

DO NOT
SCALE FROM
THIS PRINT

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**
DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

RF23C-XXXX-XXXX-XXXX-X-XX

CABLE CALLOUT
23C: MWC-2350CU-01 CABLE

END 1 CONNECTOR
(SEE TABLE 2, SHT 2)

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)

NO. OF PHASE MATCHING CABLES
-XX: (XX CABLE FOR THIS PART NUMBER)
(XX CAN BE 02 TO 16)
-BLANK: 1 CABLE FOR THIS PART NUMBER, ONLY
AVAILABLE WITH NO PHASE MATCHING OPTION

PHASE MATCHING SPEC (RANGE)
-1: 1 PICO-SECOND
-2: 2 PICO-SECONDS
-5: 5 PICO-SECONDS
-BLANK: NO PHASE MATCHING

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)
(SEE NOTES 6 & 11)

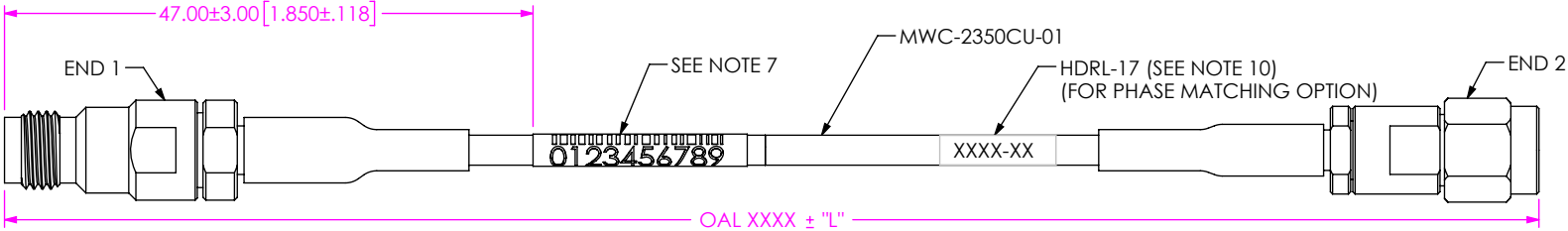


FIG 1
RF23C-24SJ-92SP-XXXX-X-XX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"L"
0100-0300 [5.98-11.81]	+5.0 [.20] / -0.0 [.00]
0301-1500 [11.85-59.01]	+12.0 [.47] / -0.0 [.00]
1501-3000 [59.09-118.11]	+25.0 [.98] / -0.0 [.00]
3001-7500 [118.15-295.28]	+50.0 [1.97] / -0.0 [.00]
7501-9999 [295.31-393.67]	+1% / -0.0 [.00]

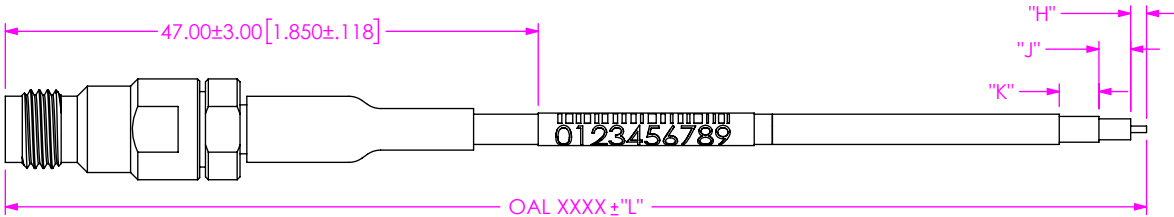


FIG 8
RF23C-24SJ-102030-XXXX SHOWN (SEE NOTE 8 & 9)

