

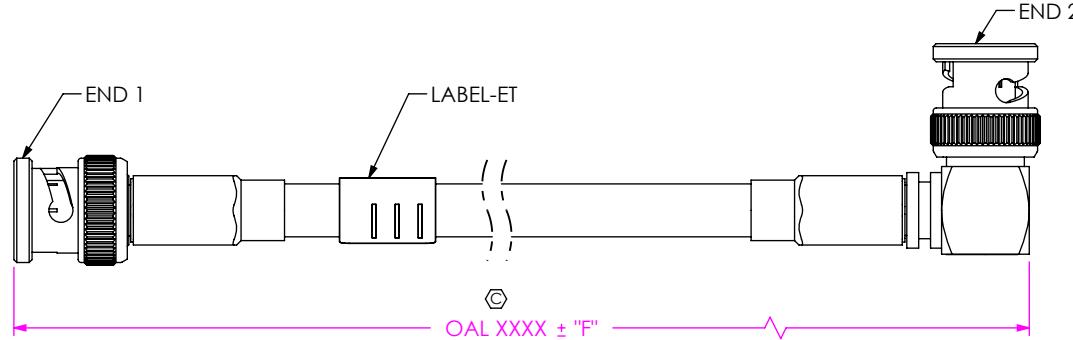
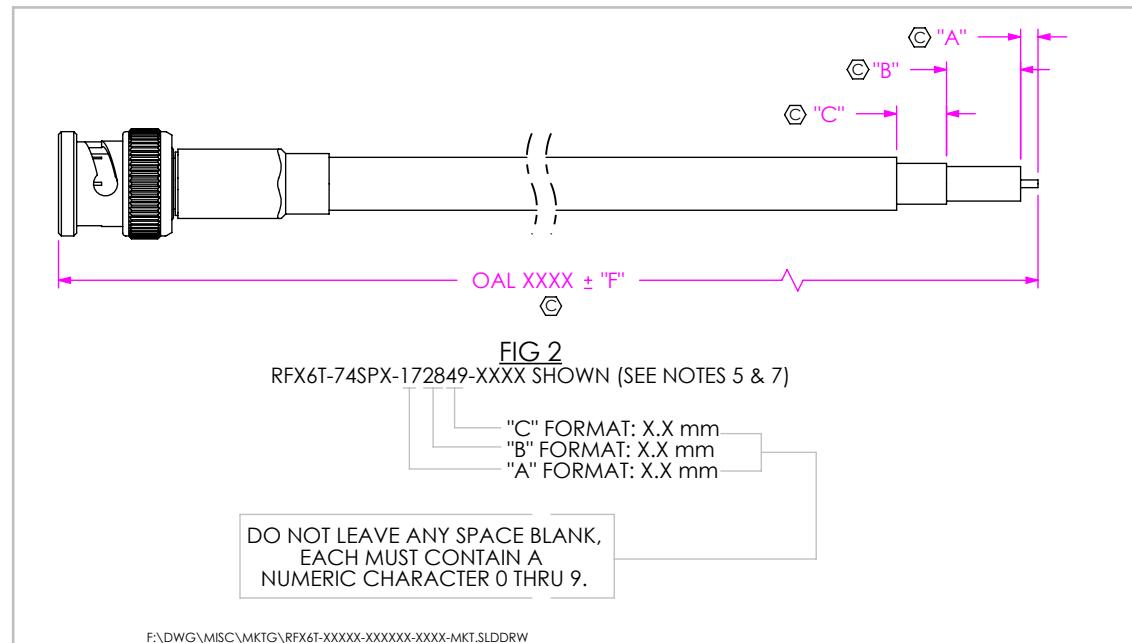
DO NOT
SCALE FROM
THIS PRINT

CABLE CALLOUT

A6T: RG-6 CABLE (CCA-6)

B6T: BELDEN 1694A CABLE (CCA-1694A)

RFX6T-XXXXX-XXXXXX-XXXX

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS) (0300 MIN)
(SEE NOTE 8)END 1 CONNECTOR
(SEE TABLE 3, SHT 2)END 2 CONNECTOR OR PREPARATION
(SEE TABLE 3, SHT 2)FIG 1
RFX6T-74SPX-74RPX-XXXX SHOWNFIG 2
RFX6T-74SPX-172849-XXXX SHOWN (SEE NOTES 5 & 7)

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

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.
- 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.

