



**THE DATASHEET OF  
RF23S-92SPP-92SPP-0100**



**THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING**

**DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]**

**RF23S-XXXXX-XXXXXX-XXXX**

DO NOT SCALE FROM THIS PRINT

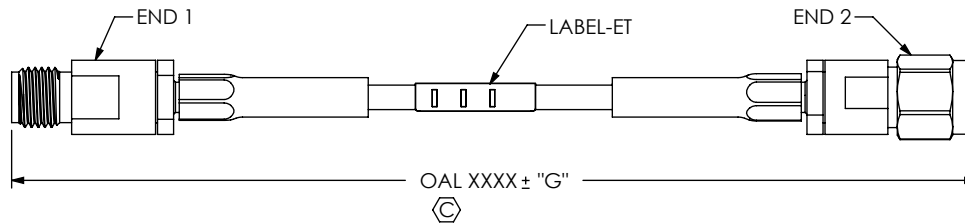
**PATENT NUMBER 7,544,093**

CABLE CALLOUT  
23S: MWC-2350-01 CABLE

OVERALL ASSEMBLY LENGTH (OAL)  
XXXX (MILLIMETERS) (0100 MIN) (SEE NOTE 9)

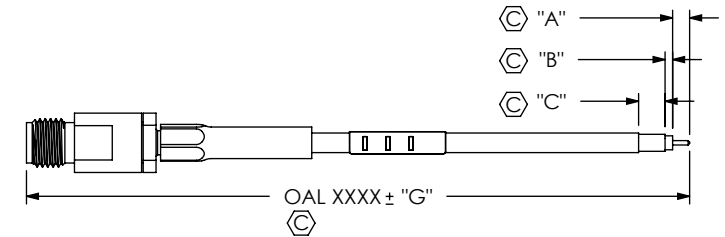
END 1 CONNECTOR  
(SEE TABLE 3, SHT 2)

END 2 CONNECTOR OR PREPARATION  
(SEE TABLE 3, SHT 2)



**FIG 1**  
RF23S-92S JX-92SPX-XXXX SHOWN

TABLE 2	
OVERALL LENGTH	"G"
0100-0200 [3.94-7.87]	+3.0 [.12] / -0.0 [.00]
0201-0500 [7.91-19.69]	+5.0 [.20] / -0.0 [.00]
0501-1100 [19.72-43.30]	+10.0 [.39] / -0.0 [.00]
> 1100 [43.30]	± 1%



**FIG 2**  
RF23S-92S JX-172849-XXXX SHOWN (SEE NOTE 3 & 5)

DO NOT LEAVE ANY SPACE BLANK, EACH MUST CONTAIN A NUMERIC CHARACTER 0 THRU 9.

NOTES:

- Ⓢ REPRESENTS A CRITICAL DIMENSION
- ASSEMBLY TO BE 100% TESTED FOR OPENS, SHORTS & HI-POT TESTED (PER TABLE 1, AC OR DC), THE HI-POT VOLTAGE FOR THE ASSEMBLY SHOULD BE SET TO THE END OPTION WITH THE LOWEST TEST VOLTAGE RATING.
- DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm.
- FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.
- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- FERRULE AND SPRING ARE FREE FLOATING AND ARE NOT STATIONARY.
- AFTER FINAL ELECTRICAL TEST, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL-ET.
- CABLE ASSEMBLIES TO BE BULK PACKAGED PER PACKAGING STANDARD CO-RF-WI-3040-M.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.

F:\DWG\MISC\MKTG\RF23S-XXXXX-XXXXXX-XXXX-MKT.SLDDRW

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE: DECIMALS ANGLES .X: ±0.3 [.01] 5° .XX: ±0.13 [.005] .XXX: ±0.051 [.0020]	<b>PROPRIETARY NOTE</b> * THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.
<b>MATERIAL:</b> DO NOT SCALE DRAWING SHEET SCALE: 2:1 INNER PINS: BeCu INSULATORS: PTFE (SCC31) PCTFE (OTHERS) GASKETS: SILICONE CABLE BODY, RETAINER, FERRULE: BRASS SPRING, SHELLS, BODY, C-RING, NUT: STAINLESS STEEL	