"K" FORMAT: X.X
"J" FORMAT: X.X
"H" FORMAT: X.X

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

- NOTES:
- NOTE DELETED.
 - NOTE DELETED.
 - CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
 - CABLE ASSEMBLY TO HAVE PROTECTIVE CAP ASSEMBLED ON EACH END AND TO BE INDIVIDUALLY PACKAGED IN ESD BAG.
 - NOTE DELETED.
 - CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
 - ASSEMBLY TO BE 100% TESTED FOR RETURN LOSS AND INSERTION LOSS. LABEL EACH INDIVIDUAL CABLE ASSEMBLY WITH 1 LABEL-SER-02. RETURN LOSS SPECIFICATION IS EQUAL TO THE HIGHEST END OPTION LIMIT.
 - DIM "H", "J", AND "K" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm[.39"].
 - FOR STRIPPED AND TINNED OPTION, BOTH THE CENTER CONDUCTOR IS TINNED.
 - XXXX-XX: LAST FOUR DIGIT OF MANUFACTURING ORDER - PHASE MATCHING GROUP NUMBER.
 - USE 3 DIGITS XXX (MILLIMETERS) FOR PHASE MATCHING OPTION. 999MM MAX LENGTH.

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MATERIAL: DO NOT SCALE DRAWING
CENTER CONTACTS: COPPER ALLOY SHEET SCALE: 3:2
OUT CONTACTS:
-MOSP/-MOSJ/-01SP/-01BJ/-01SB: COPPER ALLOY
-24SP/-24SJ/-92SP/-92SJ/-00BC/-00BF/-00BL/-00BS: STAINLESS STEEL
INSULATORS:
-MOSP/-MOSJ/-01SP/-01BJ/-01SB/-00BC/-00BF/-00BL/-00BS: VIRGIN PTFE FLUOROCARBON
-24SP/-24SJ/-92SP/-92SJ: ULTEM

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DESCRIPTION: RF23C CABLE ASSEMBLY

DWG. NO. RF23C-XXXX-XXXX-XXXX-X-XX

BY: PETER D 3/7/2017 SHEET 1 OF 8

TABLE 2							
END OPTION	SERIES	GENDER	FINISH			CONNECTOR KIT P/N (PCI P/N)	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY		
-24SP	2.40 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-P-C-EP-23C-SS (4181)	SHT 3, FIG 2
-24SJ	2.40 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-23C-SS (4182)	SHT 3, FIG 3
-92SP	2.92 MM	PLUG	30µ" GOLD	PASSIVATED	PASSIVATED	292-P-C-HP-ST-CU3 (N/A)	SHT 4, FIG 4
-92SJ	2.92 MM	JACK	30µ" GOLD	PASSIVATED	PASSIVATED	292-J-C-HP-ST-CU3 (N/A)	SHT 4, FIG 5
-M0SP	SMPM	PLUG, FULL DETENT	50µ" GOLD	50µ" GOLD	3µ" GOLD	PRFM0-P-C-EE-23C-SD (N/A)	SHT 5, FIG 6
-M0SJ	SMPM	JACK	50µ" GOLD	50µ" GOLD	3µ" GOLD	PRFM0-J-C-EE-23C-SD (N/A)	SHT 5, FIG 7
-01SP	SMA	PLUG	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-P-C-EG-23C-SD (N/A)	SHT 6, FIG 9
-01BJ	SMA	BULKHEAD JACK	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-J-C-EG-23C-BD (N/A)	SHT 6, FIG 10
-01SB	SMA	SEALED BULKHEAD JACK	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF01-J-C-EG-23C-BD-1 (N/A)	SHT 7, FIG 11
-00SJ	SMP	JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRF00-J-C-EE-23C-SD (N/A)	SHT 7, FIG 12
-00MJ	SMP	R/A JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRF00-J-C-EE-23C-RD (N/A)	SHT 8, FIG 13
-00BC	SMP	BULKHEAD PLUG, CATCHER'S MITT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PC-C-EG-23C-BD (N/A)	SHT 8, FIG 14
-00BF	SMP	BULKHEAD PLUG, FULL DETENT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PF-C-EG-23C-BD (N/A)	SHT 8, FIG 14
-00BL	SMP	BULKHEAD PLUG, LIMITED DETENT	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PL-C-EG-23C-BD (N/A)	SHT 8, FIG 14
-00BS	SMP	BULKHEAD PLUG, SMOOTH BORE	50µ" GOLD	10µ" GOLD	10µ" GOLD	PRF00-PS-C-EG-23C-BD (N/A)	SHT 8, FIG 14
▲**-SING	SINGLE ENDED	-	-	-	-	-	-
▲**-XXXXX	STRIPPED & TINNED	-	-	-	-	-	SHT 1, FIG 8

