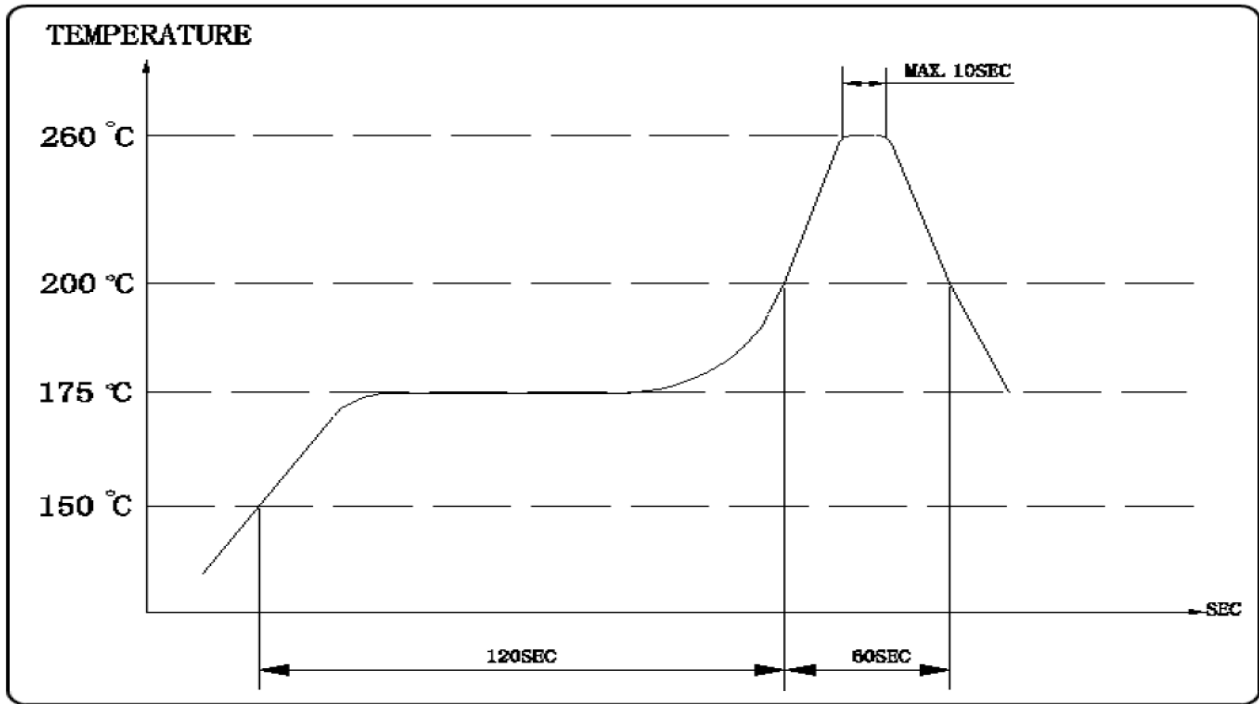
THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF TRANSDUCERS USA, INC. AND EXCEPT FOR USE EXPRESSLY GRANTED TO THE UNITED STATES GOVERNMENT TRANSDUCERS USA, INC. RESERVES ALL PATENT PROPRIETARY DESIGN, USE, SALE, MANUFACTURING AND PRODUCTION RIGHTS THERETO. THIS DOES NOT APPLY TO VENDOR

**SCOPE:** This specification applies to TRSIP-1412

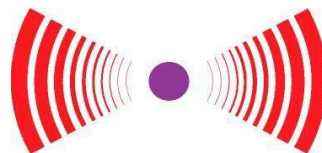
**3. TYPICAL FREQUENCY RESPONSE CURVE**



**4. Recommend Reflowing Profile**



Transducers USA  
Confidential and Proprietary



**Transducers USA**  
1400 Howard Street  
Elk Grove, IL 60007  
Toll Free: 888-921-6400 FAX: 847-956-1950  
[www.tusainc.com](http://www.tusainc.com) info@tusainc.com

All dimensions are in MM unless otherwise specified

Drawing Number:

TRSIP-1412

**SMD Piezo Audio Transducer  
Internal Driven  
Page 1 of 4**

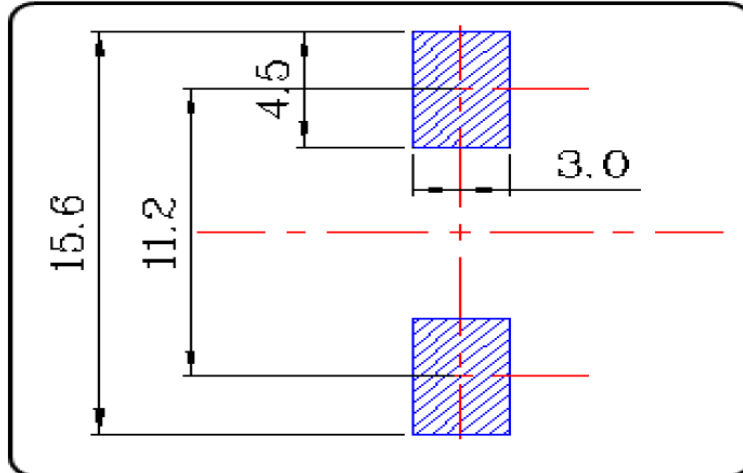
Date:

