



**THE DATASHEET OF  
RF178-01BJ1-02SJ1-2500**



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

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

DO NOT SCALE FROM THIS PRINT

RF178-XXXXX-XXXXXX-XXXX

CABLE CALLOUT  
178: RG178 CABLE (CCA-178)

OVERALL ASSEMBLY LENGTH (OAL)  
XXXX (MILLIMETERS) (0100 MIN)  
(SEE NOTE 8)

END 1 CONNECTOR  
(SEE TABLE 3, SHEET 2)

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

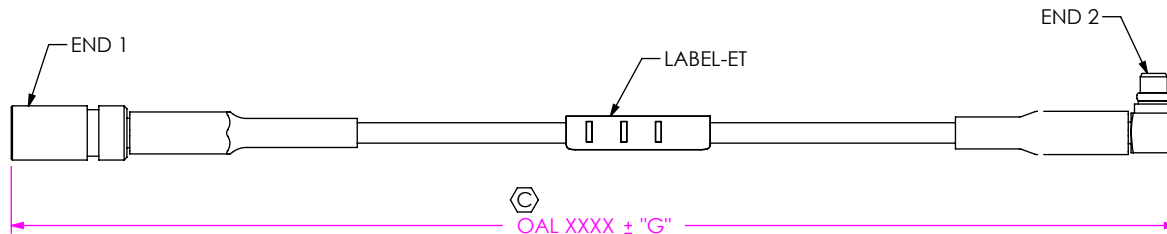


FIG 1  
RF178-02SJX-03RPX-XXXX SHOWN

OVERALL LENGTH	"G"
0100-0200 [3.92-7.87]	+3.0 [.12]/-0.0 [.00]
0200-0500 [7.87-19.69]	+5.0 [.20]/-0.0 [.00]
0500-1000 [19.69-43.30]	+10.0 [.40]/-0.0 [.00]

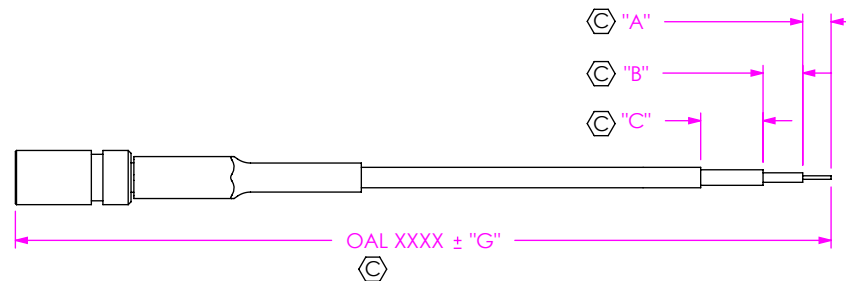


FIG 1  
RF178-02SJX-350969-XXXX SHOWN (SEE NOTE 5 & 7)

"C" FORMAT: X.X  
"B" FORMAT: X.X  
"A" FORMAT: X.X

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

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UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN  
MILLIMETERS [INCHES].  
TOLERANCES ARE:  
DECIMALS ANGLES  
.X: ±0.3 [.01] 2°  
.XX: ±0.13 [.005]  
.XXX: ±0.051 [.0020]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:2  
NUTS, LOCK WASHERS, COUPLING NUTS,  
SHELLS, FERRULES, CONTACTS, CAPS: COPPER ALLOY  
INSULATORS: PTFE  
GASKETS: SILICONE  
C-RINGS, FLAT WASHERS: FE  
SPRING WASHERS: STAINLESS STEEL



520 PARK EAST BLVD. NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION: RG178 CABLE ASSEMBLY  
DWG. NO. RF178-XXXXX-XXXXXX-XXXX  
BY: TIM P. 5/6/2005 SHEET 1 OF 12

NOTES:

- ⊕ REPRESENTS A CRITICAL DIMENSION
- ASSEMBLY TO BE 100% TESTED FOR OPENS, SHORTS & HI-POT TESTED (PER TABLE 3, AC OR DC), THE HI-POT VOLTAGE FOR THE ASSEMBLY SHOULD BE SET TO THE END OPTION WITH THE LOWEST TEST VOLTAGE RATING.
- AFTER FINAL ELECTRICAL TEST, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL-ET
- FINISHED ASSEMBLIES TO BE PACKAGED PER PACKAGING STANDARD CO-RF-WI-3040-M. ASSEMBLIES WITH LOCKWASHERS, NUTS, AND GASKETS TO BE SHIPPED KITTED AS ONE ASSEMBLY PER BAG, UNASSEMBLED.
- DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm
- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
- FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA

TABLE 1

END OPTION	SUBTRACT OR	STRIP DIMENSIONS					HI POT	
		"Y"	"A"	"D"	"E"	"F"	"DC"	"AC"
-01BJ1	9.0 [0.35]	2.5 [0.10]	6.7 [0.26]	13.1 [0.52]	3.45 [0.136]	1000	1000	
-01BR1	9.4 [0.37]	2.5 [0.10]	6.7 [0.26]	13.1 [0.52]	3.45 [0.136]	1000	1000	
-01SB1	9.0 [0.35]	2.5 [0.10]	6.7 [0.26]	13.1 [0.52]	3.45 [0.136]	1000	1000	
-01SR1	9.4 [0.37]	2.5 [0.10]	6.7 [0.26]	13.1 [0.52]	3.45 [0.136]	1000	1000	
-02SJ1	6.1 [0.24]	3.5 [0.14]	4.4 [0.17]	11.3 [0.44]	3.45 [0.136]	1000	1000	
-02RP1	1.9 [0.07]	2.1 [0.08]	4.5 [0.18]	9.1 [0.36]	2.79 [0.110]	1000	1000	
-02SP1	7.4 [0.29]	1.8 [0.07]	1.8 [0.07]	9.0 [0.35]	3.45 [0.136]	630	1000	
-03SP1	4.2 [0.17]	2.0 [0.08]	4.6 [0.18]	9.4 [0.37]	2.79 [0.110]	630	500	
-03RPX	1.5 [0.06]	1.8 [0.07]	2.9 [0.11]	7.9 [0.31]	2.79 [0.110]	1000	500	
-04SP1	10.7 [0.42]	3.0 [0.12]	5.0 [0.20]	11.6 [0.46]	3.45 [0.136]	1000	1000	
-04SP2								
-04BJ2	15.0 [0.59]	3.0 [0.12]	5.8 [0.23]	12.8 [0.50]	3.45 [0.136]	1000	1000	
-05BJ3	15.0 [0.59]	3.0 [0.12]	5.8 [0.23]	12.8 [0.50]	3.45 [0.136]	1000	1000	
-06BJ2	17.3 [0.68]	4.5 [0.18]	8.7 [0.34]	16.5 [0.65]	4.52 [0.178]	1000	1000	
-07BJ2	7.7 [0.30]	3.0 [0.12]	4.4 [0.17]	10.5 [0.41]	3.45 [0.136]	1000	1000	
-07BJ4								
*-SING	0.0 [0.00]	-	-	-	N/A	1000	N/A	
*-XXXXXX	0.0 [0.00]	"A"	"A"+"B"	"A"+"B"+"C"	N/A	1000	N/A	