** = END 2 OPTION ONLY
* = NOT RELEASED
▲ = NOT RELEASED FOR PHASE MATCHING OPTION

TABLE 3					
END OPTION	MAXIMUM RETURN LOSS	MAXIMUM VSWR (PER END)	MAXIMUM INSERTION LOSS (IL) (PER END)	FREQUENCY	PROTECTIVE CAP COLOR
-24SP	21.53	1.183	.03+.035*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-24SJ	21.53	1.183	.03+.04*SQRT(Freq[GHz])	DC TO 50 GHz	GREEN
-92SP	21.53	1.183	.03+.03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-92SJ	21.53	1.183	.03+.03*SQRT(Freq[GHz])	DC TO 40 GHz	YELLOW
-M0SP	26.87	1.095	.03+.05*SQRT(Freq[GHz])	DC TO 18 GHz	GRAY
	21.53	1.183		18 GHz TO 50 GHz	
-M0SJ	26.87	1.095	.03+.05*SQRT(Freq[GHz])	DC TO 18 GHz	GRAY
	21.53	1.183		18 GHz TO 50 GHz	
-01SP	23.69	1.140	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01BJ	23.69	1.140	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-01SB	23.69	1.140	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	BROWN
-00SJ	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	WHITE
	19.90	1.225		26.5 GHz TO 40 GHz	
-00MJ	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	WHITE
	19.90	1.225		26.5 GHz TO 40 GHz	
-00BC	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	GRAY
	19.90	1.225		26.5 GHz TO 40 GHz	
-00BF	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	GRAY
	19.90	1.225		26.5 GHz TO 40 GHz	
-00BL	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	GRAY
	19.90	1.225		26.5 GHz TO 40 GHz	
-00BS	25.08	1.118	.03+.03*SQRT(Freq[GHz])	DC TO 26.5 GHz	GRAY
	19.90	1.225		26.5 GHz TO 40 GHz	

IL Max [dB] for cable assembly:
= {19.65*SQRT(Freq[GHz])+.16*Freq[GHz]}*OAL[mm]/30480+End Option IL#1(See Table 3)+End Option IL#2(See Table 3)
*=NOT RELEASED
VSWR MAX FOR CABLE ASSEMBLY:
= END OPTION VSWR#1(SEE TABLE 3)*END OPTION VSWR#2(SEE TABLE 3)