F:\DWG\MISC\MKTG\RFX6T-XXXXX-XXXXXX-XXXX-MKT.SLDDRW

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: 2:1

DIELECTRIC: PTFE
GASKET: SILICONE
SPRING: STAINLESS STEEL
ALL OTHER: BRASS

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

DESCRIPTION:
TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.
RFX6T-XXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 1 OF 8

TABLE 3

END 2 OPTION	SERIES	GENDER	CONFIGURATION	PLATING			FIGURE
				CENTER CONTACT	OUTER CONTACT	OTHER COMPONENTS	
-74RP3	75 OHM BNC	PLUG	RIGHT ANGLE	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 3, FIG 3
-74SP3	75 OHM BNC	PLUG	STRAIGHT	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 3, FIG 4
-H4SP2	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	30 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 4, FIG 5
-H4SP3	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	
-H4SP4	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	10 μ " GOLD	3 μ " GOLD	100 μ " NICKEL	
-H4SP8	75 OHM HIGH DENSITY BNC	PLUG	STRAIGHT	30 μ " GOLD	3 μ " GOLD	100 μ " NICKEL	
-D4SP3	75 OHM BNC (DIE CAST)	PLUG	STRAIGHT	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 4, FIG 6
-78SP4	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	10 μ " GOLD	3 μ " GOLD	100 μ " NICKEL	SHT 5, FIG 7
-78SP5	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	10 μ " GOLD	10 μ " GOLD	100 μ " NICKEL	
-78SP6	75 OHM DIN 1.0/2.3	PLUG	STRAIGHT	30 μ " GOLD	30 μ " GOLD	100 μ " NICKEL	
**-79SP2	75 OHM MINI BNC	PLUG	STRAIGHT	30 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 5, FIG 8
**-79SP3	75 OHM MINI BNC	PLUG	STRAIGHT	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	SHT 6, FIG 9
**-79RP2	75 OHM MINI BNC	PLUG	RIGHT ANGLE	30 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	
**-79RP3	75 OHM MINI BNC	PLUG	RIGHT ANGLE	10 μ " GOLD	100 μ " NICKEL	100 μ " NICKEL	
*-SING	SINGLE ENDED	-	-	-	-	-	-
*-XXXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 2

* = END OPTION ONLY

** = FOR EXISTING CUSTOMERS ONLY

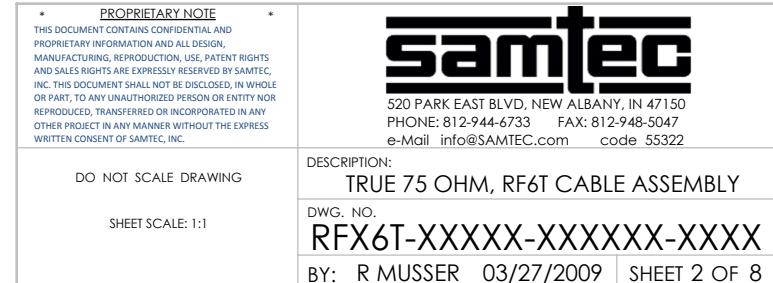
TABLE 1

END OPTION	SUBTRACTOR	STRIP DIMENSIONS			HI POT	
		"Y"	"A"	"D"	"E"	"DC"
-74RP3	4.7 [0.19]	2.3 [0.09]	12.1 [0.48]	18.7 [0.74]	1000	300
-74SP3	10.3 [0.41]	3.2 [0.13]	5.4 [0.21]	11.9 [0.47]	1000	300
-H4SP2	13.4 [0.53]	2.7 [0.11]	4.2 [0.17]	11.0 [0.43]	1000	300
-H4SP3						
-H4SP4						
-H4SP8						
-D4SP3	10.3 [0.41]	3.2 [0.13]	5.4 [0.21]	11.9 [0.47]	1000	300
-78SP4	15.7 [0.62]	2.9 [0.11]	5.0 [0.20]	12.3 [0.48]	1000	300
-78SP5						
-78SP6						
**-79SP2	8.7 [0.34]	2.0 [0.08]	2.6 [0.10]	8.6 [0.34]	1000	300
**-79SP3						
**-79RP2	3.0 [0.12]	1.7 [0.07]	7.1 [0.28]	13.7 [0.54]	1000	300
**-79RP3						
*-SING	0.0 [0.00]	-	-	-	1000	N/A
*-XXXXXX	0.0 [0.00]	"A"	"A" + "B"	"A" + "B" + "C"	1000	N/A