\* = END 2 OPTION ONLY

TABLE 3

END OPTION	SERIES	GENDER	CONFIGURATION	PLATING			FIGURE
				CENTER CONTACT	OUTER CONTACT	OTHER COMPONENTS	
-01BJ1	SMA	JACK	STRAIGHT BULKHEAD	30u" GOLD	3u" GOLD	3u" GOLD	SHT 3, FIG 3
-01BR1	SMA	REVERSED POLARITY JACK	STRAIGHT BULKHEAD	30u" GOLD	3u" GOLD	3u" GOLD	SHT 3, FIG 4
-01SB1	SMA	JACK	STRAIGHT BULKHEAD SEALED	30u" GOLD	3u" GOLD	3u" GOLD	SHT 4, FIG 5
-01SR1	SMA	REVERSED POLARITY JACK	STRAIGHT BULKHEAD SEALED	30u" GOLD	3u" GOLD	3u" GOLD	SHT 4, FIG 6
-02SJ1	MCX	JACK	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	SHT 5, FIG 7
-02RP1	MCX	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	3u" GOLD	SHT 5, FIG 8
-02SP1	MCX	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	SHT 6, FIG 9
-03SP1	MMCX	PLUG	STRAIGHT	30u" GOLD	3u" GOLD	3u" GOLD	SHT 6, FIG 10
-03RP1	MMCX	PLUG	RIGHT ANGLE	30u" GOLD	3u" GOLD	3u" GOLD	SHT 7, FIG 11
-04SP2	BNC	PLUG	STRAIGHT	30u" GOLD	100u" NICKEL	100u" NICKEL	SHT 7, FIG 12
-04SP3	BNC	PLUG	STRAIGHT	10u" GOLD	100u" NICKEL	100u" NICKEL	
-04BJ2	BNC	JACK	STRAIGHT BULKHEAD	30u" GOLD	100u" NICKEL	100u" NICKEL	
-05BJ3	TNC	JACK	STRAIGHT BULKHEAD	30u" GOLD	100u" NICKEL	100u" NICKEL	SHT 8, FIG 13
-06BJ2	NTPE	JACK	STRAIGHT BULKHEAD	30u" GOLD	100u" NICKEL	100u" NICKEL	SHT 9, FIG 16
-07BJ2	SMB	JACK	STRAIGHT BULKHEAD	30u" GOLD	100u" NICKEL	100u" NICKEL	SHT 10, FIG 17
-07BJ4	SMB	JACK	STRAIGHT BULKHEAD	10u" GOLD	3u" GOLD	100u" NICKEL	
*-SING	SINGLE ENDED	-	-	-	-	-	-
*-XXXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 2

\* = END 2 OPTION ONLY

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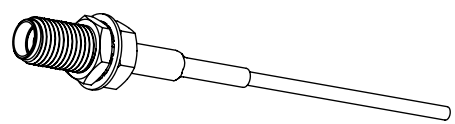
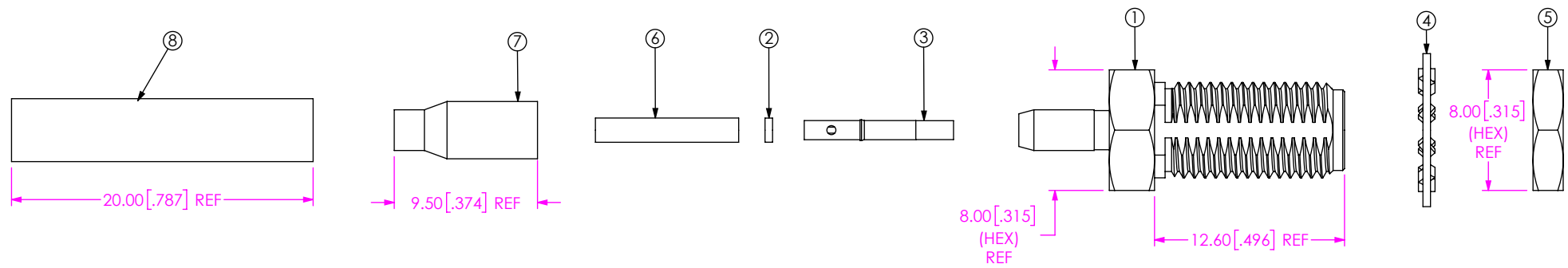
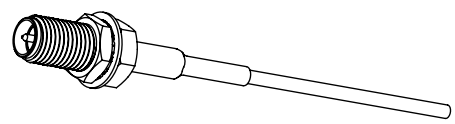
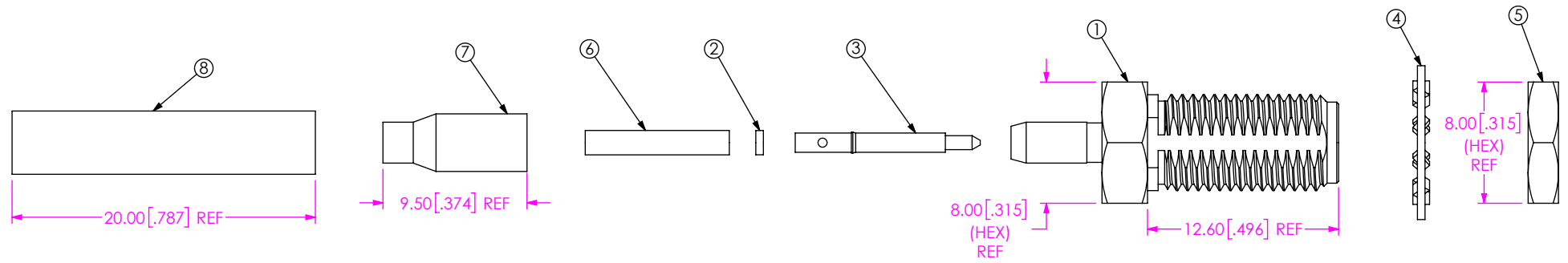
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	<p>DESCRIPTION:</p> <p style="text-align: center;">RG178 CABLE ASSEMBLY</p>
	<p>DWG. NO.</p> <p style="text-align: center;">RF178-XXXXX-XXXXXX-XXXX</p>
<p>BY: TIM P.      5/6/2005      SHEET 2 OF 12</p>	

FIG 3  
-01BJ1 SHOWN



BOM		
ITEM	COMPONENT	-01BJ1
1	SUB-ASSEMBLY	SUB-SMA-J-C-F-ST-BH1
2	INSULATOR	SMA-INS-001
3	PIN	SMA-SKT-002-H
4	LOCK WASHER	SMA-LWAS-001-F
5	NUT	SMA-NUT-001-F
6	INNER FERRULE	SMA-FER-003-N
7	OUTER FERRULE	MCX-FER-004-F
8	HEAT SHRINK	HST-0.125-02-BLK

FIG 4  
-01BR1 SHOWN



BOM		
ITEM	COMPONENT	-01BR1
1	SUB-ASSEMBLY	SUB-SMA-J-C-F-ST-BH1
2	INSULATOR	SMA-INS-001
3	PIN	SMA-PIN-005-H
4	LOCK WASHER	SMA-LWAS-001-F
5	NUT	SMA-NUT-001-F
6	INNER FERRULE	SMA-FER-003-N
7	OUTER FERRULE	MCX-FER-004-F
8	HEAT SHRINK	HST-0.125-02-BLK