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SHEET SCALE: 3:2

DESCRIPTION:
RF23C CABLE ASSEMBLY

DWG. NO.
RF23C-XXXX-XXXX-XXXX-X-XX

BY: PETER D 3/7/2017 SHEET 2 OF 8

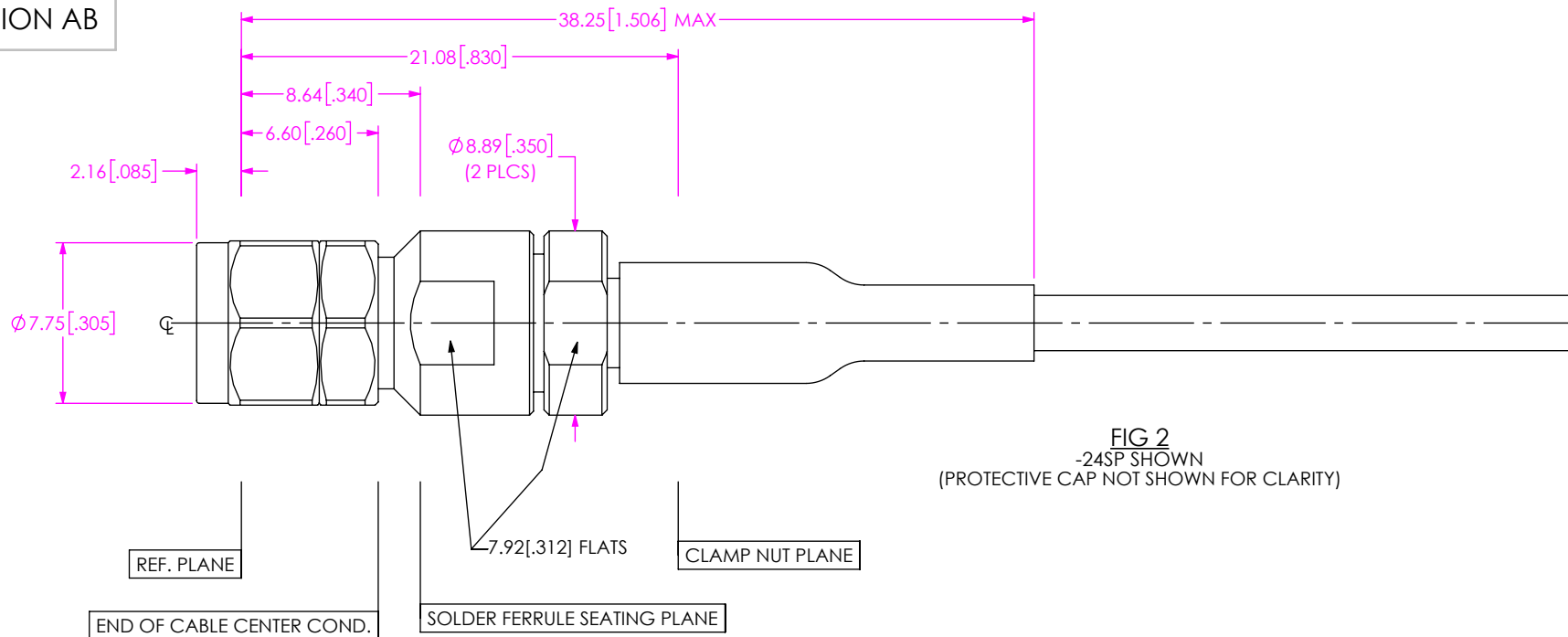


FIG 2
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

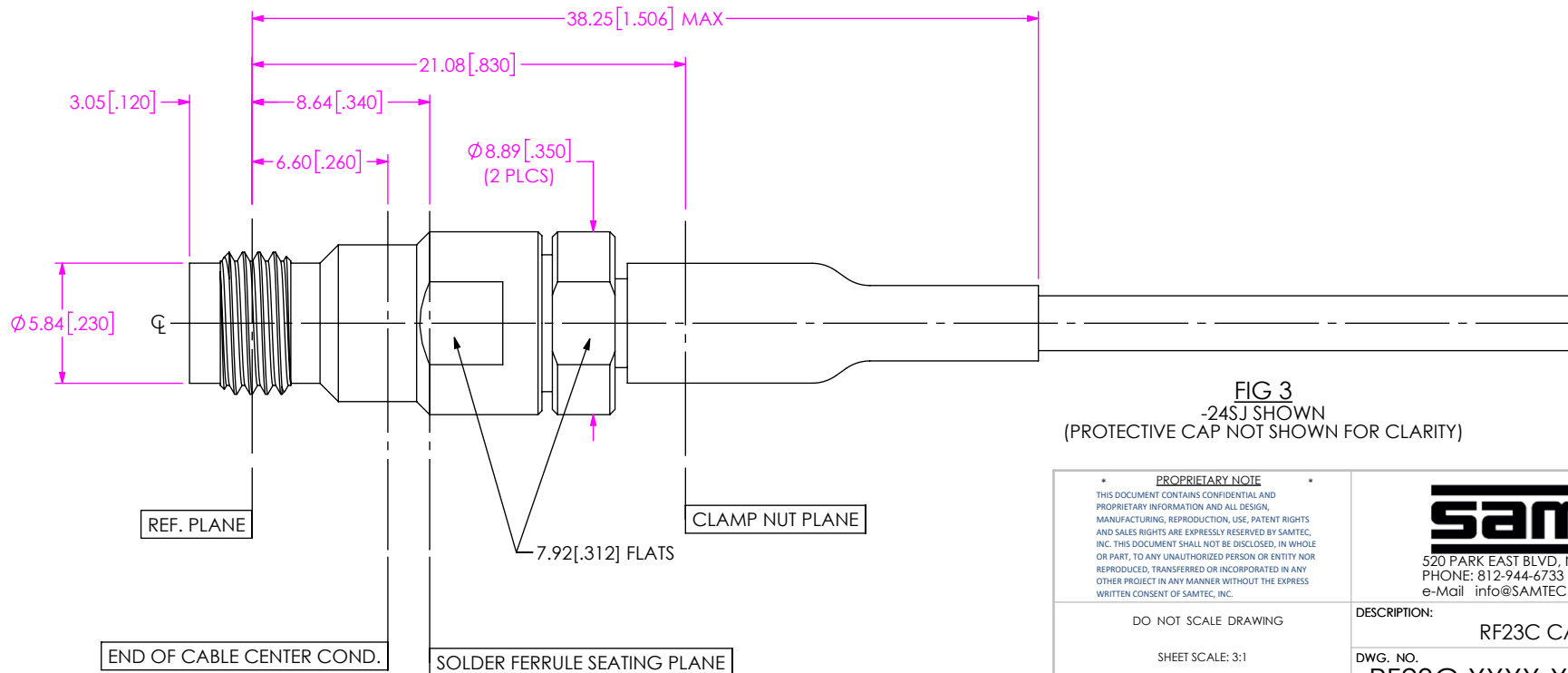


FIG 3