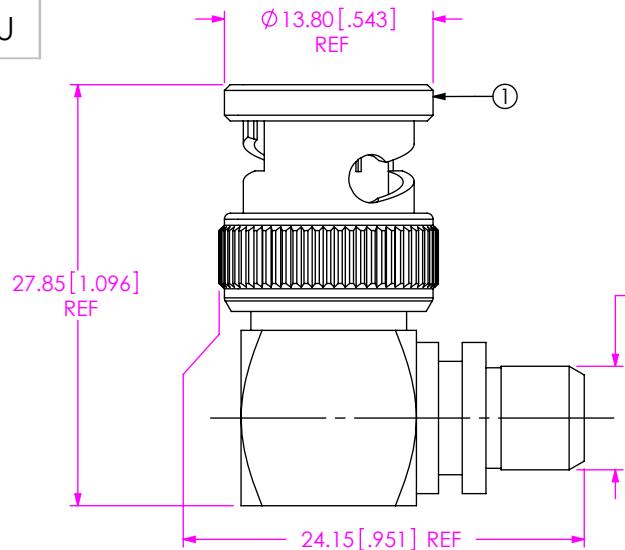
* = END 2 OPTION ONLY

** = FOR EXISTING CUSTOMERS ONLY

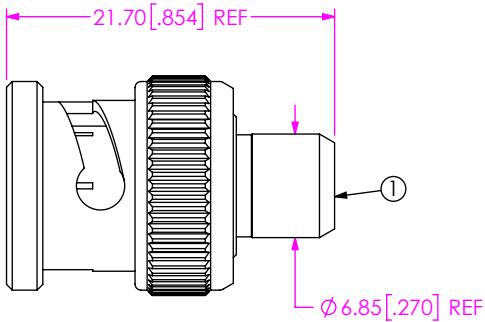
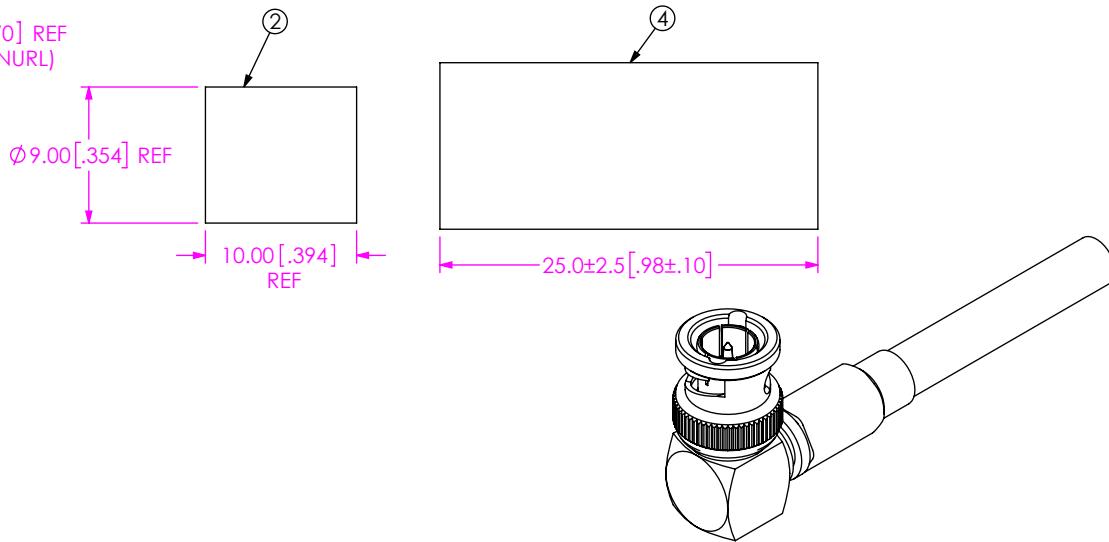
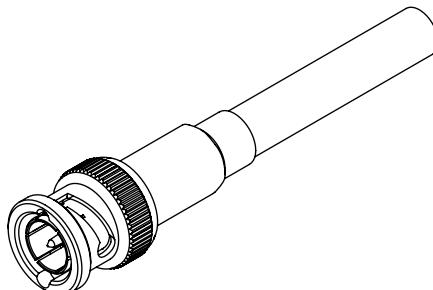
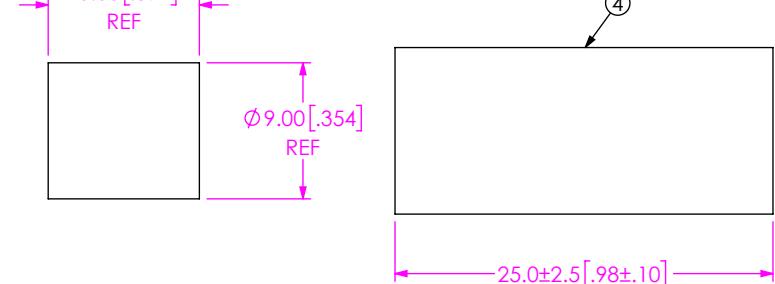
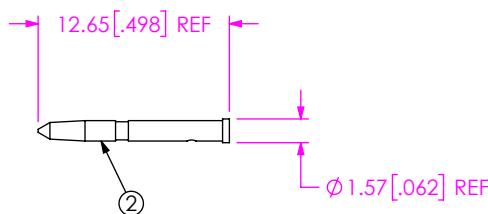
F:\DWG\MISC\MKTG\RFX6T-XXXXX-XXXXX-XXXX-MKT.SLDDRW



REVISION U

FIG 3
-74RPX SHOWN

BOM		
ITEM	COMPONENT	-74RP3
1	SUB ASSEMBLY	SUB-BNC7T-P-C-GN-RA-CA6
2	FERRULE	BNC-FER-001-N
3	CAP	BNC7T-P-C-N-RA-CA6-CAP
4	HEAT SHRINK	HST-0.500-02-BLK