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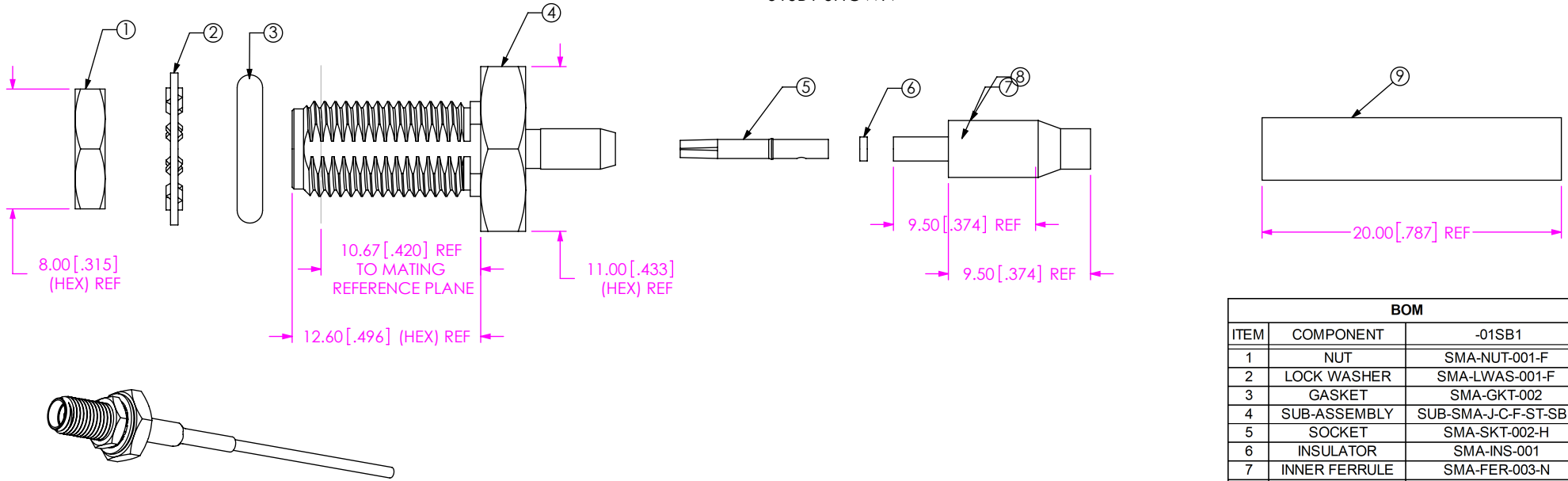
SHEET SCALE: 5:2



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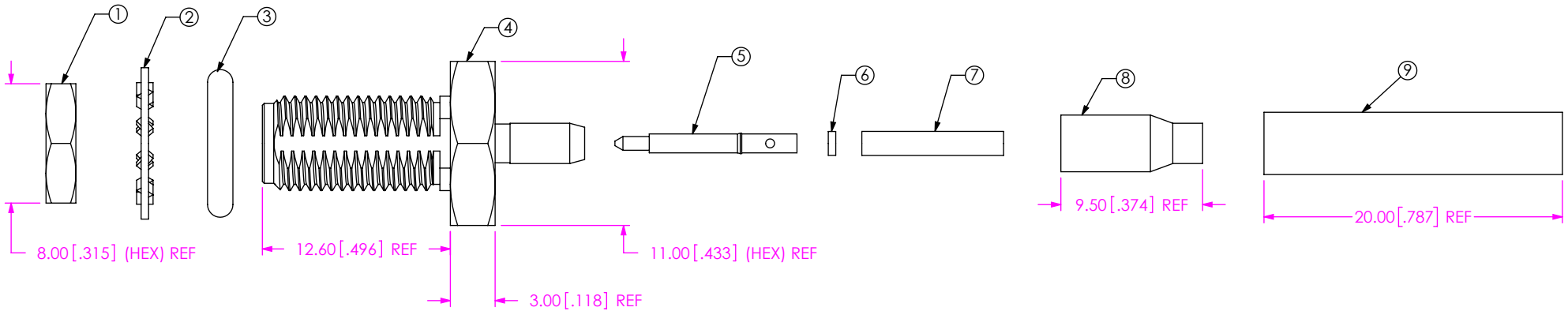
DESCRIPTION:	RG178 CABLE ASSEMBLY
DWG. NO.	RF178-XXXXX-XXXXX-XXXX
BY: TIM P.	5/6/2005 SHEET 3 OF 12

FIG 5  
-01SB1 SHOWN



BOM		
ITEM	COMPONENT	-01SB1
1	NUT	SMA-NUT-001-F
2	LOCK WASHER	SMA-LWAS-001-F
3	GASKET	SMA-GKT-002
4	SUB-ASSEMBLY	SUB-SMA-J-C-F-ST-SB1
5	SOCKET	SMA-SKT-002-H
6	INSULATOR	SMA-INS-001
7	INNER FERRULE	SMA-FER-003-N
8	OUTER FERRULE	MCX-FER-004-F
9	HEAT SHRINK	HST-0.125-02-BLK

FIG 6  
-01SR1 SHOWN



BOM		
ITEM	COMPONENT	-01SR1
1	NUT	SMA-NUT-001-F
2	LOCK WASHER	SMA-LWAS-001-F
3	GASKET	SMA-GKT-002
4	SUB-ASSEMBLY	SUB-SMA-J-C-F-ST-SB1
5	PIN	SMA-PIN-005-H
6	INSULATOR	SMA-INS-001
7	INNER FERRULE	SMA-FER-003-N
8	OUTER FERRULE	MCX-FER-004-F
9	HEAT SHRINK	HST-0.125-02-BLK

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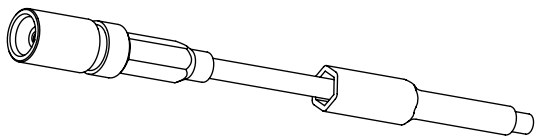
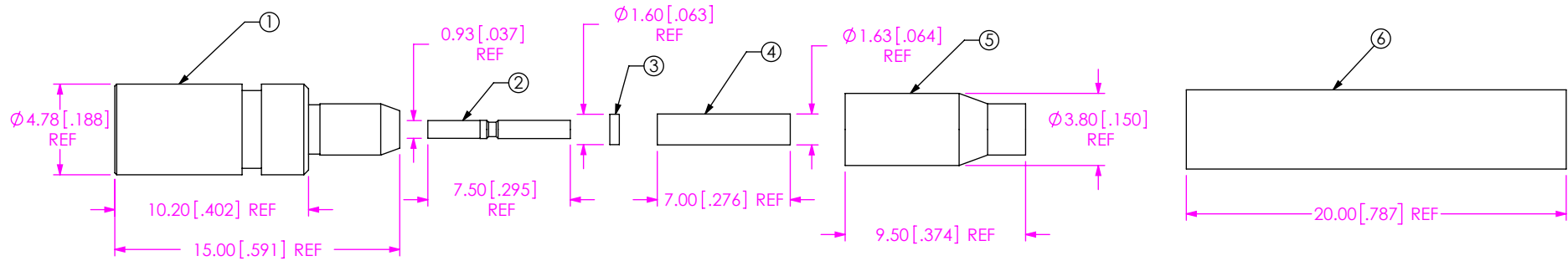
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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION: RG178 CABLE ASSEMBLY