<b>samtec</b>	
520 PARK EAST BLVD. NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322	
DESCRIPTION:	RF23S CABLE ASSEMBLY
DWG. NO.	RF23S-XXXXX-XXXXXX-XXXX
BY: EMMA CHEN 12/14/2012	SHEET 1 OF 8

PATENT NUMBER  
7,544,093

TABLE 3

END OPTION	SERIES	GENDER	CONFIGURATION	PLATING			FIGURE
				CENTER CONTACT	OUTER CONTACT	OTHER COMPONENTS	
-92SJP	2.92 MM	JACK	STRAIGHT	30μ" GOLD	STAINLESS STEEL	3μ" GOLD	SHT 3, FIG 3
-92SPP	2.92 MM	PLUG	STRAIGHT	30μ" GOLD	STAINLESS STEEL	3μ" GOLD	SHT 3, FIG 4
-SCC31	Bull's Eye ®	N/A	N/A	30μ" GOLD	3μ" GOLD	3μ" GOLD	SHT 4, FIG 5
-35SJP	3.50 MM	JACK	STRAIGHT	30μ" GOLD	STAINLESS STEEL	3μ" GOLD	SHT 4, FIG 6
-35SPP	3.50 MM	PLUG	STRAIGHT	30μ" GOLD	STAINLESS STEEL	3μ" GOLD	SHT 5, FIG 7
*-SING	SINGLE ENDED	-	-	-	-	-	-
*-XXXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 2

\* = END 2 OPTION ONLY

TABLE 1

END OPTION	SUBTRACTOR	STRIP DIMENSIONS			HI POT	
		"Y"	"A"	"D"	"E"	"DC"
-92SJP	7.7 [0.30]	2.25 [0.089]	3.25 [0.128]	6.75 [0.266]	1000	1000
-92SPP	8.5 [0.33]	2.25 [0.089]	3.25 [0.128]	6.75 [0.266]	1000	1000
-SCC31	1.7 [0.07]	2.16 [0.085]	2.16 [0.085]	5.94 [0.234]	1000	750
-35SJP	8.3 [0.33]	1.65 [0.065]	2.45 [0.096]	5.95 [0.234]	1000	1000
-35SPP	9.2 [0.36]	1.65 [0.065]	2.45 [0.096]	5.95 [0.234]	1000	1000
*-SING	0.0 [0.00]	-	-	-	1000	1000
*-XXXXXX	0.0 [0.00]	"A"	"A"+"B"	"A"+"B"+"C"	1000	1000

\* = END 2 OPTION ONLY

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SHEET SCALE: 1:1



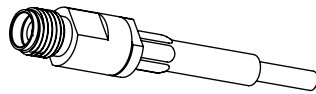
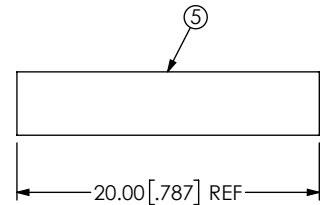
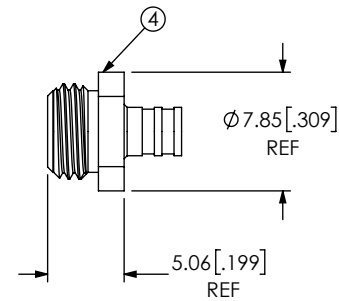
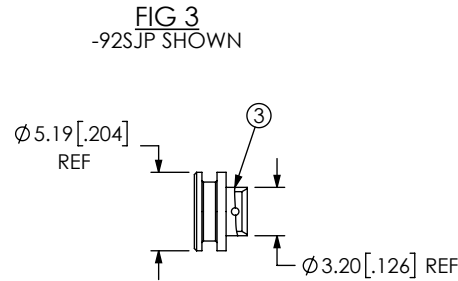
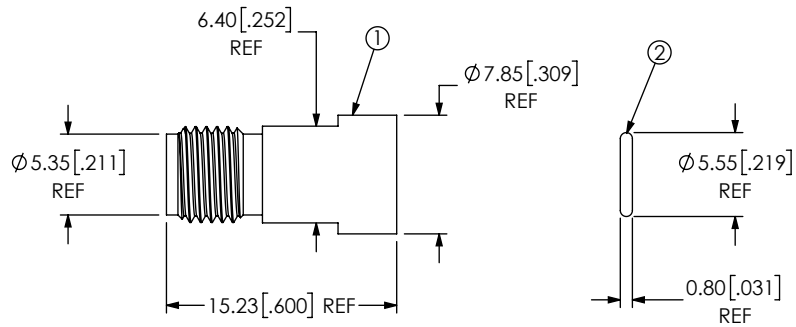
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DWG. NO. RF23S-XXXXX-XXXXXX-XXXX