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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DESCRIPTION:	RF23C CABLE ASSEMBLY
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DWG. NO. RF23C-XXXX-XXXX-XXXX-X-XX

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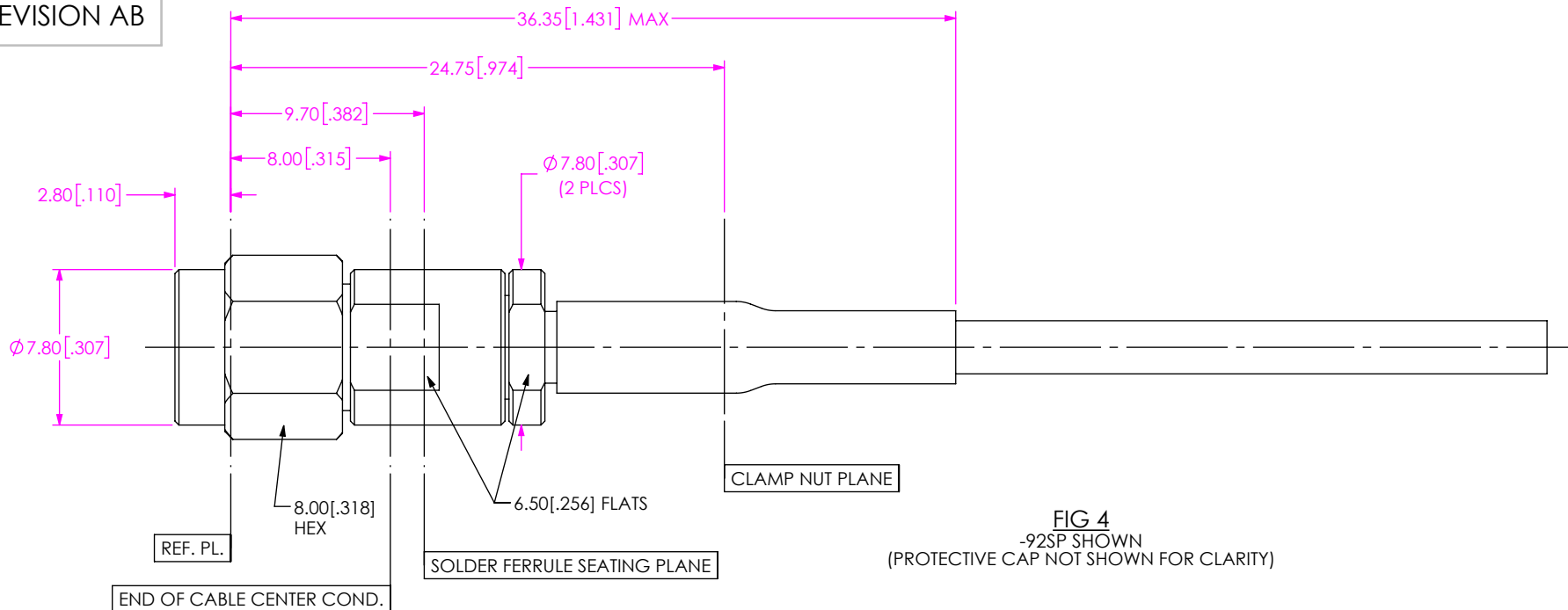