DWG. NO. RF178-XXXXX-XXXXX-XXXX

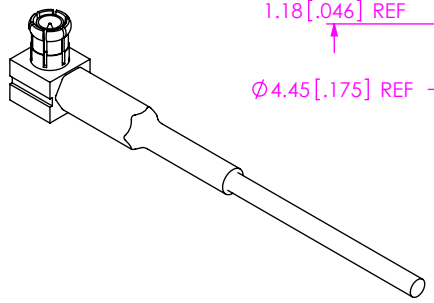
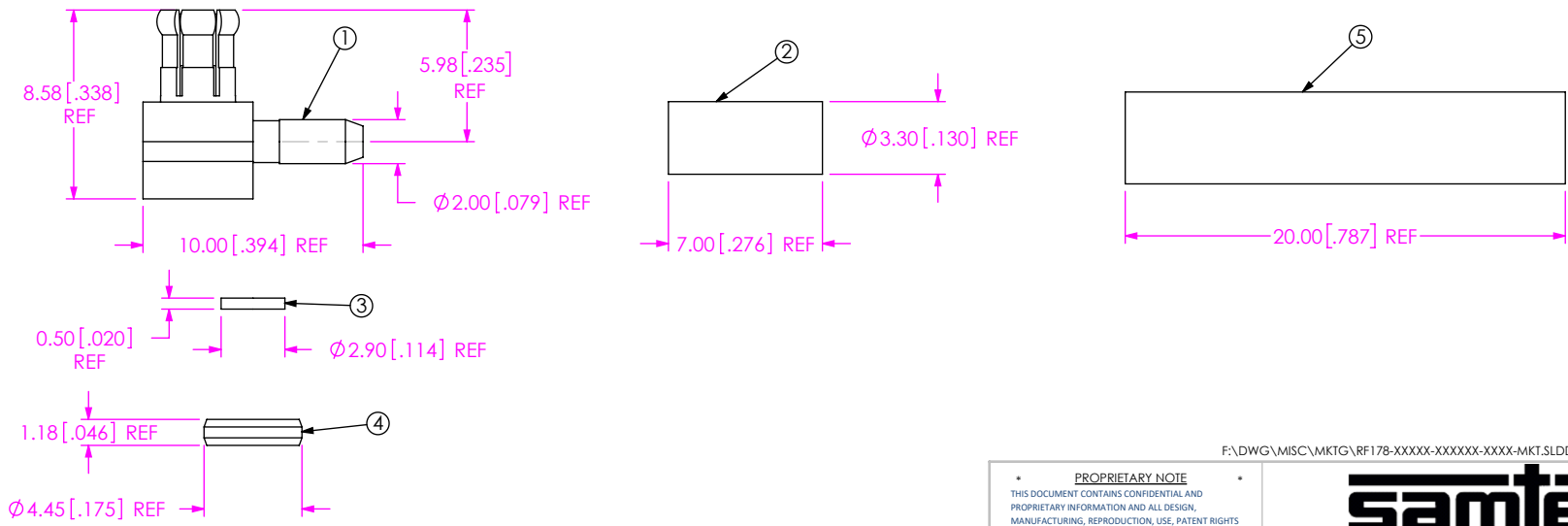
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FIG 7  
-02SJ1 SHOWN



BOM		
ITEM	COMPONENT	-02SJ1
1	SUB ASSEMBLY	SUB-MCX-J-C-F-ST-CA2
2	SOCKET	MCX-SKT-002-H
3	INSULATOR	MCX-INS-002
4	INNER FERRULE	MCX-FER-003-F
5	FERRULE	MCX-FER-004-F
6	HEAT SHRINK	HST-0.125-02-BLK

FIG8  
-02RP1 SHOWN



BOM		
ITEM	COMPONENT	-02RP1
1	SUB ASSEMBLY	SUB-MCX-P-C-H-RA-CA2
2	FERRULE	MCX-FER-005-F
3	INSULATOR	MCX-INS-001
4	CAP	MCX-CAP-002-F
5	HEAT SHRINK	HST-0.125-02-BLK

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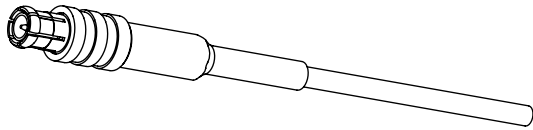
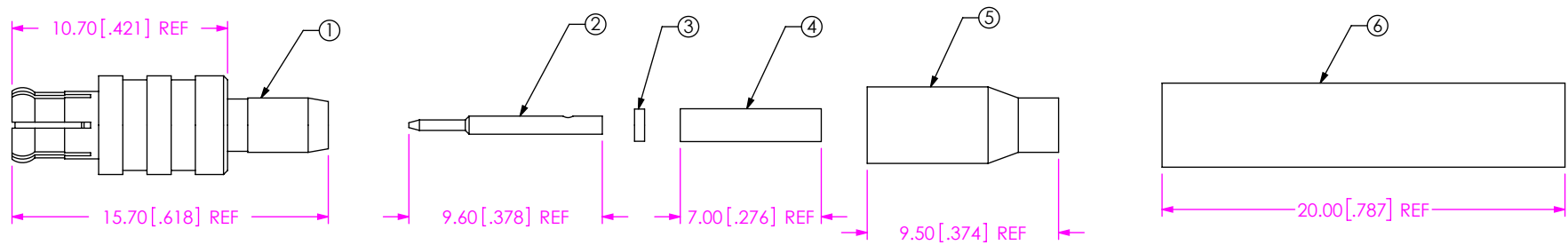
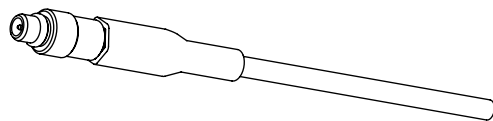
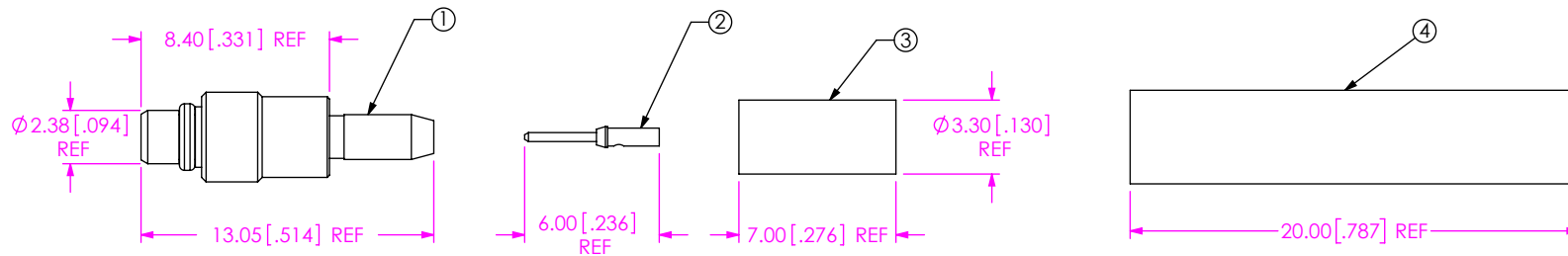
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	DESCRIPTION: RG178 CABLE ASSEMBLY		
	DWG. NO. RF178-XXXX-XXXX-XXXX		
	BY: TIM P.	5/6/2005	SHEET 5 OF 12