FIG 4
-74SPX SHOWN

BOM		
ITEM	COMPONENT	-74SP3
1	SUB-ASSEMBLY	SUB-BNC7T-P-C-N-ST-CA6
2	PIN	BNC7T-P-C-G-ST-CA6-PIN
3	FERRULE	BNC-FER-001-N
4	HEAT SHRINK	HST-0.500-02-BLK

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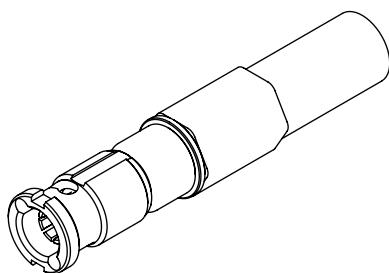
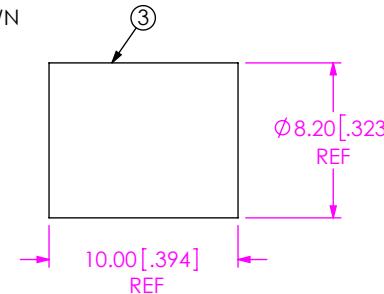
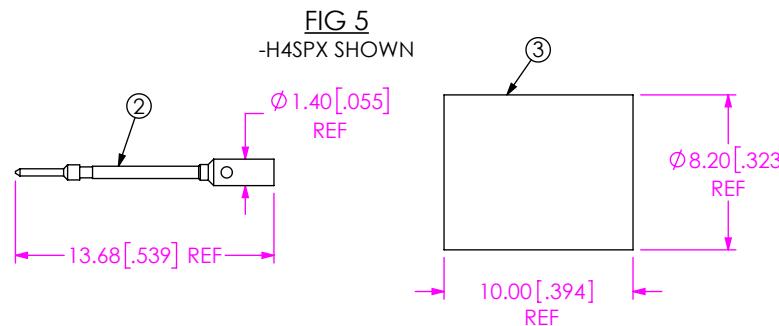
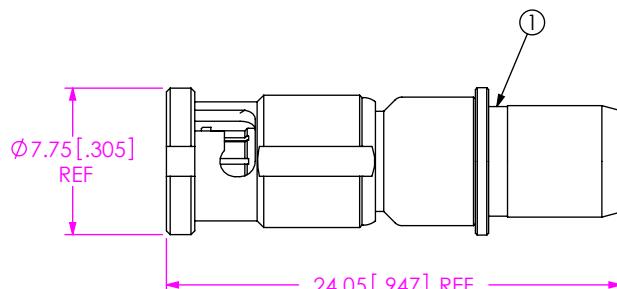
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 520 PARK EAST BLVD, NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: TRUE 75 OHM, RF6T CABLE ASSEMBLY

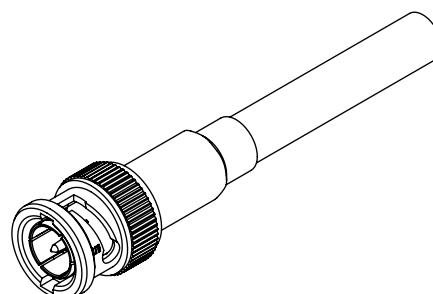
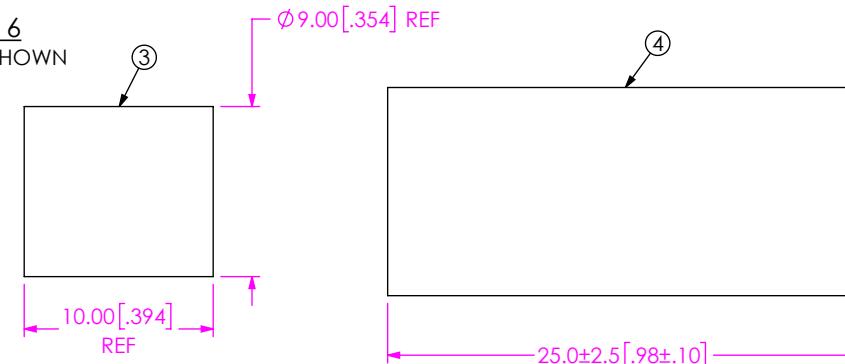
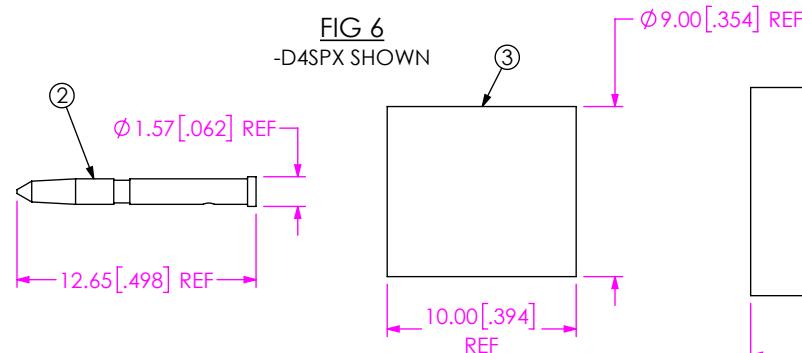
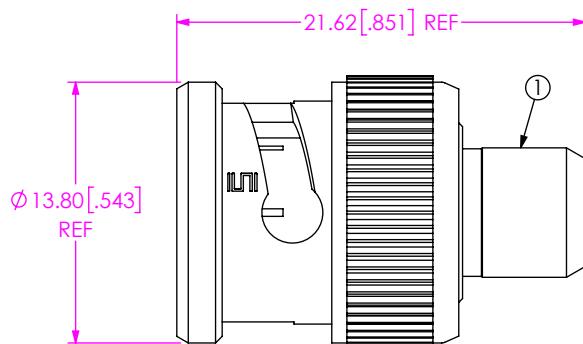
DWG. NO.