FIG 4
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

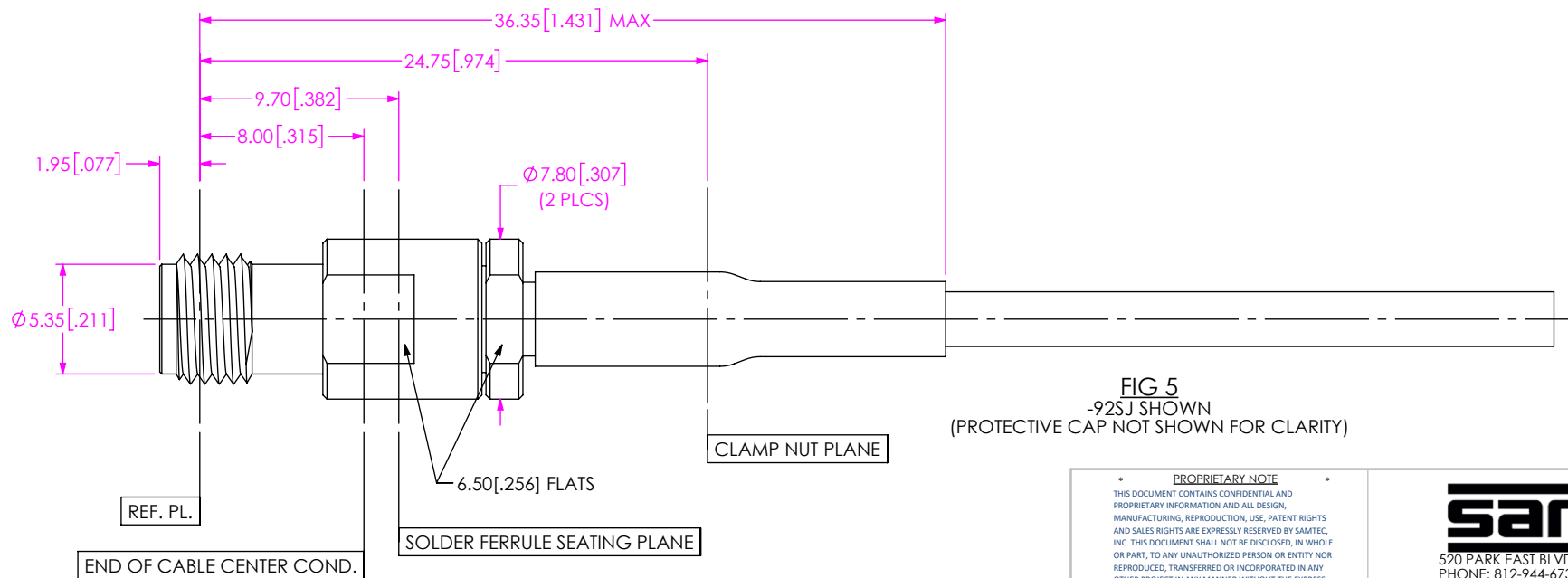


FIG 5
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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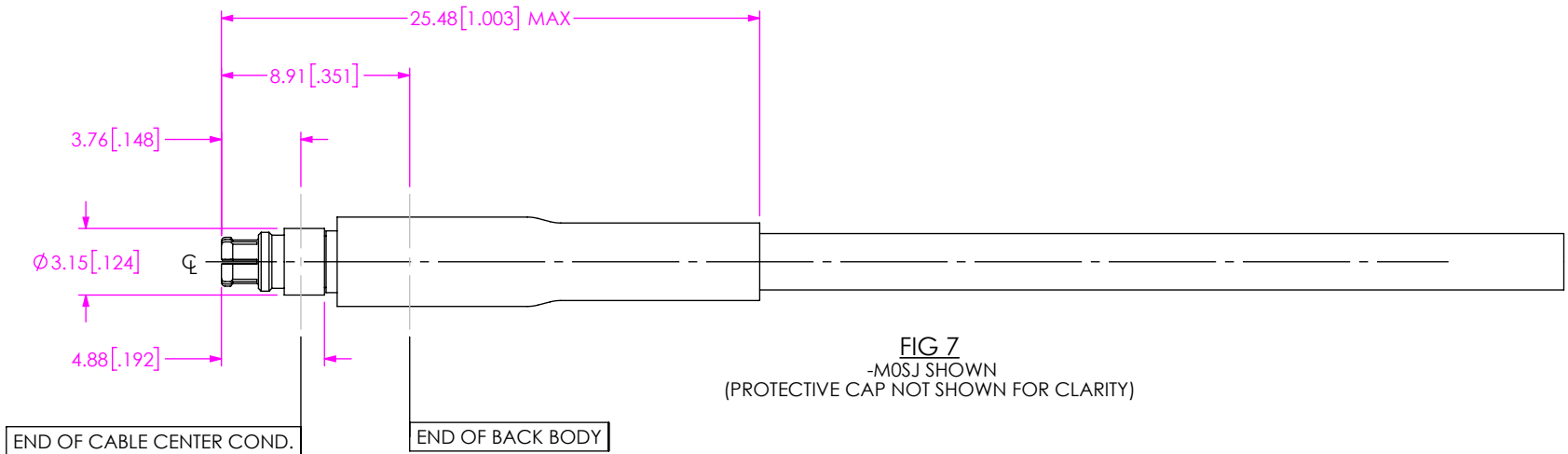