FIG 9  
-02SP1 SHOWN



BOM		
ITEM	COMPONENT	-02SP1
1	SUB ASSEMBLY	SUB-MCX-P-C-F-ST-CA1
2	PIN	MCX-PIN-002-H
3	INSULATOR	MCX-INS-002
4	INNER FERRULE	MCX-FER-003-F
5	OUTER FERRULE	MCX-FER-004-F
6	HEAT SHRINK	HST-0.125-02-BLK

FIG 10  
-03SP1 SHOWN



BOM		
ITEM	COMPONENT	-03SP1
1	SUB ASSEMBLY	SUB-MMCX-P-C-F-ST-CA2
2	PIN	MMCX-PIN-002-H
3	OUTER FERRULE	MCX-FER-005-F
4	HEAT SHRINK	HST-0.125-02-BLK

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SHEET SCALE: 3:1



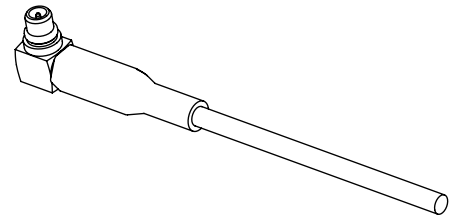
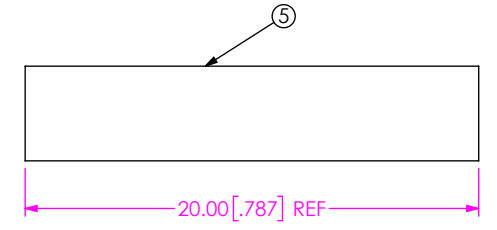
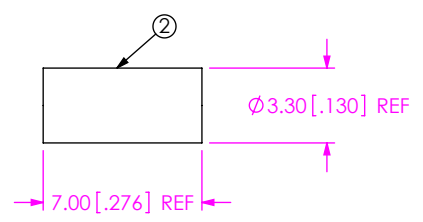
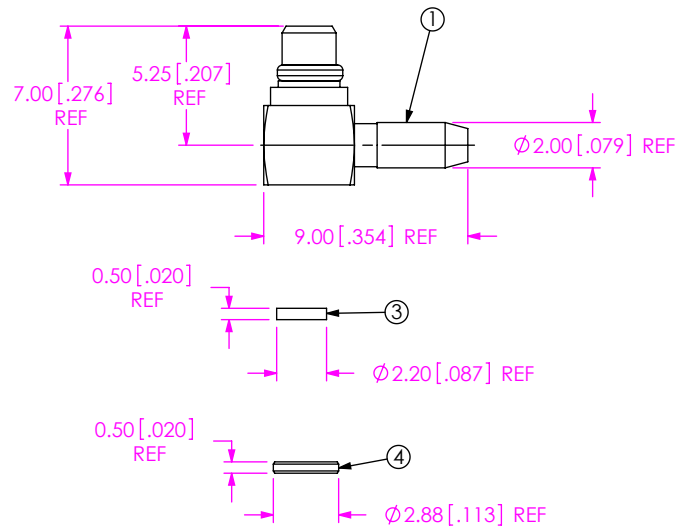
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DESCRIPTION: RG178 CABLE ASSEMBLY

DWG. NO. RF178-XXXXX-XXXXXX-XXXX

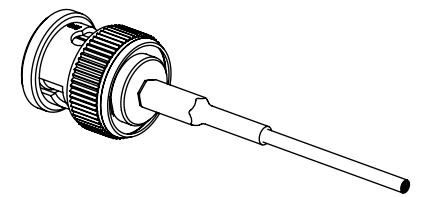
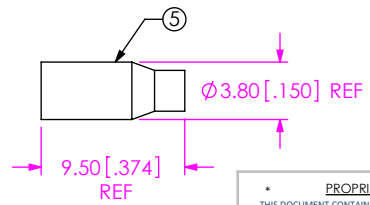
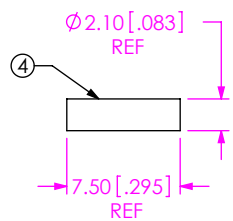
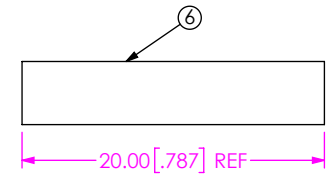
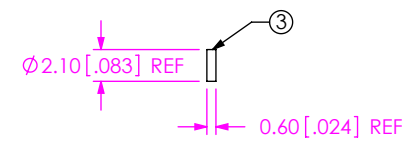
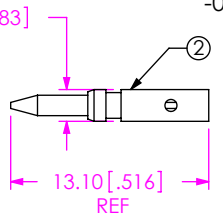
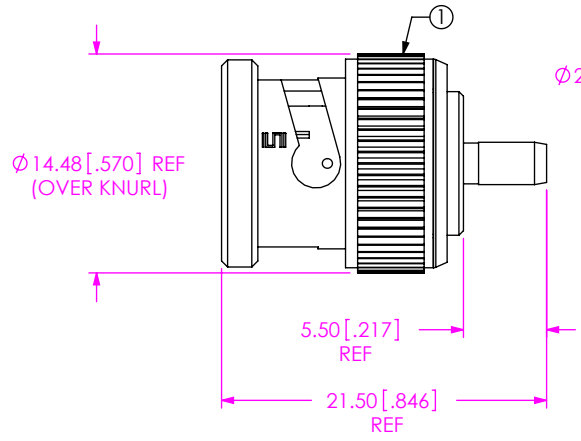
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FIG 11  
-03RP1 SHOWN



BOM		
ITEM	COMPONENT	-03RP1
1	SUB ASSEMBLY	SUB-MMCX-P-C-HF-RA-CA2
2	FERRULE	MCX-FER-005-F
3	INSULATOR	MMCX-INS-001
4	CAP	MMCX-CAP-001-F
5	HEAT SHRINK	HST-0.125-02-BLK

FIG 12  
-04SPX SHOWN



F:\DWG\MISC\MKTG\RF178-XXXXX-XXXXX-XXXX-MKT.SLDDRW

BOM			
ITEM	COMPONENT	-04SP2	-04SP3
1	SUB ASSEMBLY	SUB-BNC5-P-C-N-ST-CA2	
2	PIN	BNC5-P-C-H-ST-CA2-PIN	BNC5-P-C-G-ST-CA2-PIN
3	INSULATOR	BNC5-INS-002	
4	INNER FERRULE	MCX-FER-011-N	
5	FERRULE	MCX-FER-004-N	
6	HEAT SHRINK	HST-0.125-02-BLK	

