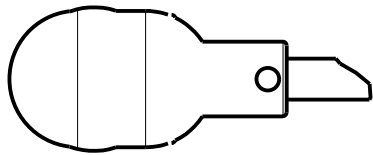


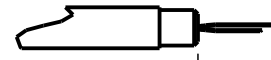
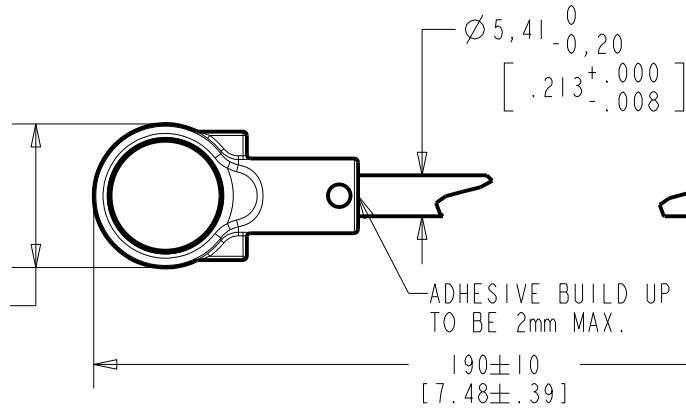
FB-EM-30342-000  
SHT 1.1

**RED CONTROLLED**

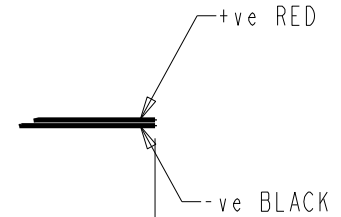


TOP VIEW  
W/WINDSHIELD SHOWN  
SCALE 1:1

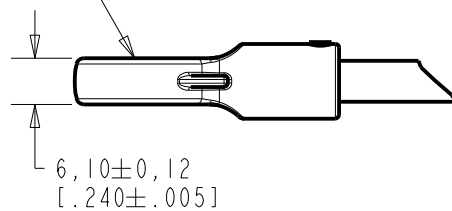
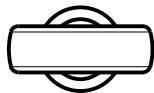
$\varnothing 19,0 \pm 0,3$   
[.748 ± .012]



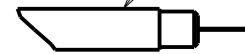
60 ± 5  
[2.36 ± .20]



PLASTIC HOUSING, BLACK



BLACK POLYURETHANE SHRINK COVER  
ON FLEXI-SET BOOM



WIRES

2mm STRIPPED & TINNED ENDS

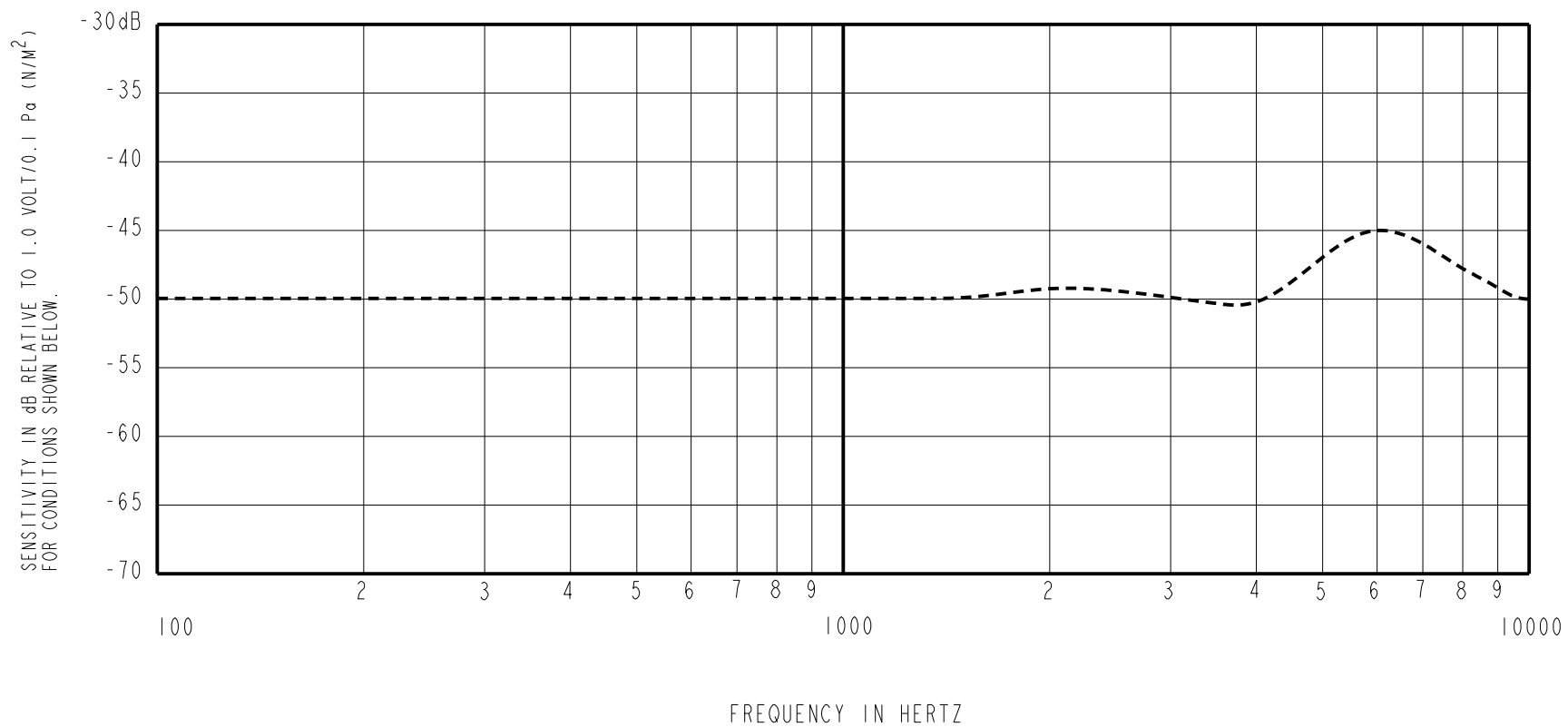
WIRE COLOR			WEIGHT GRAMS
+ve	OUTPUT	-ve	
RED	---	BLACK	---

