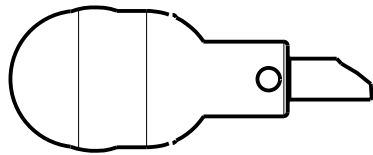


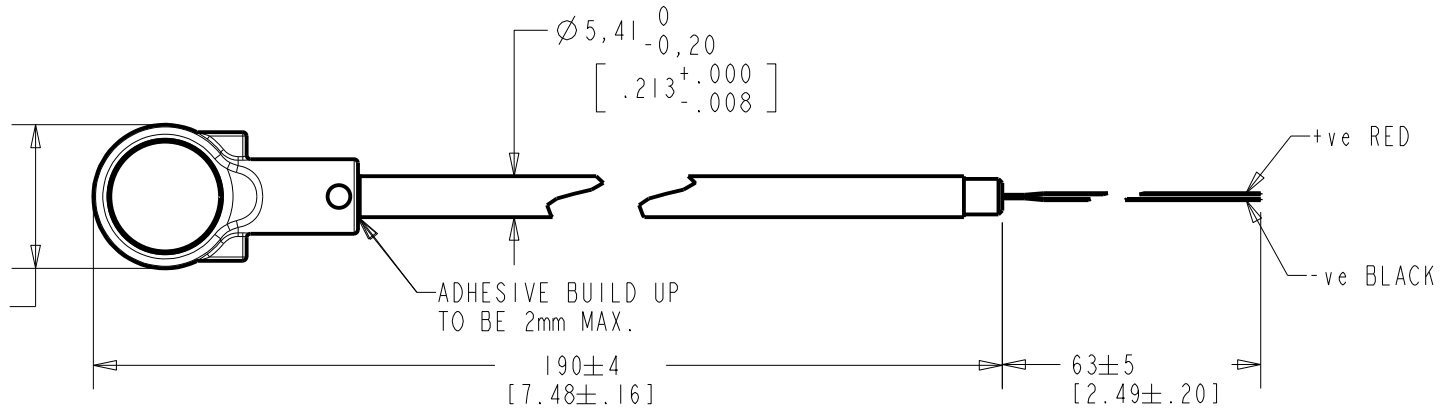
FB-EM-30343-000  
SHT 1.1

**RED CONTROLLED**



TOP VIEW  
W/WINDSHIELD SHOWN  
SCALE 1:1

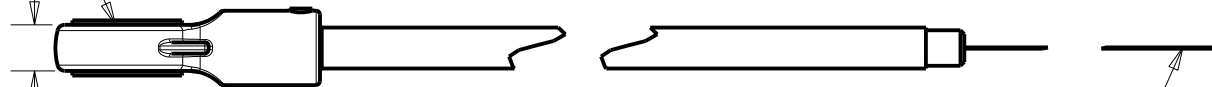
$\varnothing 19,0 \pm 0,3$   
[.748 ± .012]



PLASTIC HOUSING, BLACK



$6,10 \pm 0,12$   
[.240 ± .005]



WIRES  
2mm STRIPPED & TINNED ENDS

WIRE COLOR			WEIGHT GRAMS
+ve	OUTPUT	-ve	
RED	---	BLACK	---

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C40101206	3-7-13	Active	C
B	C10107748	8-12-08		
A	C10107379	6-26-08		

SCALE:

1:1

DO NOT SCALE DRAWING

TITLE:

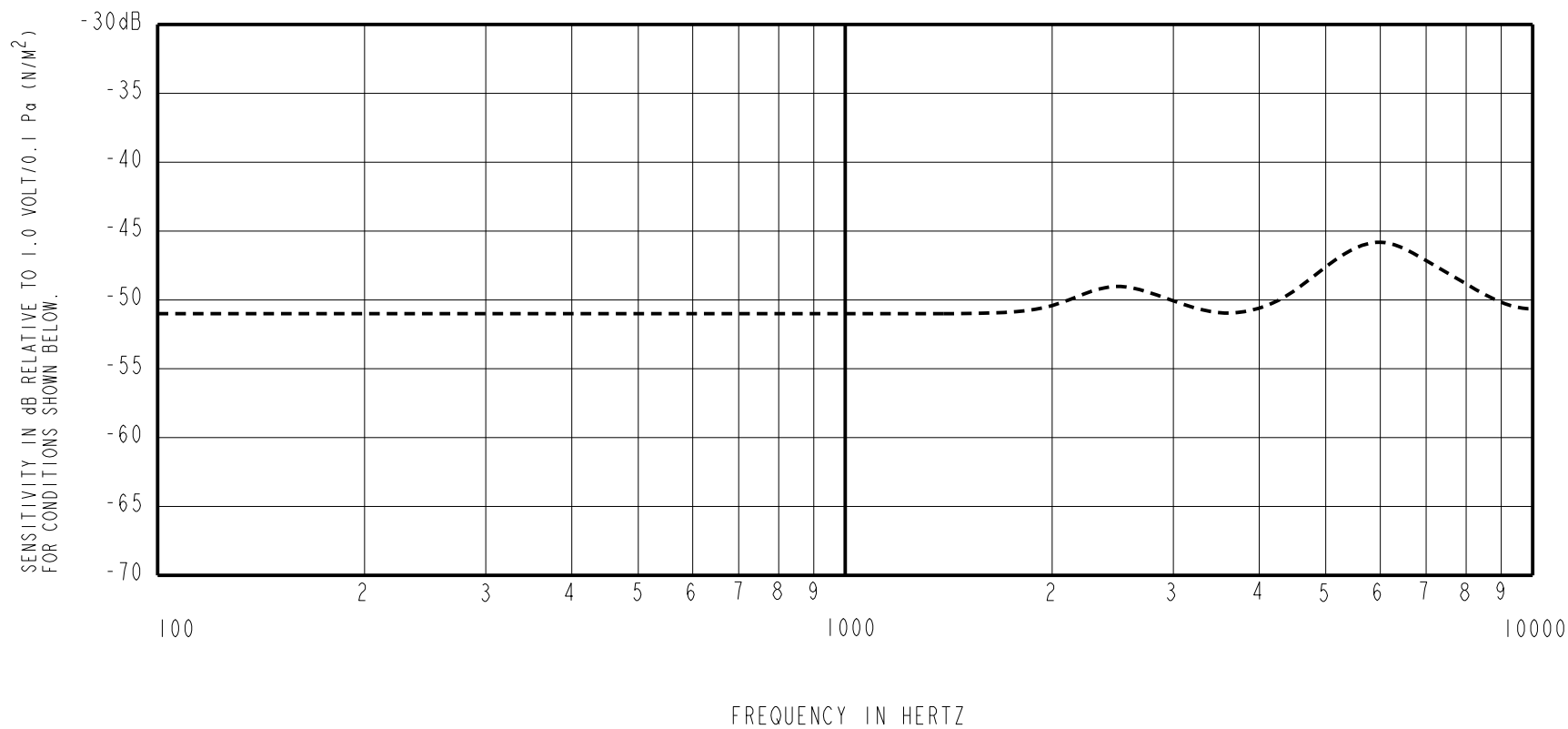
BOOM MICROPHONE FB-EM-30343-000

OUTLINE DRAWING

SHT 1.1

DR. BY	DATE
TT	6-26-08
CK. BY	DATE
GJP	7-15-08
APP. BY	DATE
GJP	7-15-08

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

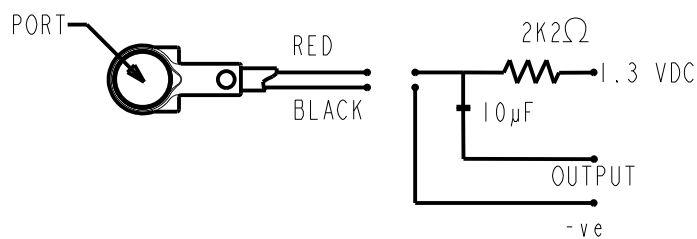
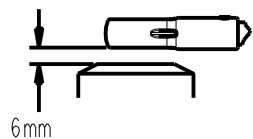


FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
300	---	-51.0	---	-4.0	+4.0
1000	-55.0	-51.0	-47	0.0	0.0
2000	---	-50.5	---	-4.0	---
6000	---	-46.5	---	0.0	+9

**RED CONTROLLED**

NOTES:

- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- TEST CONDITIONS:  
HEAD OF BOOM EXPOSED TO 74 dB SPL SWEPT SOUND FIELD AT 6mm FROM VOICE APERTURE.  
ARTIFICIAL VOICE:  
B & k 4227 MOUTH SIMULATOR.
- FOR MICROPHONE CAPSULE SPEC. SEE DRAWING WP-25993-D63
- SURVIVES 3m SUBMERSION BASED ON QUALIFICATION TESTING. 100% TEST 30 MINUTES 1m SUBMERSION; SENSITIVITY WITHIN 3dB OF INITIAL SENSITIVITY AFTER DRIED FOR 30 MINUTES AT ROOM TEMPERATURE.



LEAD IDENTIFICATION & TEST CIRCUIT

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C40101206	3-7-13	Active	C
B	C10107748	8-12-08		
A	C10107379	6-26-08		

**KNOWLES ELECTRONICS**  
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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

TITLE: **BOOM MICROPHONE FB-EM-30343-000**  
PERFORMANCE SPECIFICATION **SHT 2.1**

DR. BY	DATE
TT	6-26-08
CK. BY	DATE
GJP	7-15-08
APP. BY	DATE
GJP	7-15-08

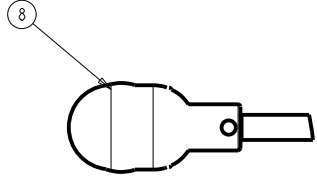
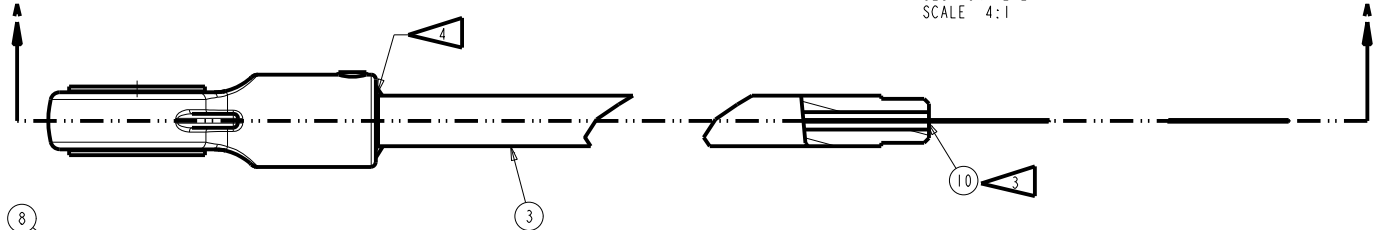
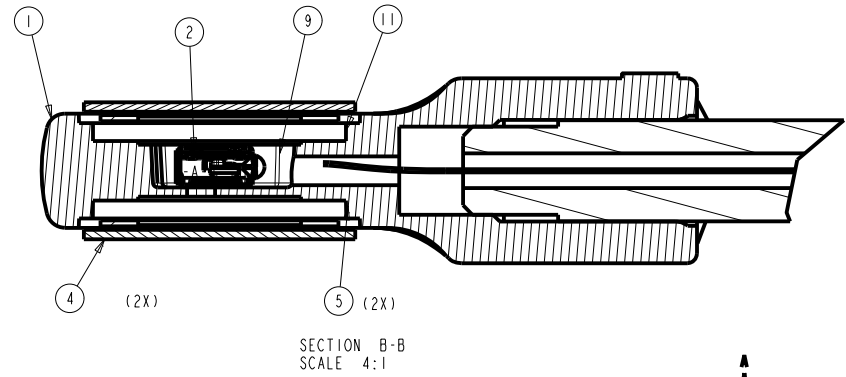
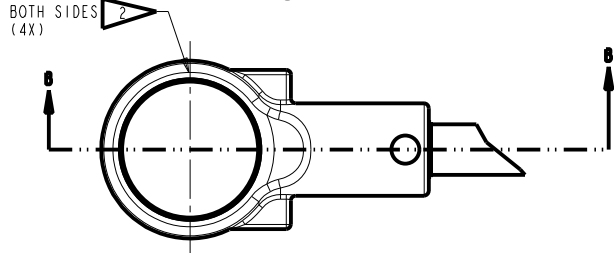
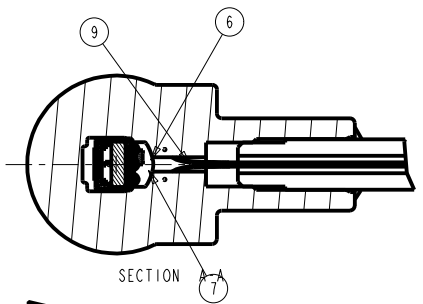
FB-EM-30343-000

