



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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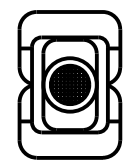
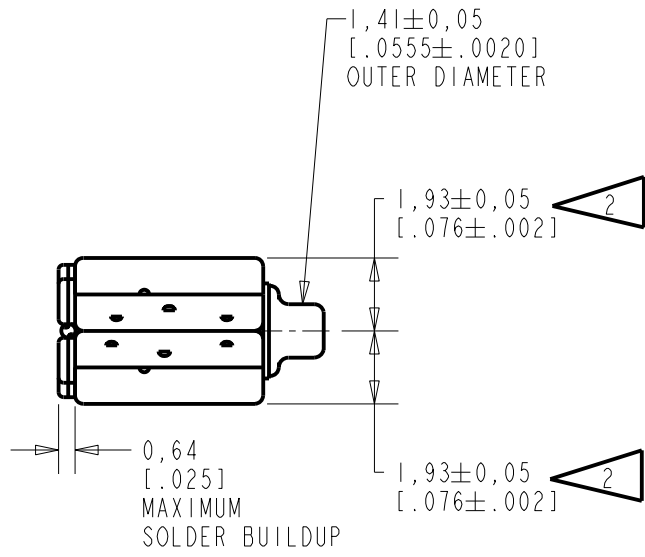
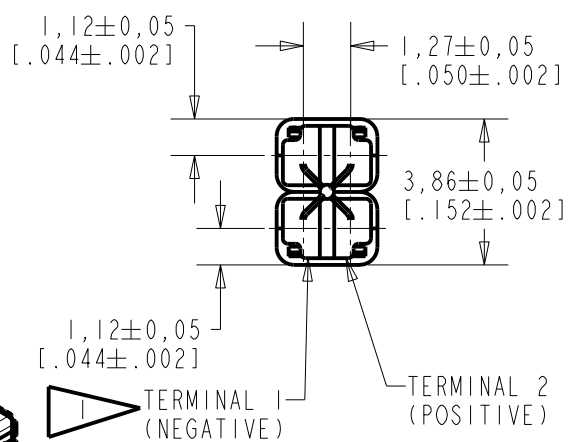
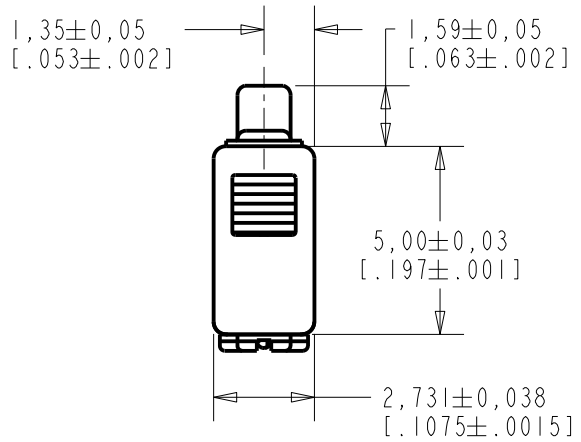


**SWFK-32255-000**  
SHT 1.1

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.

**RED CONTROLLED**



SCALE 2:1  
NOMINAL WEIGHT 0.19 GRAMS  
DIMENSIONS IN MILLIMETERS [INCHES]

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	CI0115507	1-26-14	Active	A

SCALE: 5:1	DR. BY: LW	DATE: 1-26-14
DO NOT SCALE DRAWING	CK. BY: GJP	DATE: 1-28-14
TITLE: RECEIVER	APP. BY: GJP	DATE: 1-28-14
OUTLINE DRAWING	SWFK-32255-000 SHT 1.1	

A PAIR OF MAGNETIC BALANCED ARMATURE RECEIVERS WITH TAPERED REED INTENDED FOR USE AS THE HIGH FREQUENCY DRIVER IN A HI-FI SYSTEM.