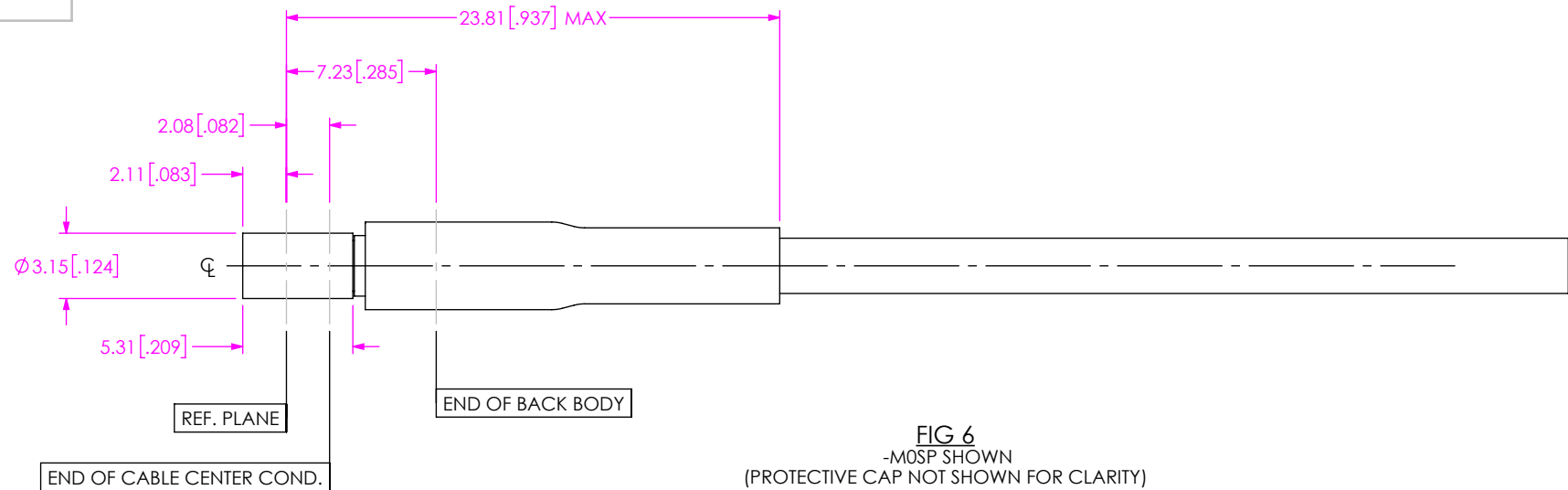
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DESCRIPTION:	RF23C CABLE ASSEMBLY
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	DESCRIPTION: RF23C CABLE ASSEMBLY DWG. NO. RF23C-XXXX-XXXX-XXXX-X-XX BY: PETER D 3/7/2017 SHEET 5 OF 8