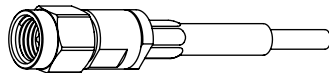
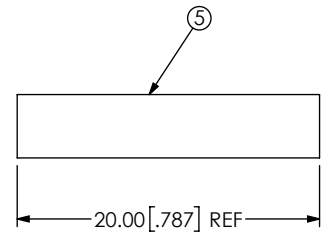
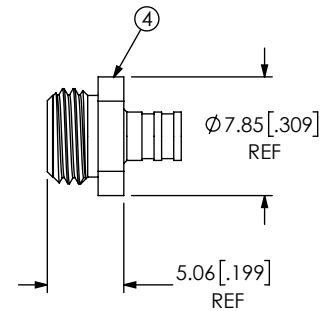
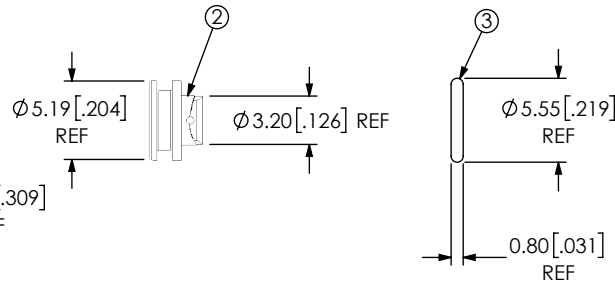
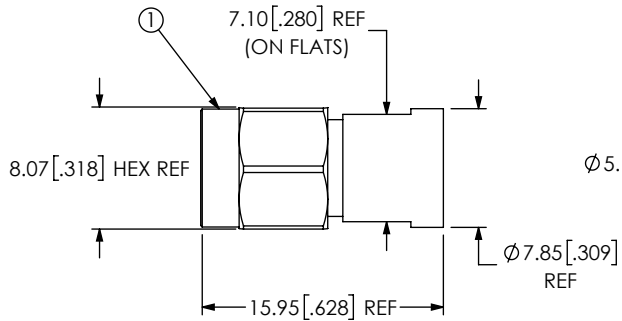
BY:EMMA CHEN 12/14/2012 SHEET 2 OF 8

PATENT NUMBER  
7,544,093



BOM		
ITEM	COMPONENT	-HP
1	SUB ASSEMBLY	SUB-292PS-J-C-HP-ST-CS3
2	GASKET	292-C-ST-GKT
3	CABLE BODY	292-C-F-ST-CS3-CBDY
4	BODY	292PS-C-P-ST-CS3-BDY
5	HEAT SHRINK	HST-0.125-02-BLK-A

FIG 4  
-92SPP SHOWN



BOM		
ITEM	COMPONENT	-HP
1	SUB ASSEMBLY	SUB-292PS-J-C-HP-ST-CS3
2	CABLE BODY	292-C-F-ST-CS3-CBDY
3	GASKET	292-C-ST-GKT
4	BODY	292PS-C-P-ST-CS3-BDY
5	HEAT SHRINK	HST-0.125-02-BLK-A

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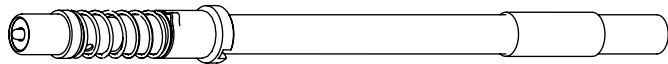
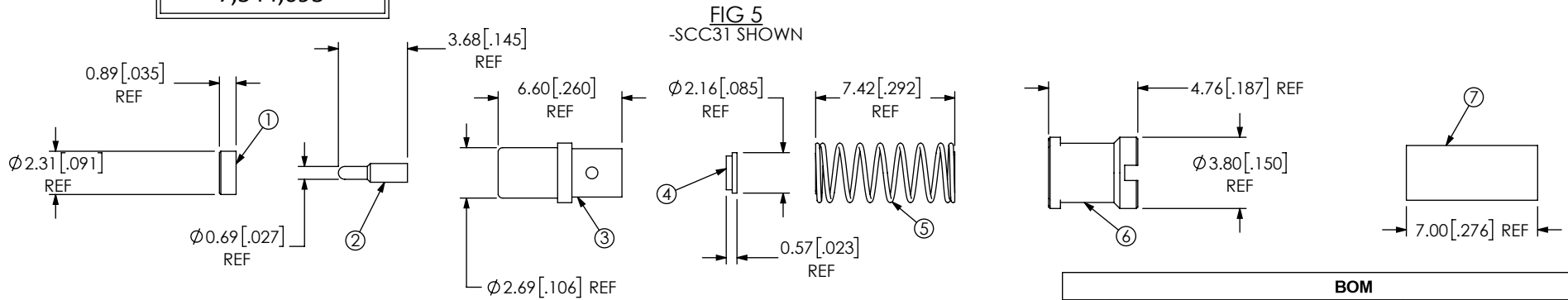


