

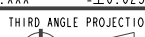


SCALE 5:1

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 USE CAUTION WHEN SOLDERING TO THE TERMINAL. DO NOT TOUCH/DISTURB THE CONTACT PIN PROTRUDING FROM THE RECEIVER. DISTURBING THIS PIN CAN RESULT IN FUNCTIONAL FAILURE.
- 3 LOCATED FROM THE SURFACE FOR COSTUMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.

DIMENSIONS IN MILLIMETER [INCHES]

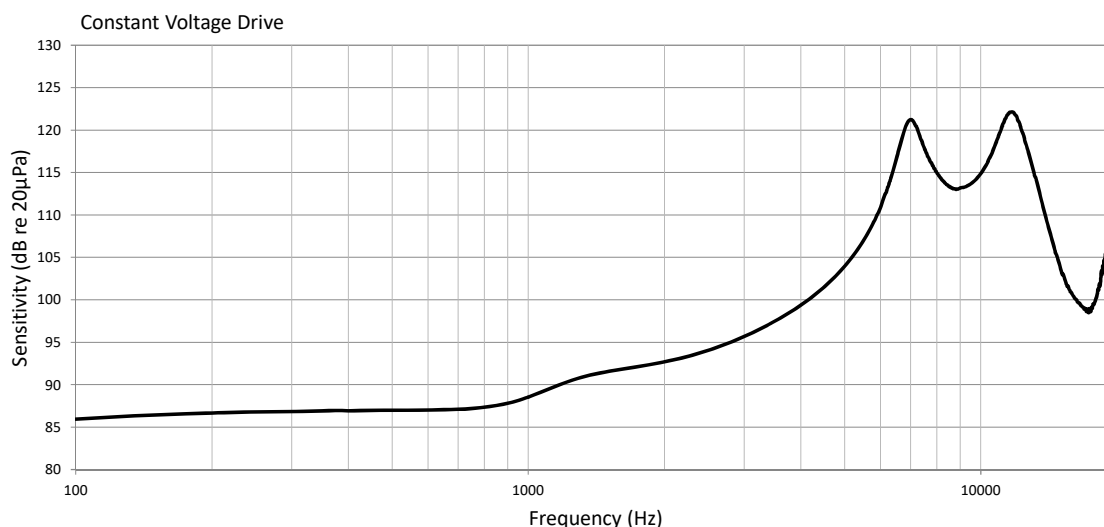
REF	ECR	TITLE	UNLESS OTHERWISE SPECIFIED		 knowles	SCALE: 1:1	DR. BY DATE		REVISION
			ANGLES DIMENSIONS ARE IN MILLIMETERS				JPS 10-5-22		
			X ±0.5		PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTY OF KNOWLES ELECTRONICS, LLC. OR ITS AFFILIATED ENTITIES. IT IS ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, USED, OR DISCLOSED TO ANY THIRD PARTY PARTIALLY OR WHOLLY IN ANY MANNER WITHOUT PRIOR WRITTEN BY PERMISSION OF, AND MUST BE RETURNED UPON REQUEST, KNOWLES ELECTRONICS, LLC.		CH. BY	DATE	
			X.X ±0.13				- - -		
			X.XX ±0.05						
			X.XXX ±0.025						
			THIRD ANGLE PROJECTION				APP. BY	DATE	RELEASE LEVEL
			DO NOT SCALE DRAWING						
			MATERIAL: SEE BILL OF MATERIAL						Design
			RECEIVER OUTLINE DRAWING			RQU-35066-000			
						SHEET 1 OF 1			

This is an undamped magnetic balanced armature receiver intended for use as a high frequency driver.

No Damping

**RQU-35066-000**

Sht 2.1  
RoHS Compliant



### Acoustical

Sensitivity: Device will produce the SPL listed below with the test conditions described in table 3. Nominal sensitivity at 1000 Hz is dB relative to 20 µPa. All other values in dB relative to the sensitivity at 1000 Hz.

Limit Type	Frequency (Hz)	Minimum	Nominal	Maximum
Ref	1000	85.5	88.5	91.5
Peak 1	7000	28.0	33.0	38.0
Peak 2	12000	28.5	33.5	38.5

Table 1

Total Harmonic distortion: Device will not exceed total harmonic distortion levels listed below:

Frequency (Hz)	AC Drive (Vrms)	Bias	Limit (%)
1/3 Peak1	0.188	0	5
1/2 Peak 1	0.188	0	5
1/3 Peak1	0.53	0	10

Table 2

### Test Conditions

Nominal Source Voltage	0.188 Vrms
Source Impedance	<1 Ohm
Tubing	1.75mm x 1mm (I.D)
Coupler Cavity	IEC60318-4(IEC 711, High Frequency Coupler GRAS RA0402)

Table 3

### Electrical

DC Resistance @ 20°C	12.0 Ohms ± 15%
Impedance @ 500 Hz	12.0 Ohms ± 20%
Impedance @ 1 kHz	12.0 Ohms ± 20%

Isolation: Case will be electrically isolated from the coil circuit.

### Mechanical

Port location: 12S

Solder type: RoHS compliant, SAC 305

Temperature

Operating: Sensitivity will not vary more than +3/-3 dB from 0°C to +63°C.

Storage: -40°C to +63°C

Knowles reserves the right to make changes to improve reliability and performance of the product.

**Preliminary**

**Knowles Corporation**

Revision	C.O. #	Implementation Date	Release level	Revision
			<b>Design</b>	
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
			SRK	10/4/22
<b>Receiver</b> Performance Specification			Ck by	Date
			App by	Date
			<b>RQU-35066-000</b>	
			Sht 2.1	

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