RFX6T-XXXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 3 OF 8



BOM					
ITEM	COMPONENT	-H4SP2	-H4SP3	-H4SP4	-H4SP8
1	SUB ASSEMBLY	SUB-HDBNC-P-C-NN-ST-CA6	SUB-HDBNC-P-C-NN-ST-CA6	SUB-HDBNC-P-C-FN-ST-CA6	SUB-HDBNC-P-C-FN-ST-CA6
2	PIN	HDBNC-P-C-H-ST-CA6-PIN	HDBNC-P-C-G-ST-CA6-PIN	HDBNC-P-C-G-ST-CA6-PIN	HDBNC-P-C-H-ST-CA6-PIN
3	FERRULE			HDBNC-FER-001-N	



BOM		
ITEM	COMPONENT	-D4SP3
1	SUB-ASSEMBLY	SUB-BNC7T-P-C-N-ST-CA6D
2	PIN	BNC7T-P-C-G-ST-CA6-PIN
3	FERRULE	BNC-FER-001-N
4	HEAT SHRINK	HST-0.500-02-BLK

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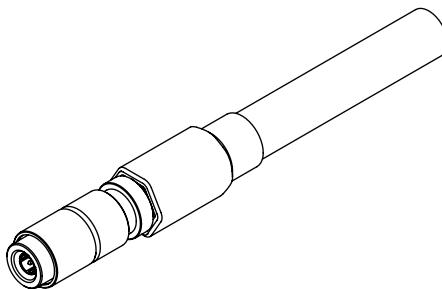
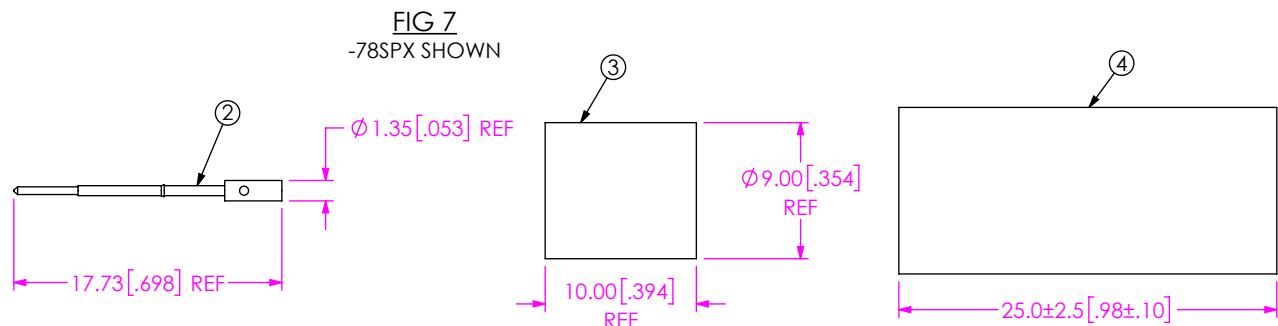
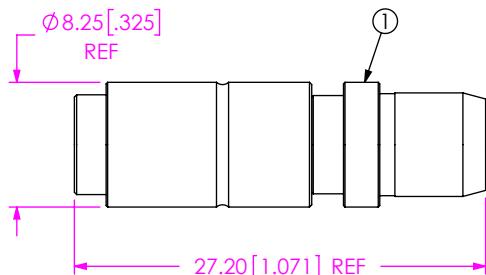
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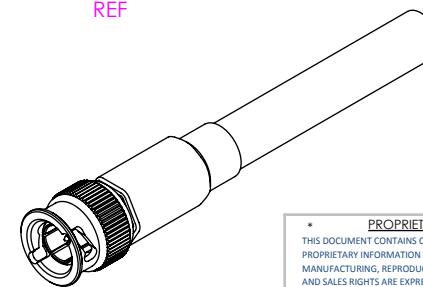
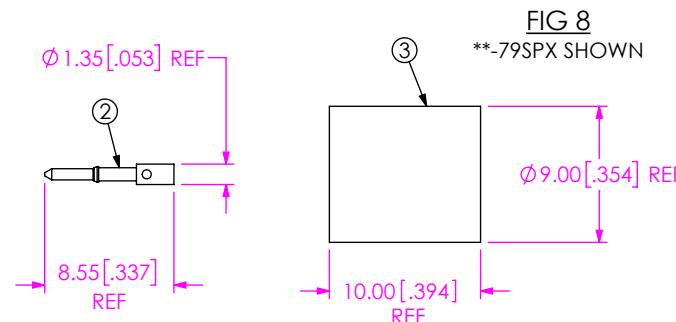
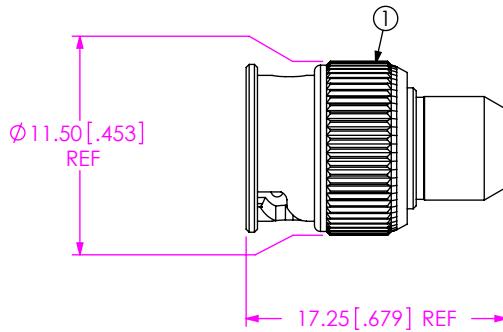
BY:R MUSSER