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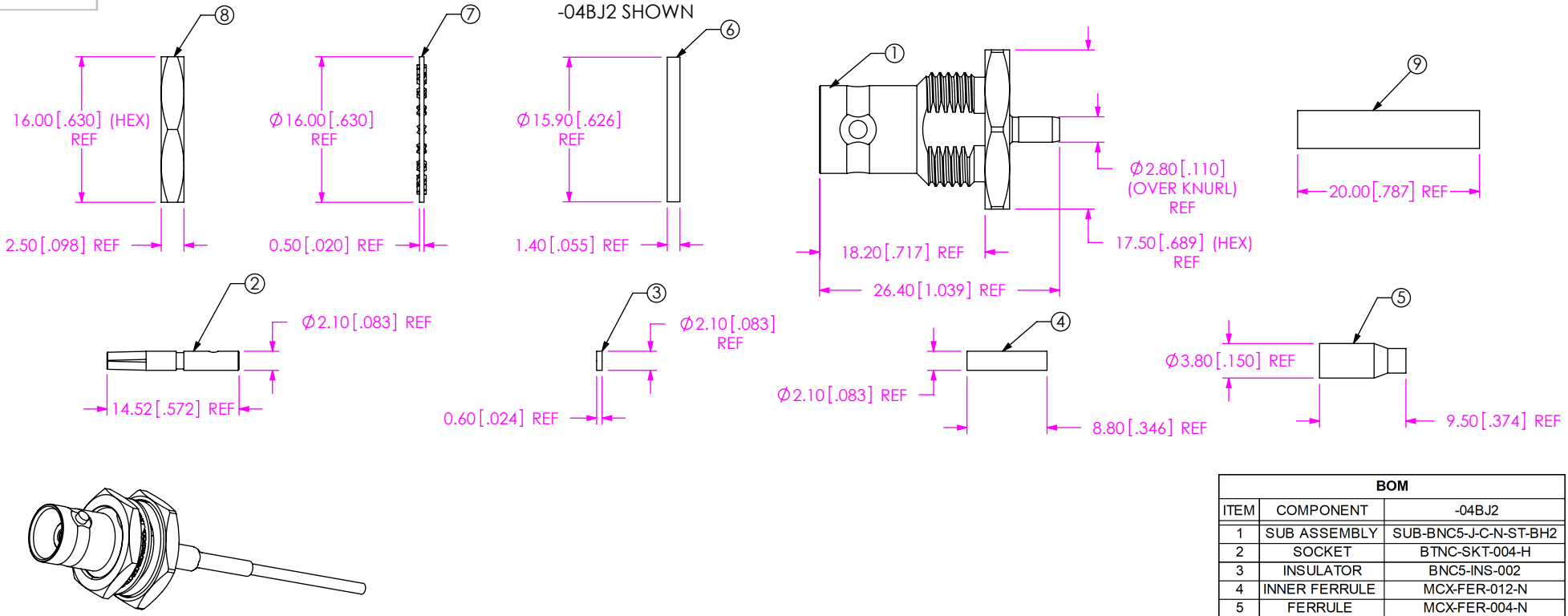
**samtec**  
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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
RG178 CABLE ASSEMBLY

DWG. NO.  
**RF178-XXXXX-XXXXXX-XXXX**

BY: TIM P. 5/6/2005 SHEET 7 OF 12

FIG 13  
-04BJ2 SHOWN



BOM		
ITEM	COMPONENT	-04BJ2
1	SUB ASSEMBLY	SUB-BNC5-J-C-N-ST-BH2
2	SOCKET	BTNC-SKT-004-H
3	INSULATOR	BNC5-INS-002
4	INNER FERRULE	MCX-FER-012-N
5	FERRULE	MCX-FER-004-N
6	GASKET	BTNC-GKT-001
7	LOCK WASHER	BTNC-LWAS-001-N
8	HEX NUT	BTNC-NUT-001-N
9	HEAT SHRINK	HST-0.125-02-BLK

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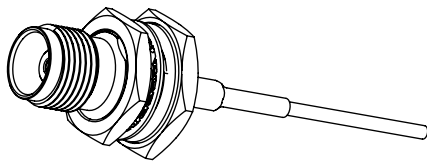
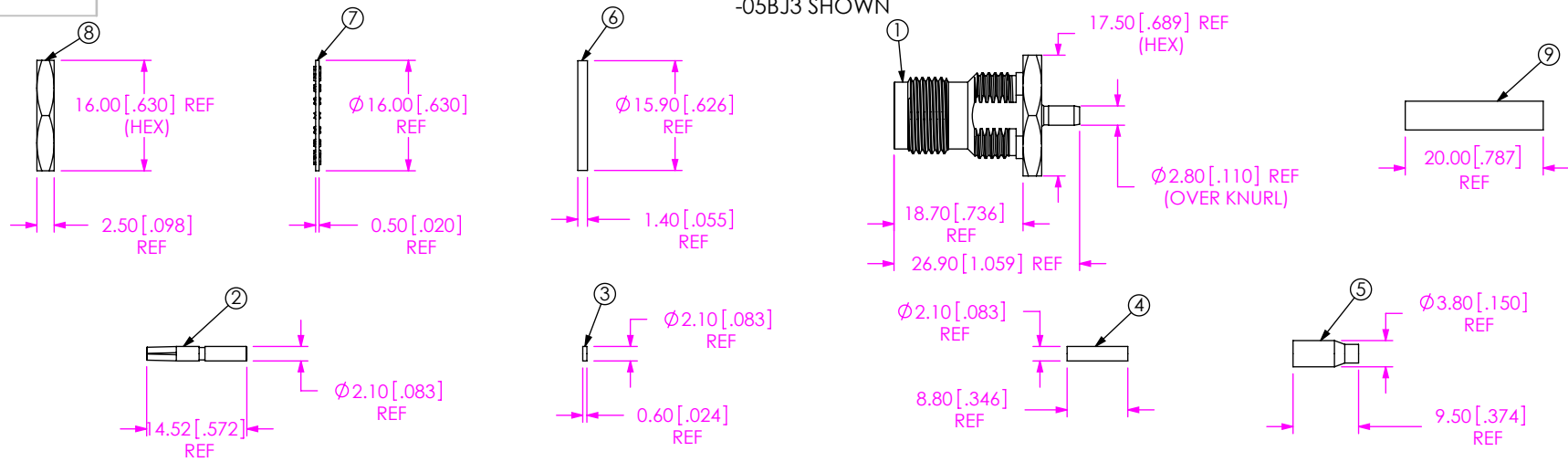
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 SHEET SCALE: 2:1