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C40101206	3-6-13	<b>Active</b>	<b>C</b>
B	C10107747	8-9-08		
A	C10107368	5-27-08		

SCALE: 1:1	DR. BY TT	DATE 5-27-08
DO NOT SCALE DRAWING	CK. BY GJP	DATE 6-4-08
TITLE: BOOM MICROPHONE	APP. BY GJP	DATE 6-4-08
OUTLINE DRAWING		DATE 6-4-08
		SHT 1.1

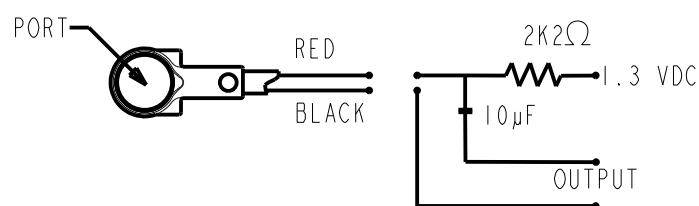
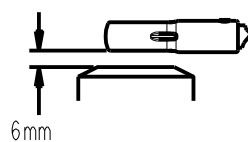
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
300	---	-50.0	---	-4.0	+4.0
1000	-54.0	-50.0	-46	0.0	0.0
2000	---	-49.5	---	-4.0	---
6000	---	-45.5	---	0.0	+9

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 NR-25994-D63 SHEET 2.1.
- SURVIVES SUBMERSION IN 1m OF WATER FOR 5 MINUTES; SENSITIVITY WITHIN 3dB OF INITIAL SENSITIVITY AFTER DRIED FOR 30 MINUTES AT ROOM TEMPERATURE.



**RED CONTROLLED**

LEAD IDENTIFICATION  
& TEST CIRCUIT

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C40101206	3-6-13	<b>Active</b>	<b>C</b>
B	C10107747	8-9-08		
A	C10107368	5-27-08		
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>BOOM MICROPHONE</b> <b>FB-EM-30342-000</b> PERFORMANCE SPECIFICATION <b>SHT 2.1</b>			TT	5-27-08
			CK. BY	DATE
			GJP	6-4-08
			APP. BY	DATE
			GJP	6-4-08