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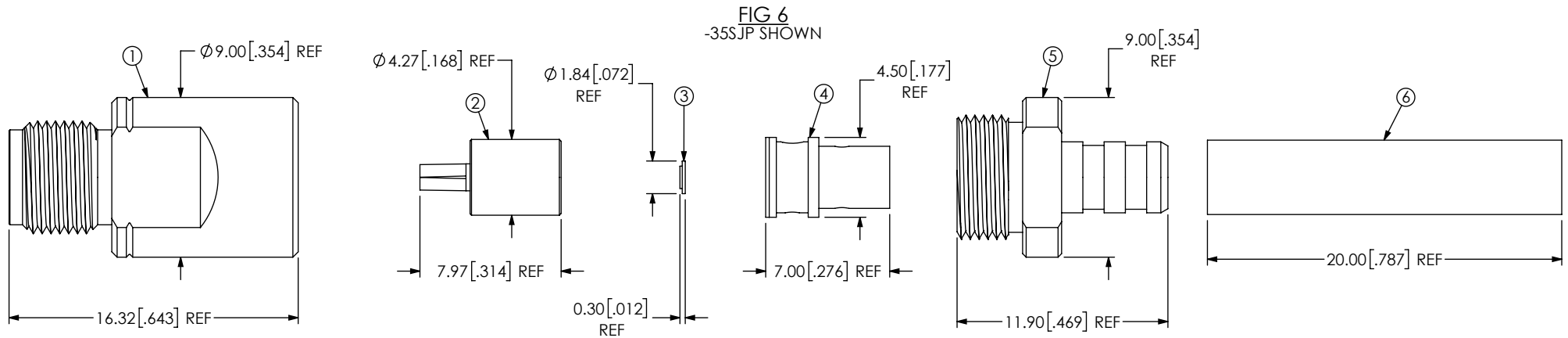
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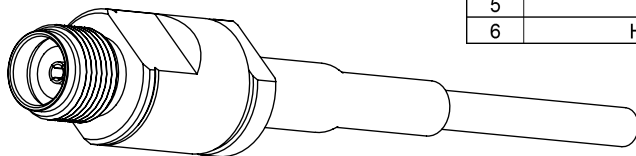
BY:EMMA CHEN 12/14/2012 SHEET 3 OF 8



BOM		
ITEM	COMPONENT	-HF
1	INSULATOR 1	PRB3-INS-003
2	PIN	PRB3-PIN-002-H
3	FERRULE	PRB3-FER-002-F
4	RETAINER	PRB3-RET-002-F
5	SPRING	PRB3-SPR-002
6	INSULATOR 2	PRB3-INS-004
7	HEAT SHRINK	HST-0.125-02-BLK



BOM		
ITEM	COMPONENT	-HP
1	SHELL	350-J-C-P-ST-CS3-SHL
2	SUB SOCKET ASSEMBLY	SUB-350-J-C-HP-ST-CS3-SKT
3	INSULATOR	350-ST-CS3-INS
4	CABLE BODY	350-C-F-ST-CS3-CBDY
5	BODY	350-C-P-ST-CS3-BDY
6	HEAT SHRINK	HST-0.125-02-BLK-A



