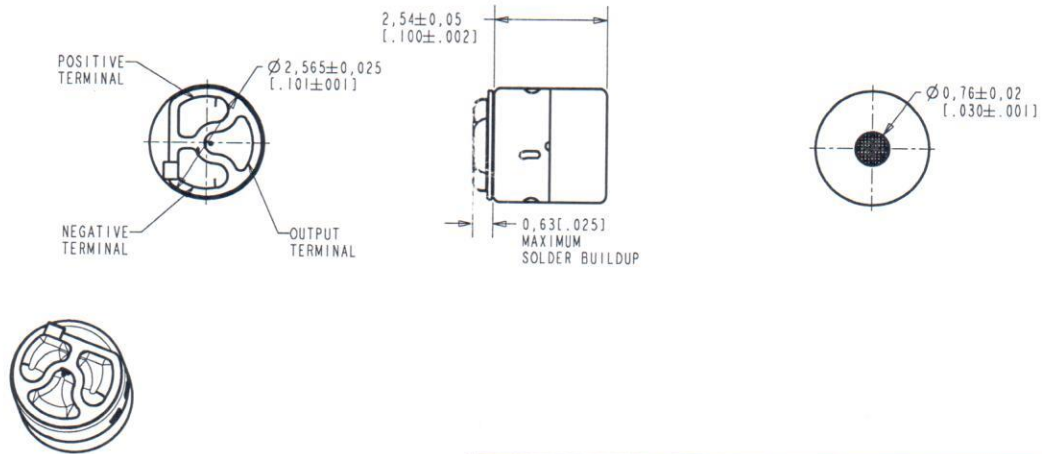


Ontansducer: 31943, 19438892301 pas. digit 2 or 7.

FC44-31993-000
SHT 1.1

NOTES:

1. INCREASED PRESSURE AT THE SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.



DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	W10105265	10-17-13	Active	A
SCALE: 10:1			DR. BY	DATE
DO NOT SCALE DRAWING			JL	10-10-13
TITLE: MICROPHONE			CR. BY	DATE
OUTLINE DRAWING			GJP	
FC44-31993-000			APP. BY	DATE
SHT 1.1			GJP	

NET/ISSUE/REV

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	W10105265	10-17-13	Active	A
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.				
MICROPHONE				
FC44-31993-000				
SHT 2.1				

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.



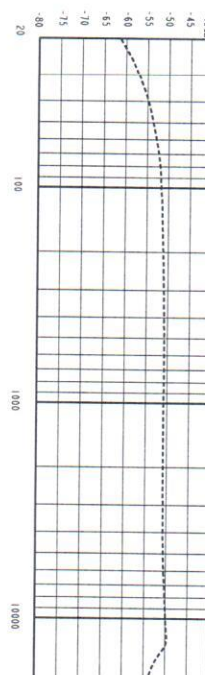
NOTES:

1. CASE CONNECTED TO NEGATIVE TERMINAL.

2. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 0.9 VDC AND 500HZ/115dBSPL LOAD IMPEDANCE TYPICAL TEST ENVIRONMENT: 501 MH, 21 C(70 F)

PARAMETER	UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
DC POWER SUPPLY	VDC	0.9	0.9	1.5	
PERFORMANCE					
SENSITIVITY	dB	-3.0	-1.0	-1.0	1% SENSITIVITY AT 1 KHZ
	dB	-54.0	-51.0	-48.0	1% SENSITIVITY AT 100 HZ
	dB	-2.0	1.0	4.0	1% SENSITIVITY AT 1 KHZ
AMPLIFIER CURRENT DRAIN	mA	-	19	30	
OUTPUT LOAD VOLTAGE	V	0.22	0.4	0.58	OPEN LOAD
A-WEIGHTED NOISE	dB(A)	25.0	29.0		INPUT REFERRED NOISE (dB(A))
OUTPUT IMPEDANCE	Ohms	6000	8000	10000	SPR. 1% SENSITIVITY AT 1 KHZ

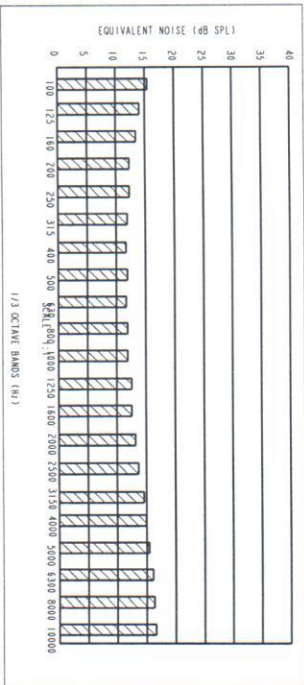
SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/1 Pa (1 N/M²)
FOR CONDITIONS SHOWN BELOW



FC44-31993-000
SHEET 2.1
BASIC COMPONENT

REMS COMPLIANT

A) 1/3 OCTAVE INPUT REFERRED NOISE



B) PERFORMANCE

PARAMETERS		UNIT		PERFORMANCE		REMARKS	
POWER SUPPLY RE-JECTOR RATIO (PSRR)	1000 Hz	dB	MINIMUM	-32	MAXIMUM	-30	SUPPLY NOISES @ 0.5 VDC
INPUT REFERRED VIBRATION SENSITIVITY	1000 Hz	dB/g	-	-32	-30	BLOCKED FROM 10 Hz REJECTION	
MODULITY COEFFICIENT	1000 Hz	dB	-	0.56	31	BLOCKED FROM 10 Hz REJECTION	
TEMPERATURE RANGE	OPERATING	°C (F)	-175 (A)	-	63 (145.4)	CELSIUS (FAHRENHEIT 11)	
	STORAGE	°C (F)	-40 (-40)	-	63 (145.4)	CELSIUS (FAHRENHEIT 11)	
ESD TOLERANCE	MIL-STD-883C CLASS 2 METHOD 1019						
	ESD-55, 1-1993 CLASS 2 METHOD 1019						

KNOWLES RESERVES THE RIGHT TO MAKE CHANGES TO IMPROVE RELIABILITY AND PERFORMANCE OF THE PRODUCT

REVISION	C.O.#	DESCRIPTION DATE	REVISION LEVEL	REVISION
1	00000000	18-11-13	Active	A
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.				
MICROPHONE				
FC44-31993-000				
SMT 2.2				