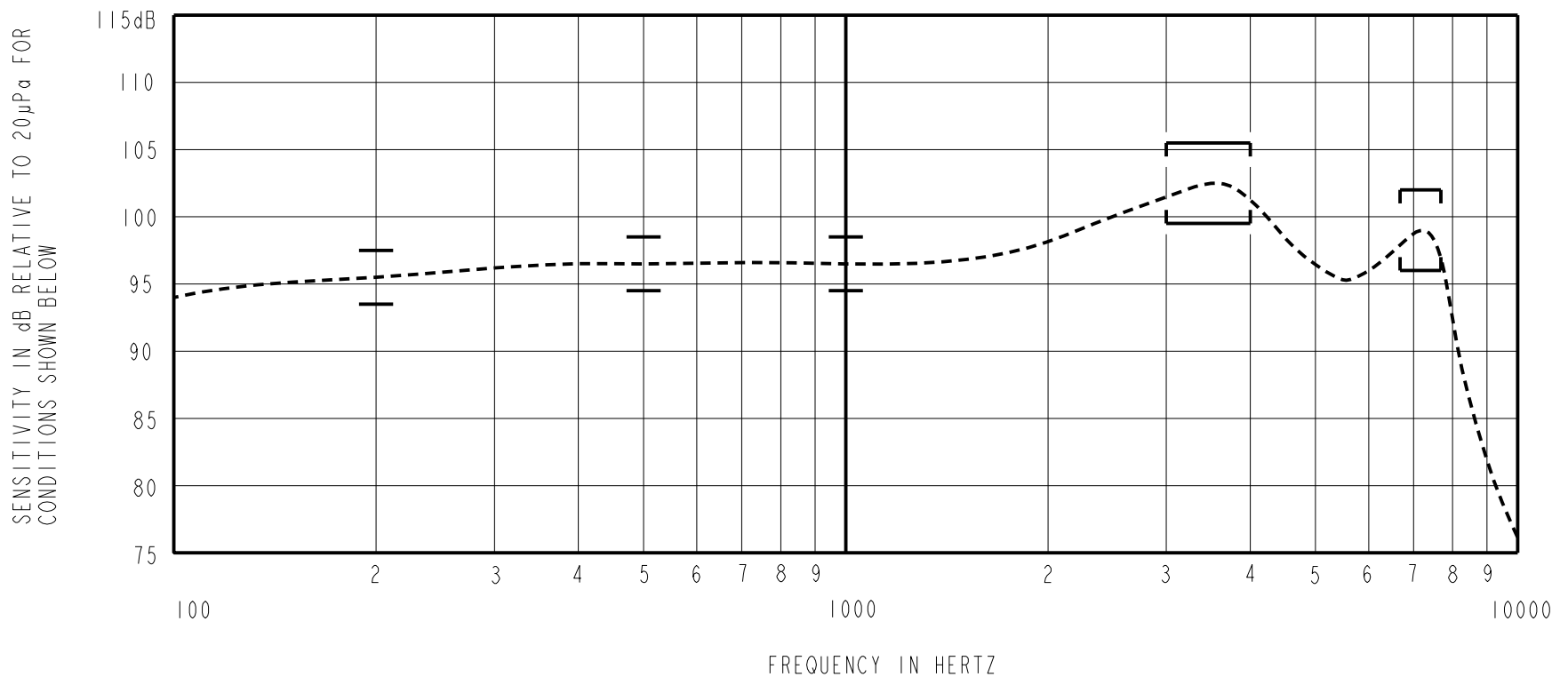
HEAVY TYPE I

SWFK-32255-000

SHEET 2.1

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (\*) ARE 100% TESTED.

CONSTANT VOLTAGE CONDITIONS



ACOUSTICAL

SENSITIVITY\*  
 DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 3.  
 NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20 μPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-3.0	-1.0	+1.0
500	-2.0	0.0	+2.0
1000	-2.0	96.5	+2.0
3000-4000 PEAK	+3.0	+6.0	+9.0
6700-7700 PEAK	-0.5	+2.5	+5.5

TABLE 1

TOTAL HARMONIC DISTORTION\*  
 DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (V)	LIMIT (%)
1166	.094	0	5
1750	.094	0	5
1750	.265	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	.094 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<0.2 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	6.3 Ohms ± 10%*
IMPEDANCE @ 500 Hz	6.6 Ohms ± 20%
IMPEDANCE @ 1kHz	7.0 Ohms ± 20%

TABLE 4

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

MECHANICAL

PORT LOCATION: 12S  
 SOLDER TYPE: SAC305  
 TEMPERATURE  
 OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1 / -3 dB FROM -17°C TO 63°C.  
 STORAGE: -40°C TO 63°C.

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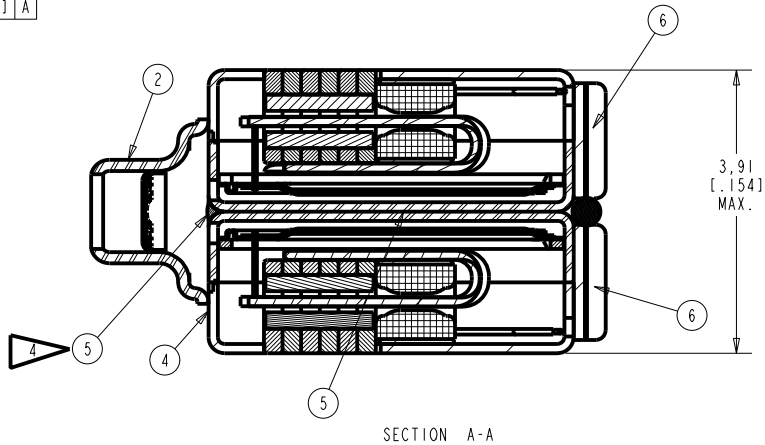
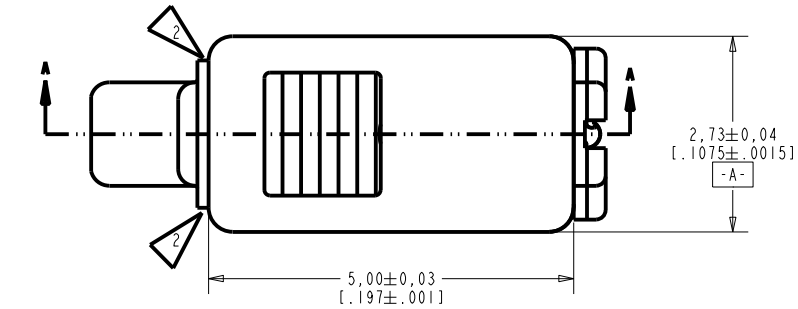
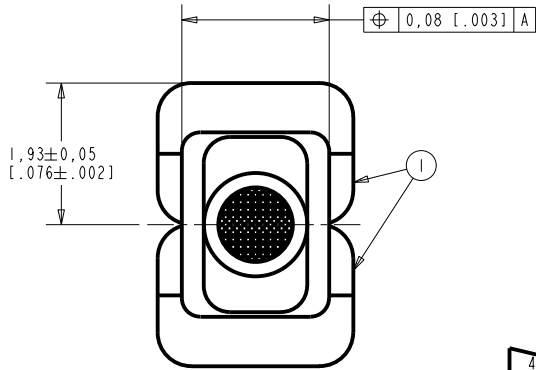
Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10115507	1-26-14	Active	A