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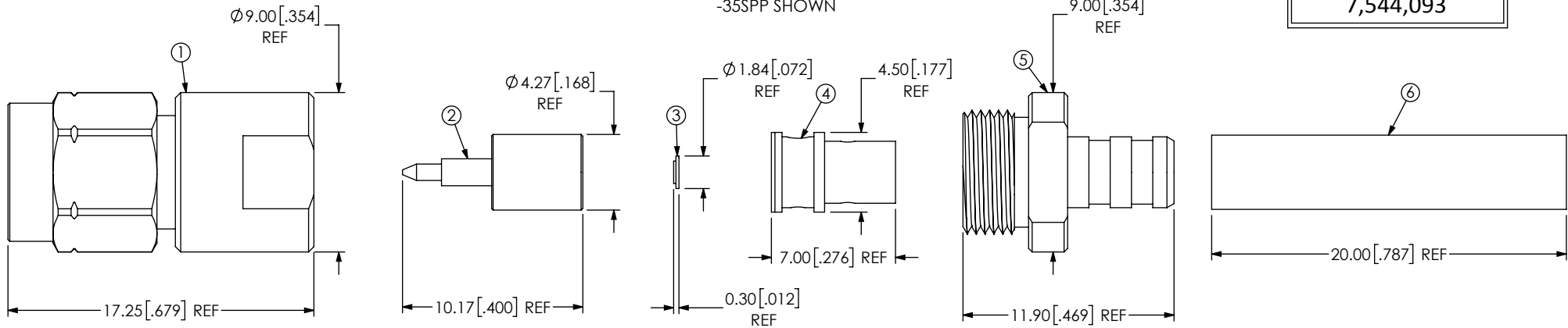
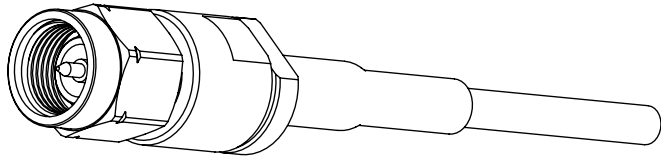


FIG 7  
-35SPP SHOWN



BOM		
ITEM	COMPONENT	-HP
1	SUB SHELL ASSEMBLY	SUB-350-P-C-P-ST-CS3-SHL
2	SUB PIN ASSEMBLY	SUB-350-P-C-HP-ST-CS3-PIN
3	INSULATOR	350-ST-CS3-INS
4	CABLE BODY	350-C-F-ST-CS3-CBDY
5	BODY	350-C-P-ST-CS3-BDY
6	HEAT SHRINK	HST-0.125-02-BLK-A

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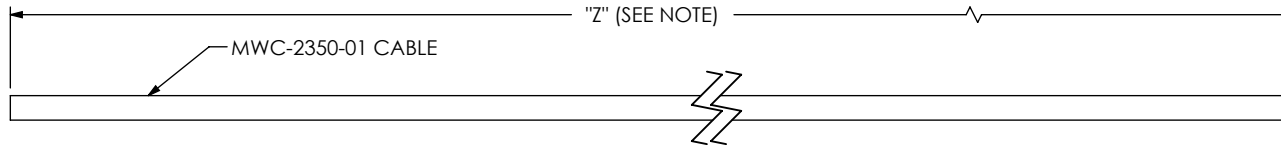
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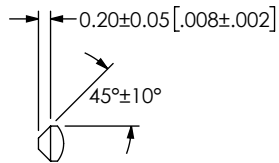
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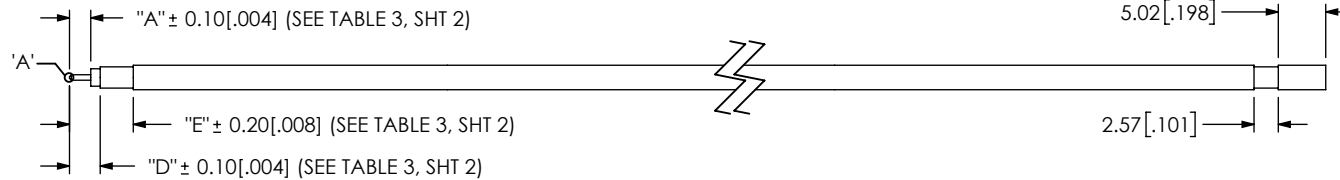
IN PROCESS 1  
CUT CABLE TO LENGTH

NOTE: "Z" = 2 \* OAL - 2\*"Y"(END 1)] (FOR -SING OR -XXXXXX OPTIONS)  
"Z" = OAL - "Y"(END 1) - "Y"(END 2) (FOR DOUBLE ENDED OPTIONS)