7/18/2017

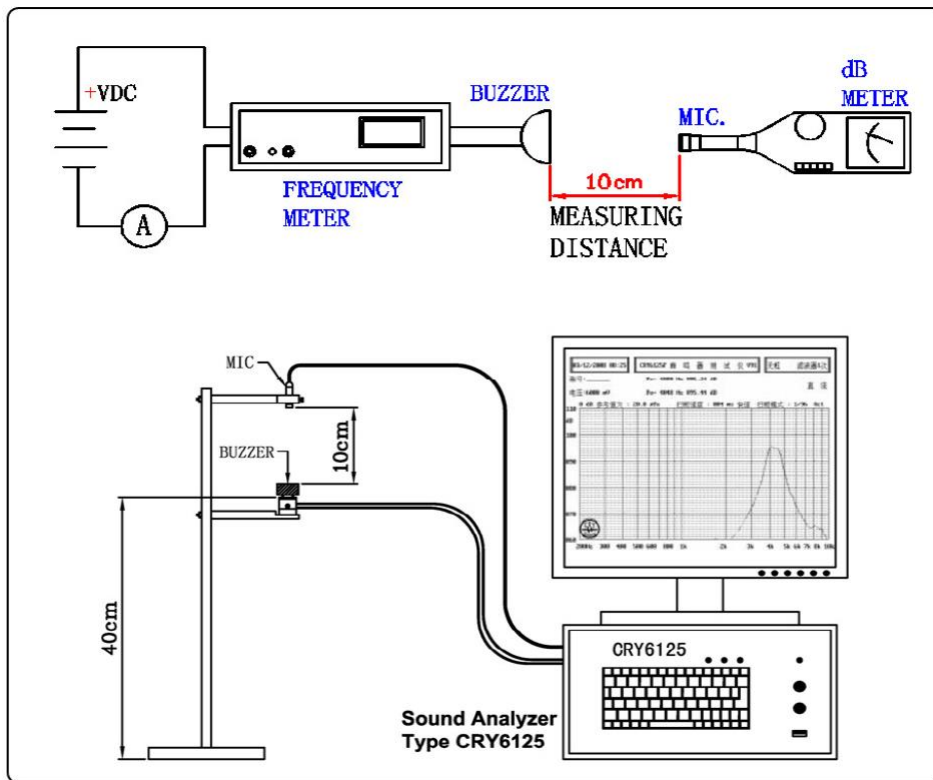
THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF TRANSDUCERS USA, INC. AND EXCEPT FOR USE EXPRESSLY GRANTED TO THE UNITED STATES GOVERNMENT TRANSDUCERS USA, INC. RESERVES ALL PATENT PROPRIETARY DESIGN, USE, SALE, MANUFACTURING AND PRODUCTION RIGHTS THERETO. THIS DOES NOT APPLY TO VENDOR

**SCOPE:** This specification applies to TRSIP-1412

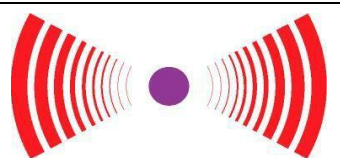
**5. RECOMMEND LAND PATTERN**



**6. MEASURING CONDITION**



Transducers USA  
Confidential and Proprietary



**Transducers USA**  
1400 Howard Street  
Elk Grove, IL 60007  
Toll Free: 888-921-6400 FAX: 847-956-1950  
[www.tusainc.com](http://www.tusainc.com) info@tusainc.com

All dimensions are in MM unless otherwise specified

Drawing Number:

TRSIP-1412

**SMD Piezo Audio Transducer  
Internal Driven  
Page 1 of 4**

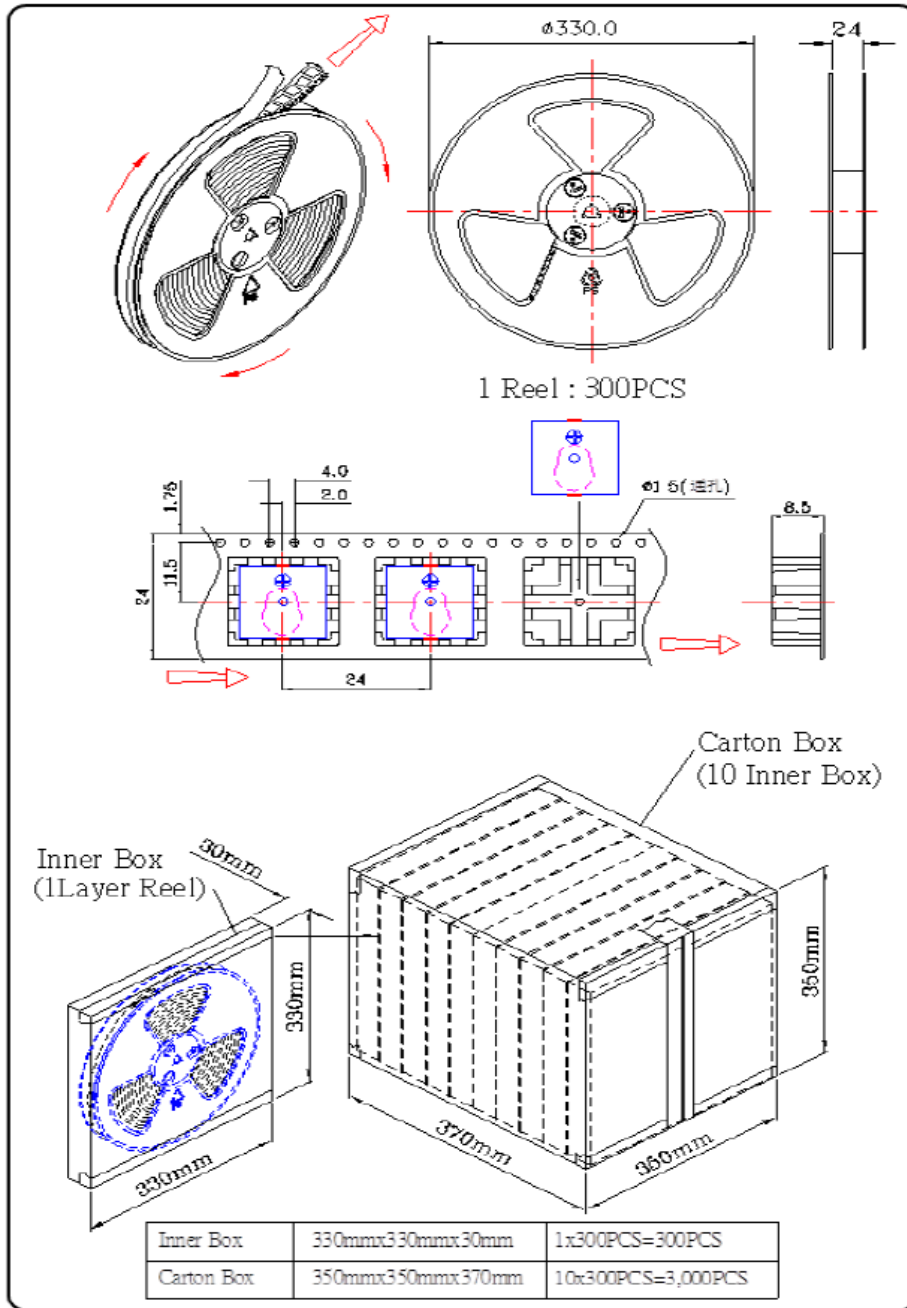
Date:

7/18/2017

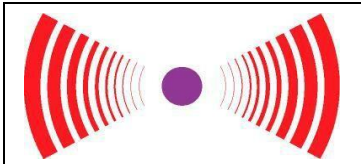
THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF TRANSDUCERS USA, INC. AND EXCEPT FOR USE EXPRESSLY GRANTED TO THE UNITED STATES GOVERNMENT TRANSDUCERS USA, INC. RESERVES ALL PATENT PROPRIETARY DESIGN, USE, SALE, MANUFACTURING AND PRODUCTION RIGHTS THERETO. THIS DOES NOT APPLY TO VENDOR

**SCOPE:** This specification applies to TRSIP-1412

**7. PACKING INFORMATION**



Transducers USA  
Confidential and Proprietary



**Transducers USA**  
1400 Howard Street  
Elk Grove, IL 60007  
Toll Free: 888-921-6400 FAX: 847-956-1950  
[www.tusainc.com](http://www.tusainc.com) info@tusainc.com

All dimensions are in MM unless otherwise specified

Drawing Number:

TRSIP-1412

**SMD Piezo Audio Transducer  
Internal Driven  
Page 1 of 4**

Date:

7/18/2017

THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF TRANSDUCERS USA, INC. AND EXCEPT FOR USE EXPRESSLY GRANTED TO THE UNITED STATES GOVERNMENT TRANSDUCERS USA, INC. RESERVES ALL PATENT PROPRIETARY DESIGN, USE, SALE, MANUFACTURING AND PRODUCTION RIGHTS THERETO. THIS DOES NOT APPLY TO VENDOR