03/27/2009

SHEET 4 OF 8



BOM				
ITEM	COMPONENT	-78SP4	-78SP5	-78SP6
1	SUB ASSEMBLY	SUB-DIN7A-PP-C-FN-ST-CA6	SUB-DIN7A-PP-C-GN-ST-CA6	SUB-DIN7A-PP-C-HN-ST-CA6
2	PIN	DIN7A-P-C-G-ST-CA6-PIN	DIN7A-P-C-G-ST-CA6-PIN	DIN7A-P-C-H-ST-CA6-PIN
3	FERRULE		BNC-FER-001-N	
4	HEAT SHRINK		HST-0.500-02-BLK	



BOM			
ITEM	COMPONENT	**-79SP2	**-79SP3
1	SUB ASSEMBLY	SUB-MBNC7-P-C-N-ST-CA6	
2	PIN	MBNC7-P-C-H-ST-CA6-PIN	MBNC7-P-C-G-ST-CA6-PIN
3	FERRULE		BNC-FER-001-N
4	HEAT SHRINK		HST-0.500-02-BLK

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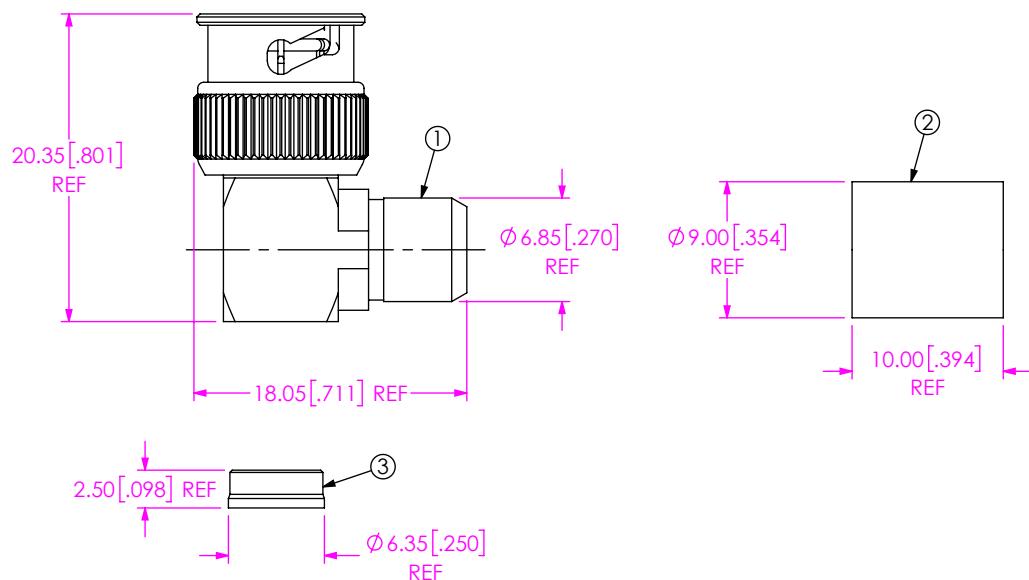
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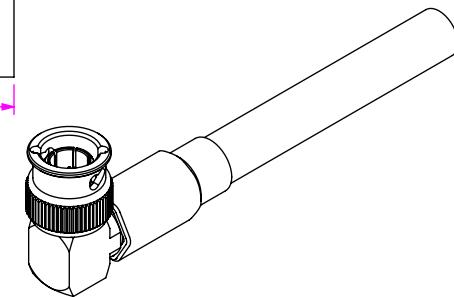
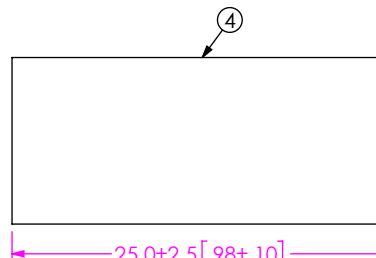
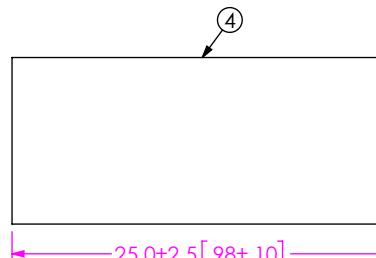
BY: R MUSSER 03/27/2009 SHEET 5 OF 8