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION		DR. BY	DATE
TITLE: <b>RECEIVER</b> PERFORMANCE SPECIFICATION		LW	1-26-14
		GJP	1-28-14
SWFK-32255-000 SHT 2.1		APP. BY	DATE
		GJP	1-28-14

SMFK-32255-000

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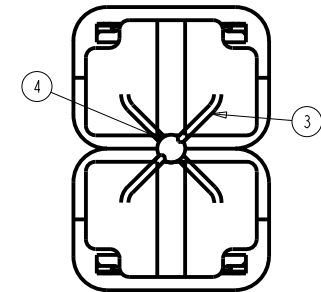
NOTES:

1. ITEM NUMBERS (SHOWN THUS **6**) CORRESPOND TO ITEM NUMBER ON BILL OF MATERIAL.

**2** AIRTIGHT SEAL ALL AROUND.

3. THIS ASSEMBLY IS GLUED TOGETHER AND THE TUBE IS WELDED TO THE CUPS.

**4** SEAL JOINT ACROSS FRONT OF RECEIVER.



DIMENSIONS IN MILLIMETERS (INCHES)

RELEASE LEVEL	REVISION
Active	A
SCALE: 15:1	DO NOT SCALE DRAWING
DR. BY LW	DATE 1-26-14
CH. BY GJP	DATE 1-28-14
APP. BY GJP	DATE 1-28-14

**RED CONTROLLED**

MATERIAL	SEE BILL OF MATERIAL	FINISH	---
REF. A	C10115507	TITLE	RECEIVER ASSEMBLY
NOTE	NONE	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	THIRD ANGLE PROJECTION
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.		SMFK-32255-000	
SHEET		3.1	



<b>SWFK-32255-000</b>	<b>KNOWLES ELECTRONICS</b> <b>ITASCA, ILLINOIS U.S.A.</b>	<b>SWFK-32255-000</b>
Sheet <b>4.1</b>		Sheet <b>4.1</b>
Dr. By Date LW 1-26-14	<b>Subject: RECEIVER ASSEMBLY</b>	<b>Revision: A</b>
Ch. GJP 1-28-14		
App. GJP 1-28-14		
		<b>Release Level</b> <b>Active</b>

COL. 1	2	3	4	Item No.	Line No.
Part or Dwg. no.	Tot. Req.	Nomenclature:	Applicable Specs or Remarks		
WBFK-31142-000	2	RECEIVER ASSEMBLY		1	1
FH-172-015	1	TUBE & SCREEN ASSEMBLY		2	2
103-012	A/R	WIRE		3	3
13-825-3145	A/R	CEMENT		4	4
13-637	A/R	CEMENT		5	5
285-007-221	A/R	SOLDER LEAD FREE		6	6

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REVISION	A	c.o. C10115507		<b>SWFK-32255-000</b> Sheet <b>4.1</b>
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REV: D

PRODUCTION TEST INFORMATION

SOFTWARE REVISION PXI FCAAT	SOFTWARE 2.5 MIN.
HARDWARE REVISION PXI FCAAT	KE 1065E.008 MIN.
TEST BOARD	T4530
TEST COUPLER	T8049

PHASE TEST

FREQUENCY (Hz)	AC DRIVE (mA <sub>rms</sub> )	DEGREE LIMIT	
		MIN	MAX
500	5.8	140	220

**RED CONTROLLED**

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			<b>Active</b>	<b>A</b>
A	C10115507	1-26-14		

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TITLE: **RECEIVER**  
PERFORMANCE SPECIFICATION

**SWFK-32255-000**  
**SHT 5.1**

DR. BY	DATE
LW	1-26-14
CK. BY	DATE
GJP	1-28-14
APP. BY	DATE
GJP	1-28-14