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**RED CONTROLLED**

NOTES:

1. ITEM NUMBERS (SHOWN THUS **b**) ON DRAWING CORRESPOND WITH ITEM NUMBERS ON BILL OF MATERIAL.
2. ATTACH ITEM **4** TO ITEM **1** IN 4 PLACES MINIMUM ON EACH SIDE USING CEMENT.
3. SEAL BOOM END WITH ITEM **10**. BUILD UP TO BE 2mm MAX.
4. SEAL WHOLE HEAD CAVITY WITH ITEM **9**, WIRE HOLE MUST BE FILLED, ADHESIVE BUILD UP TO BE 2mm MAX.



DIMENSIONS IN MILLIMETERS [INCHES]

MATERIAL		SEE BILL OF MATERIALS		FINISH		RELEASE LEVEL	REVISION
REF. 10-1747	A C10107379					Active	C
	B C10107748					SCALE: 2:1	DO NOT SCALE DRAWING
RENAME IN PROZE FROM FB-30243-000 TO FB-EM-30343-000 11.8.12-08		C C40101206		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		DR. BY DATE TT 6-26-08	
UPDATE THE REVISION 00 3-7-13				THIRD ANGLE PROJECTION		CH. BY DATE GJP 7-15-08	
				TITLE		APP. BY DATE GJP 7-15-08	
				BOOM MICROPHONE ASSEMBLY		FB-EM-30343-000	
						SHEET 3.1	

KEY: 131, BS: SIZE, FPM REV: 0

<b>FB-EM-30343-000</b>			<b>KNOWLES ELECTRONICS</b>		<b>FB-EM-30343-000</b>		
Sheet <b>4.1</b>			ITASCA, ILLINOIS U.S.A.		Sheet <b>4.1</b>		
Dr.	By	Date	Subject:	<b>BOOM MICROPHONE ASSEMBLY</b>	Revision		
Ch.	GJP	7-15-08			<b>C</b>	Release Level	
App.	GJP	7-15-08				<b>Active</b>	

COL. 1	2	3	4	Item No.	Line No.
Part or Dwg. no.	Tot. Req.	Nomenclature:	Applicable Specs or Remarks		
FB-218-500	1	HOUSING		1	1
WP-25993-D63	1	MICROPHONE ASSEMBLY		2	2
FB-189-167	1	FLEXIBLE BOOM 6 mm		3	3
FB-223	2	SCREEN DISC		4	4
FB-234	2	MEMBRANE		5	5
FB-070-050	1	WIRE BLACK TEFLON		6	6
FB-070-049	1	WIRE RED TEFLON		7	7
FB-042	1	WINDSHIELD		8	8
13-092-120101	A/R	CEMENT		9	9
13-591	A/R	SILICONE SEALANT		10	10
13-092-130102	A/R	CEMENT		11	11

**RED CONTROLLED**

<b>REVISION</b>	A	c.o. C10107379
	B	c.o. C10107748
	RENAME IN PROFE FROM FB-30343-000 TO FB-EM-30343-000 TT 8-12-08	
C	c.o. C40101206	
FB-234 WAS FB-038 00 3-7-13		

**FB-EM-30343-000**  
Sheet **4.1**

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REF: 300-FRM-00-FRM REF: 0