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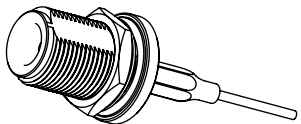
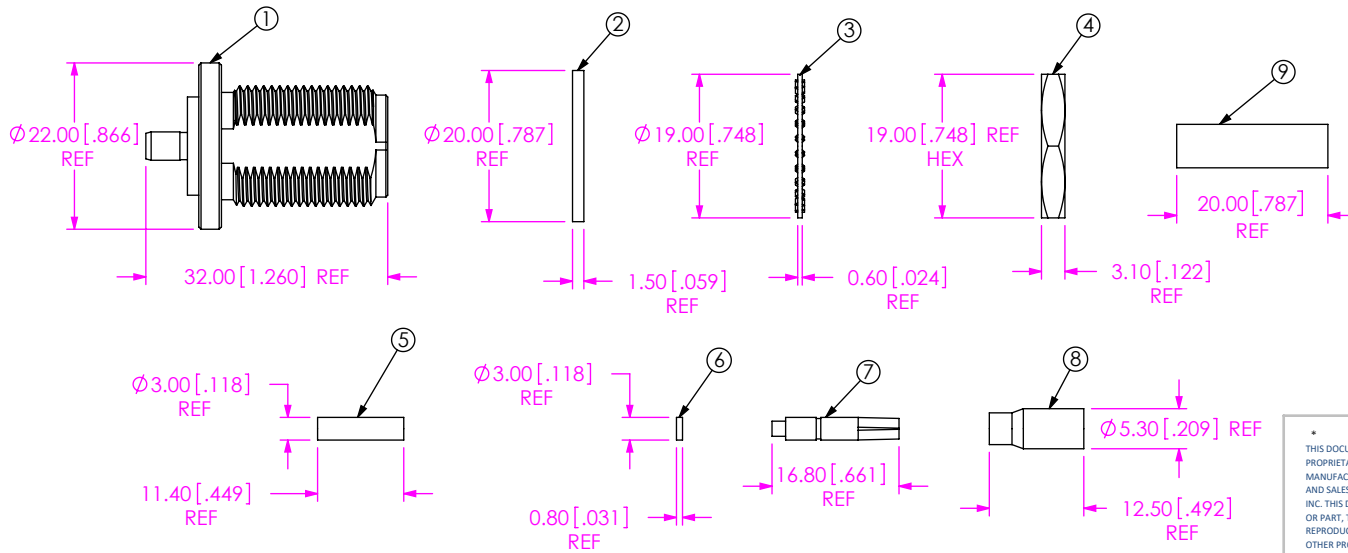
DESCRIPTION: RG178 CABLE ASSEMBLY  
 DWG. NO. RF178-XXXXX-XXXXXX-XXXX  
 BY: TIM P. 5/6/2005 SHEET 8 OF 12

FIG 15  
-05BJ3 SHOWN



BOM		
ITEM	COMPONENT	-05BJ3
1	SUB ASSEMBLY	SUB-TNC-J-C-N-ST-BH2
2	SOCKET	BTNC-SKT-004-H
3	INSULATOR	BNC5-INS-002
4	INNER FERRULE	MCX-FER-012-N
5	FERRULE	MCX-FER-004-N
6	GASKET	BTNC-GKT-001
7	LOCK WASHER	BTNC-LWAS-001-N
8	HEX NUT	BTNC-NUT-001-N
9	HEAT SHRINK	HST-0.125-02-BLK

FIG 16  
-06BJ2 SHOWN



BOM		
ITEM	COMPONENT	-06BJ2
1	SUB ASSEMBLY	SUB-NTPE-J-C-N-ST-BH2
2	GASKET	NTPE-GKT-001
3	LOCK WASHER	NTPE-LWAS-001-N
4	HEX NUT	NTPE-NUT-001-N
5	INNER FERRULE	MCX-FER-013-N
6	INSULATOR	BNC5-INS-003
7	SOCKET	NTPE-J-C-H-ST-BH2-SKT
8	FERRULE	BNC-FER-002-N
9	HEAT SHRINK	HST-0.187-02-BLK

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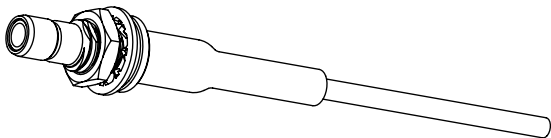
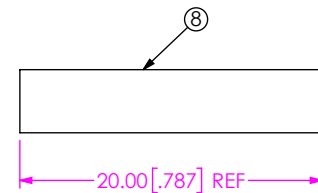
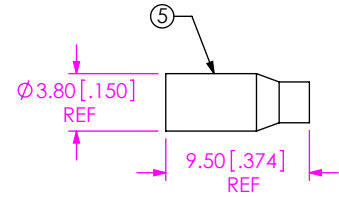
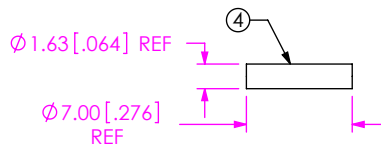
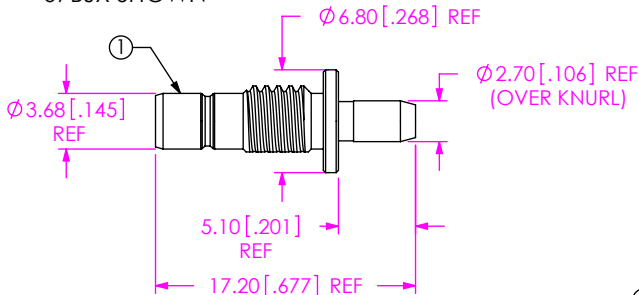
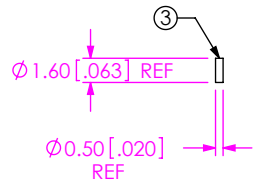
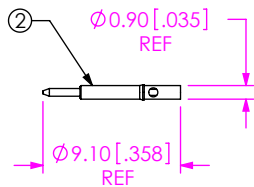
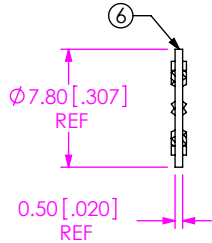
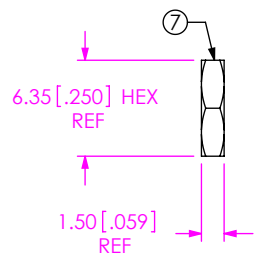
SHEET SCALE: 1:1



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e-Mail info@SAMTEC.com code 55322

DESCRIPTION: RG178 CABLE ASSEMBLY  
DWG. NO. RF178-XXXXX-XXXXXX-XXXX  
BY: TIM P. 5/6/2005 SHEET 9 OF 12

FIG 17  
-07BJX SHOWN




BOM			
ITEM	COMPONENT	-07BJ2	-07BJ4
1	SUB ASSEMBLY	SUB-SMB5-J-C-F-ST-CA2	SUB-SMB5-J-C-F-ST-CA2
2	PIN	SMB5-PIN-003-H	SMB5-PIN-003-G
3	INSULATOR	MCX-INS-002	
4	INNER FERRULE	MCX-FER-003-F	MCX-FER-003-F
5	FERRULE	MCX-FER-004-F	MCX-FER-004-F
6	LOCK WASHER	SMB-LWAS-001-F	SMB-LWAS-001-F
7	HEX NUT	SMB5-NUT-001-F	SMB5-NUT-001-F
8	HEAT SHRINK	HST-0.125-02-BLK	

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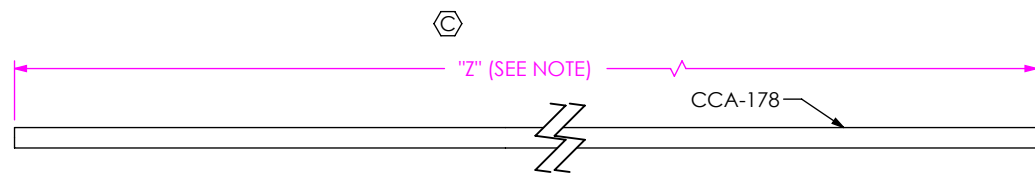
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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION: RG178 CABLE ASSEMBLY