FIG 9
**-79RPX SHOWN



BOM		**-79RP2	**-79RP3
ITEM	COMPONENT		
1	SUB ASSEMBLY	SUB-MBNC7-P-C-HN-RA-CA6	SUB-MBNC7-P-C-GN-RA-CA6
2	FERRULE	BNC-FER-001-N	
3	CAP	MBNC7-P-C-N-RA-CAP	
4	HEAT SHRINK	HST-0.500-02-BLK	

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.

RFX6T-XXXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 6 OF 8

IN PROCESS 1
CUT CABLE TO LENGTH

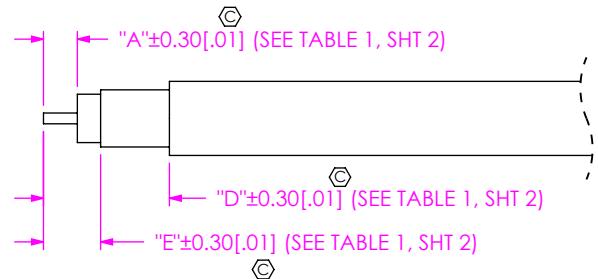
NOTE: "Z" = 2*OAL - 2*["Y"(END 1)] (FOR -SING OR -XXXXXX OPTIONS)
"Z" = OAL - "Y"(END 1) - "Y"(END 2) (FOR DOUBLE ENDED OPTIONS)

"Z" (SEE NOTE)

SEE TABLE

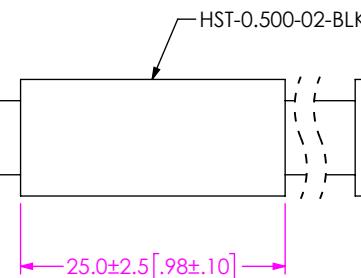
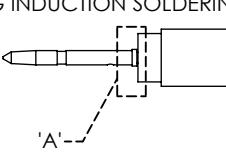
TABLE

CABLE CALLOUT	PART NUMBER
RFA6T	CCA-6
RFB6T	CCA-1694A



IN PROCESS 2
STRIP AND TIN INNER CONDUCTOR

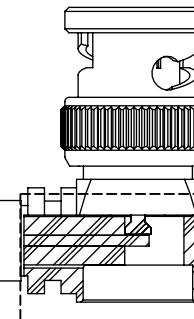
STRAIGHT
IN PROCESS 3
ADD FERRULE & HEAT SHRINK TUBE (IF APPLICABLE),
SOLDER SIGNAL PIN
USING INDUCTION SOLDERING



25.0 ± 2.5 [.98 ± .10]

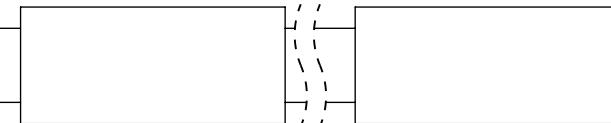
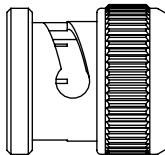
RIGHT ANGLE
IN PROCESS 3

ADD FERRULE & HEAT SHRINK TUBE,
FLARE SHIELD, ADD SUB ASSEMBLY
(CABLE FOIL WRAP TO BE INSERTED
INSIDE CABLE BODY)
(SEE NOTE 6)



'B'

STRAIGHT
IN PROCESS 4
FLARE SHIELD,
ADD SUB ASSEMBLY
(CABLE FOIL WRAP TO BE INSERTED
INSIDE CABLE BODY)
(SEE NOTE 6)

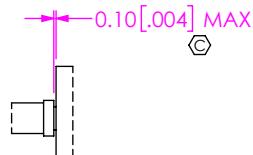


0.25 [.010] MAX

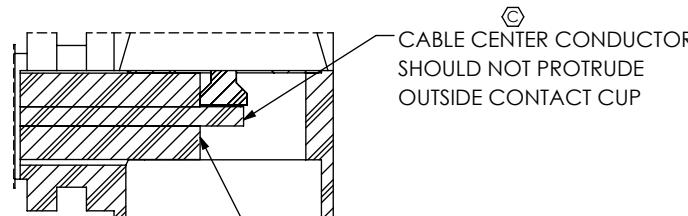
RIGHT ANGLE
IN-PROCESS 4
CRIMP FERRULE &
SOLDER SIGNAL PIN

8.38 [.330] (2 PLCS)

