

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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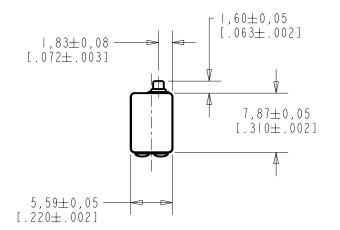






EF-30037-000

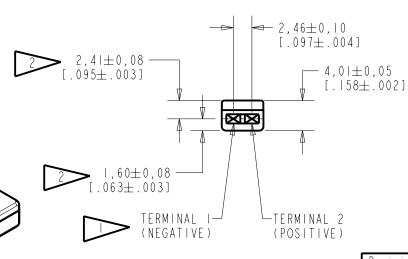
SHT I.I

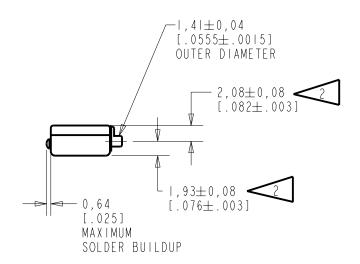


NOTES:

A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.

LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ±0.17 [.007].





NOMINAL WEIGHT .66 GRAM

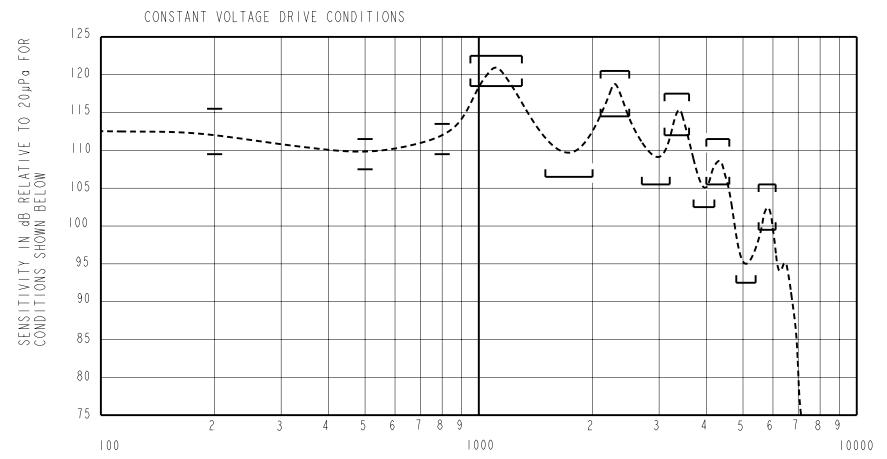
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revisi	n C.O. # Implementation Date RELEASE LEVEL				REVISION
A	C10104592	7 - 14 - 06	Release	d	A
SCALE:	SCALE: 2:1			DR. BY	DATE
DO NOT SCALE DRAWING					7 - 1 4 - 0 6 DATE
TITLE:	RE	CEIVER	EF-30037-000	CRG APP. BY	7 - 1 9 - 0 6 Date
	OUTL	INE DRAWING	SHT I.I	GJP ASIZE ERM	7 - 19 - 06

NO DAMPING

EF-30037-000 SHEET 2.1



ACOUSTICAL

FREQUENCY IN HERTZ

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 500 Hz IS dB RELATIVE TO 20μPα. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	0.0	+3.0	+6.0
500	-2.0	109.5	+2.0
800	0.0	+2.0	+4.0
950-1300	+9.0	+ .0	+ 3.0
1500-2000	- 3 . 0	-	-
2100-2500	+5.0	+8.0	+ .0
2700-3200	-4.0	-	-
3100-3600	+2.5	+5.5	+8.5
3700-4200	-7.0	-	-
4000-4600	- 4 . 0	-1.0	+2.0
4800-5400	-17.0	-	-

PORT LOCATION: IS

SHT 2.1

GJP

7-19-06

TABLE I

5500-6100

TOTAL HARMONIC DISTORTION

-10.0

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

-7.0

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
500	0.118	0	5
500	0.210	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.118 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	8mm x 1mm 1D + 28mm x 1.5mm 1D EAR HOOK SIMULATOR + 25mm x 2mm 1D TUBE + 18mm x 3mm 1D TUBE
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

-4.0

TABLE 3

FLECTRICAL

ELECTRICAL			
DC RESISTANCE	15 Ohms \pm 10%		
IMPEDANCE @ 500 Hz	40 Ohms ± 15%		
IMPEDANCE @ IkHz	98 Ohms ± 15%		

TABLE

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

	Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
		Released			Δ	
	A C10104592 7-14-06				<i>,</i> ,	
	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	
				AB	7 - 14 - 06	
ECTRONICS					CK. BY	DATE
NOIS U.S.A.	TITLE:	RECEIVER EF-30037-000		CRG	7-19-06	
1010 U.D.A.		11 [- C L I V L IV	Li 3003/ 000	ADD DV	DATE

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.