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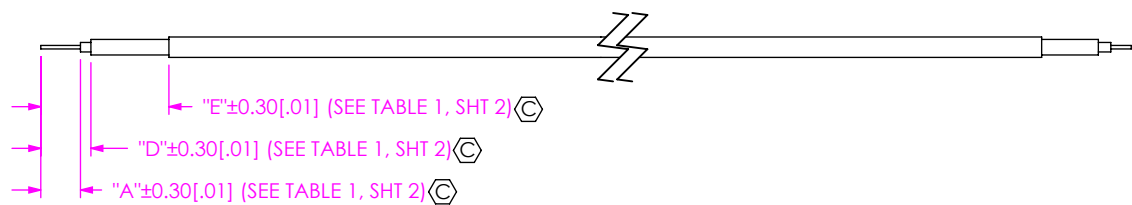
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**IN-PROCESS 1**  
CUT CABLE TO LENGTH



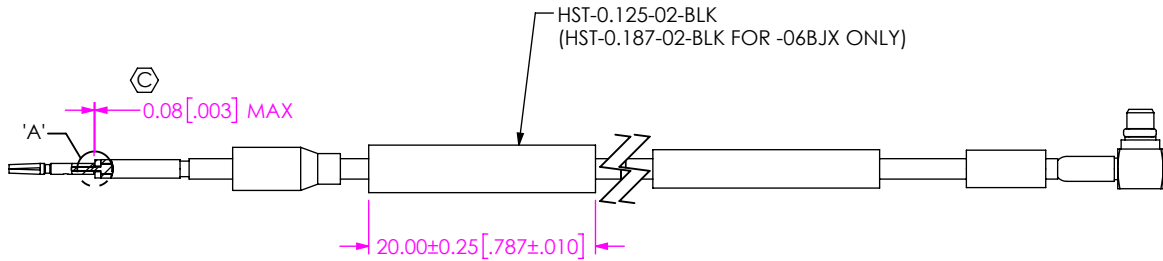
NOTE:  $"Z" = 2 * OAL - 2 * ["Y" (END 1)]$  (FOR -SING OR -XXXXX OPTIONS)  
 $"Z" = OAL - "Y" (END 1) - "Y" (END 2)$  (FOR DOUBLE ENDED OPTIONS)

**IN-PROCESS 2**  
STRIP AND TIN INNER CONDUCTOR



**STRAIGHT**

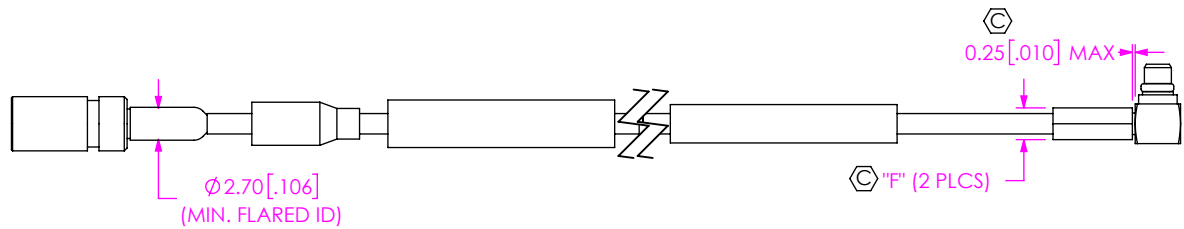
**IN-PROCESS 3**  
ADD HEAT SHRINK TUBE AND OUTER FERRULE, INNER FERRULE AND WASHER IF APPLICABLE, SOLDER SIGNAL PIN



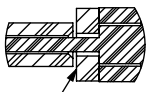
**RIGHT ANGLE**

**IN-PROCESS 3**  
ADD HEAT SHRINK TUBE, FERRULE, FLARE SHIELD AND SUB ASSEMBLY (SEE NOTE 6)

**IN-PROCESS 4**  
FLARE SHIELD AND ADD SUB ASSEMBLY (SEE NOTE 6)



**IN-PROCESS 4**  
CRIMP FERRULE



INSULATOR TO BE FLUSH WITH CABLE DIELECTRIC

**DETAIL 'A'**  
SCALE 6 : 1

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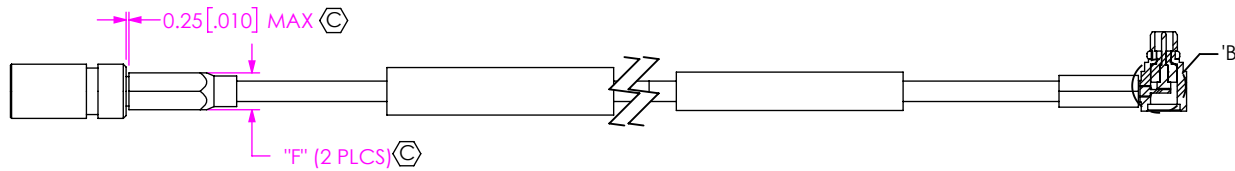
SHEET SCALE: 3:2



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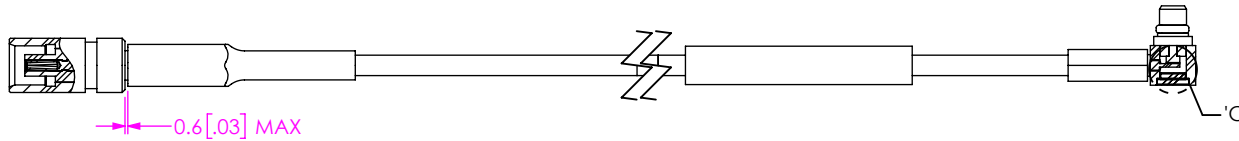
DESCRIPTION: RG178 CABLE ASSEMBLY	
DWG. NO. <b>RF178-XXXX-XXXX-XXXX</b>	
BY: TIM P.	5/6/2005 SHEET 11 OF 12

IN-PROCESS 5  
CRIMP FERRULE

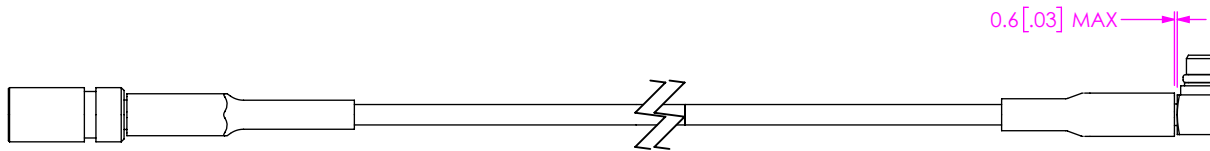


IN-PROCESS 5  
SOLDER SIGNAL PIN

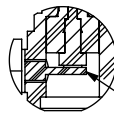
IN-PROCESS 6  
ACTIVTE HEAT SHRINK



IN-PROCESS 6  
INSERT INSULATOR & CAP

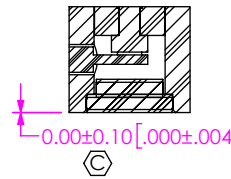


IN-PROCESS 7  
ACTIVATE HEAT SHRINK



CABLE CENTER CONDUCTOR  
SHOULD NOT PROTRUDE  
OUTSIDE CONTACT CUP

DETAIL 'B'  
SCALE 3 : 1



DETAIL 'C'  
SCALE 4 : 1

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DESCRIPTION:  
RG178 CABLE ASSEMBLY

DWG. NO.  
RF178-XXXX-XXXX-XXXX

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