C



DETAIL 'A'
SCALE 3 : 1



DETAIL 'B'
SCALE 2.5 : 1

CABLE CENTER CONDUCTOR
SHOULD NOT PROTRUDE
OUTSIDE CONTACT CUP

END OF CABLE DIELECTRIC
SHOULD SEAT AGAINST
CONTACT CUP

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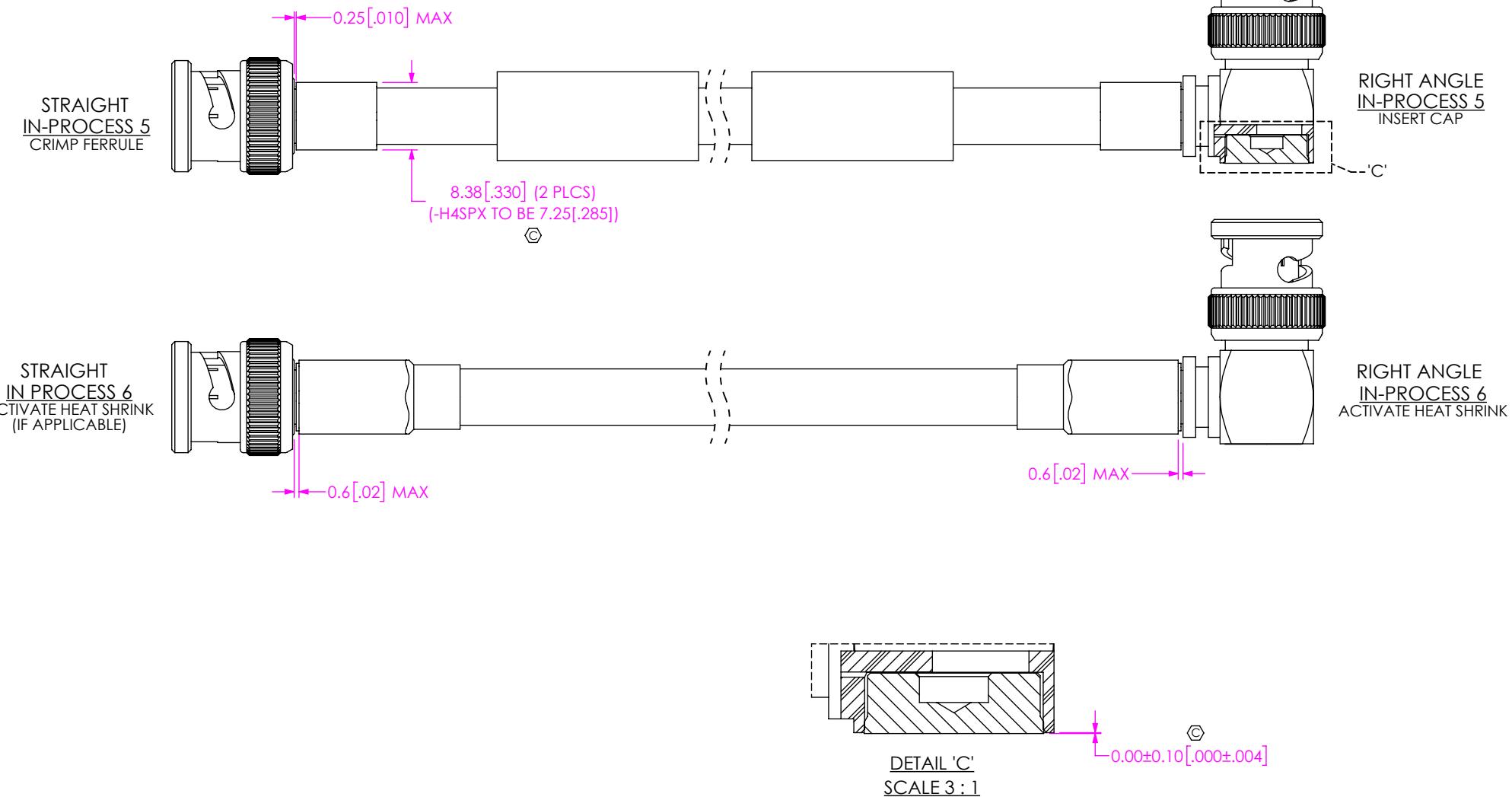
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: TRUE 75 OHM, RF6T CABLE ASSEMBLY

DWG. NO.

RFX6T-XXXXXX-XXXXXX-XXXX

BY: R MUSSER 03/27/2009 SHEET 7 OF 8



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