IN PROCESS 2  
STRIP CABLE &  
CHAMFER CENTER CONDUCTOR

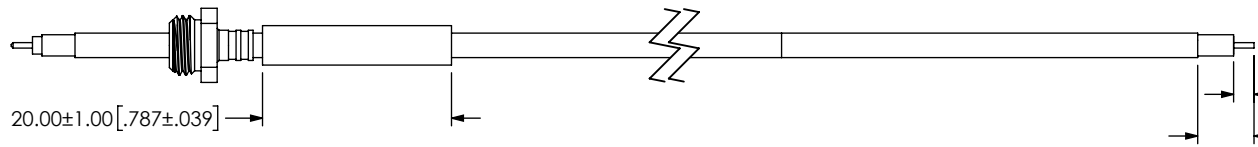


DETAIL 'A'  
SCALE 8 : 1



(Bull's Eye ®)  
IN PROCESS 2  
STRIP AND LOCATE JACKET

IN PROCESS 3  
ADD BODY & HEAT SHRINK

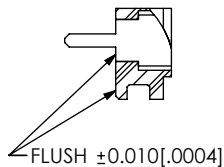


IN PROCESS 3  
STRIP AND TIN INNER CONDUCTOR,  
REMOVE CUT JACKET

IN PROCESS 4  
ADD CABLE BODY  
SOLDER CABLE TO CABLE BODY  
TRIM DIELECTRIC TO BE FLUSH WITH BODY



IN PROCESS 4  
ADD RETAINER, SPRING  
AND HEAT SHRINK TUBE



DETAIL 'B'  
SCALE 3 : 1

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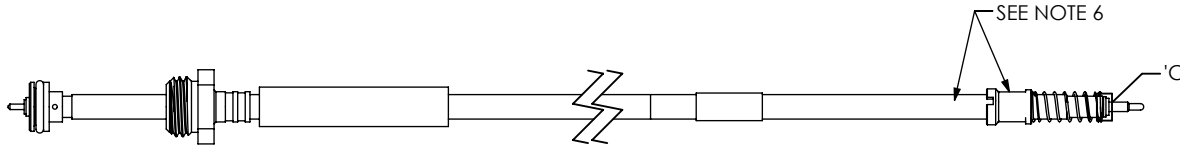
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DWG. NO. RF23S-XXXXX-XXXXXX-XXXX

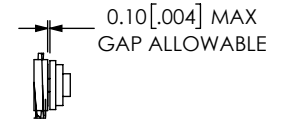
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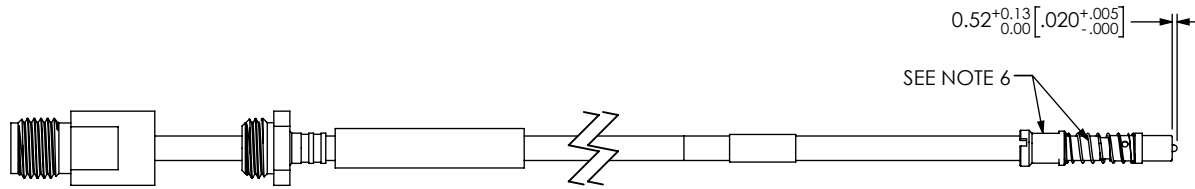
**IN PROCESS 5**  
ADD GASKET