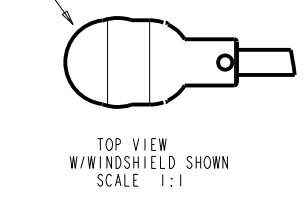
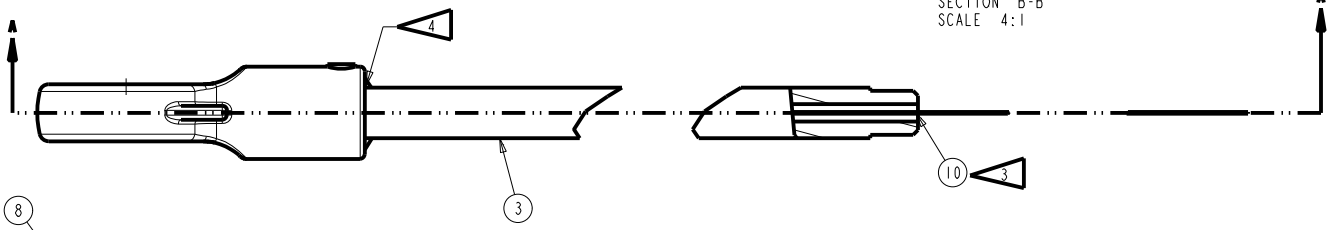
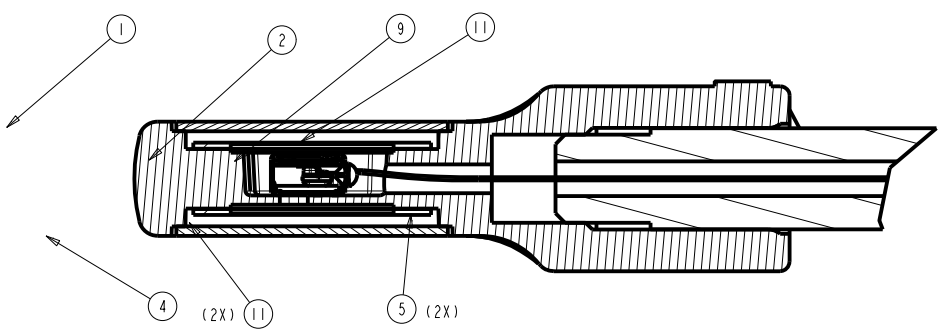
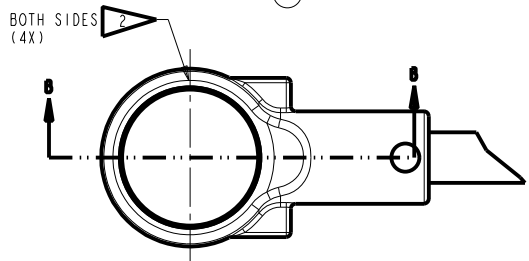
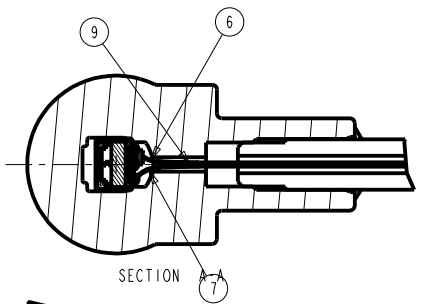
FB-EM-30342-000

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**RED CONTROLLED**

NOTES:

- ITEM NUMBERS (SHOWN THUS **b**) ON DRAWING CORRESPOND WITH ITEM NUMBERS ON BILL OF MATERIAL.
- ATTACH ITEM **4** TO ITEM **1** IN 4 PLACES MINIMUM ON EACH SIDE USING CEMENT.
- SEAL BOOM END WITH ITEM **10**. BUILD UP TO BE 2mm MAX.
- 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	C10107368			Active	C
		B	C10107747			SCALE: 2:1	DO NOT SCALE DRAWING
RENAME IN PROZE FROM FB-30342-000 TO FB-EM-30342-000 11.8.11-00						DR. BY DATE	
C C40101206 UPDATE THE REVISION 00 3-4-13						TT 5-27-08	
				UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		CH. BY DATE	
				THIRD ANGLE PROJECTION		GJP 6-4-08	
				TITLE		APP. BY DATE	
				BOOM MICROPHONE ASSEMBLY		GJP 6-4-08	
				KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.		FB-EM-30342-000	
						SHEET 3.1	

KEY: B SIZE, FROM REV: B

<b>FB-EM-30342-000</b>			<b>KNOWLES ELECTRONICS</b>		<b>FB-EM-30342-000</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	6-4-08			<b>C</b>	Release Level	
App.	GJP	6-4-08				<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
NR-25994-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. C10107368
	B	c.o. C10107747
	RENAME IN PROFE FROM FB-30342-000 TO FB-EM-30342-000 TT 8-11-08	
C	c.o. C40101206	
FB-234 WAS FB-038 00 3-4-13		

**FB-EM-30342-000**  
Sheet **4.1**

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REF: BOOM-PART-000-PMW REF: 0