**IN PROCESS 5**  
ADD INSULATOR 2 AND  
INDUCTIVE SOLDER PIN



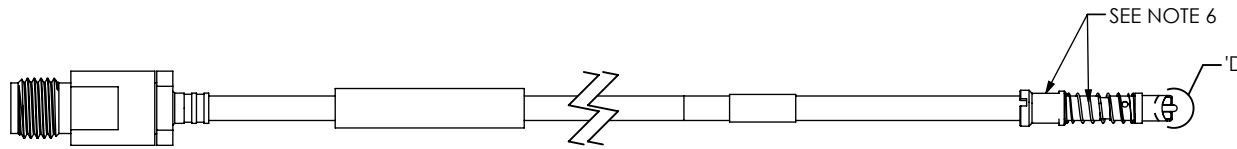
**IN PROCESS 6**  
ADD SUB ASSEMBLY



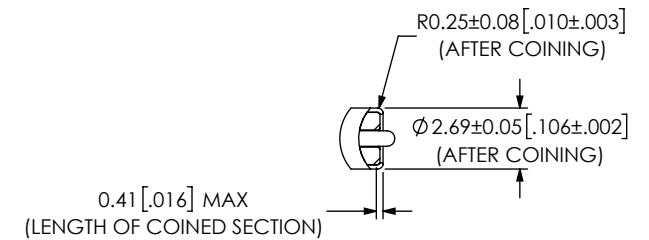
**DETAIL 'C'**  
SCALE 3 : 1

**IN PROCESS 6**  
ADD AND SOLDER FERRULE

**IN PROCESS 7**  
TORQUE SUB ASSEMBLY TO CABLE BODY,  
20~30 IN-LBS

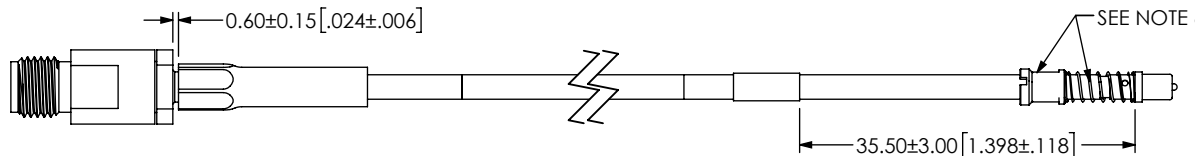


**IN PROCESS 7**  
ADD INSULATOR 1 AND COIN END



**DETAIL 'D'**  
SCALE 3 : 1

**IN PROCESS 8**  
ACTIVATE HEAT SHRINK



**IN PROCESS 8**  
ACTIVATE HEAT SHRINK

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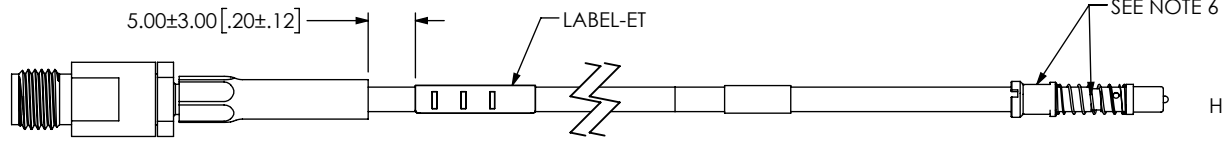
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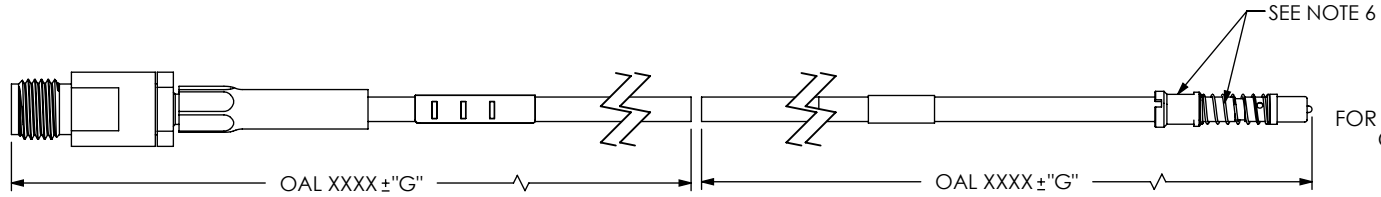
DESCRIPTION:	RF23S CABLE ASSEMBLY
DWG. NO.	RF23S-XXXXX-XXXXXX-XXXX
BY:EMMA CHEN 12/14/2012	SHEET 7 OF 8

IN PROCESS 9  
PERFORM ELECTRICAL  
HIPOT & ADD LABEL NEAR END 1  
OR ON BOTH ENDS IF -SING



IN PROCESS 9  
PERFORM ELECTRICAL  
HI-POT & ADD LABEL NEAR END 1  
OR ON BOTH ENDS IF -SING

IN PROCESS 10  
FOR -SING OR -XXXXXX END 2  
OPTION, CUT IN HALF



IN PROCESS 10  
FOR -SING OR -XXXXXX END 2  
OPTION, CUT IN HALF

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SHEET SCALE: 5:4





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