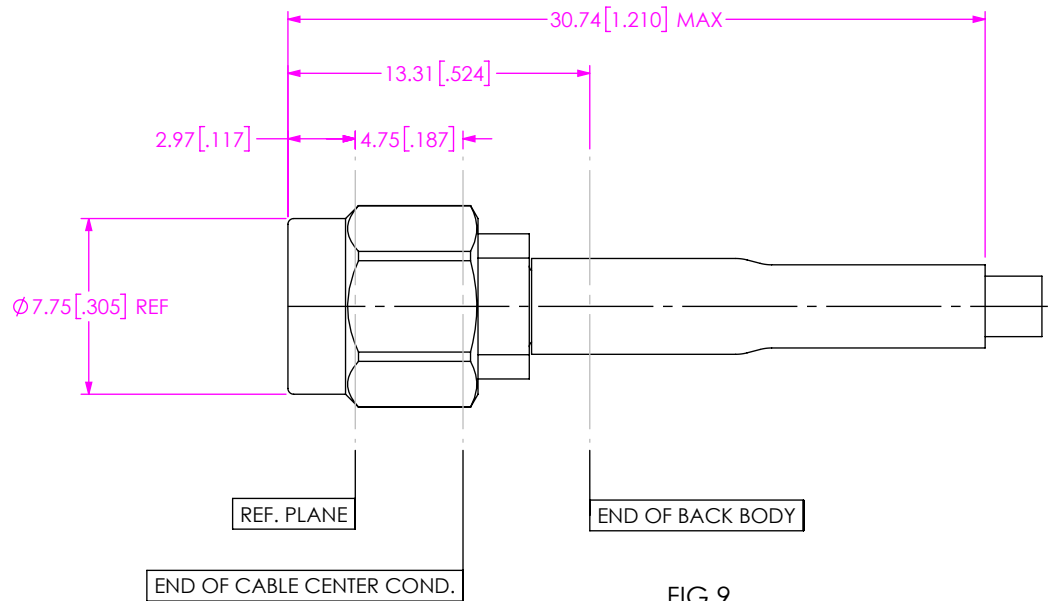


FIG 9
-01SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

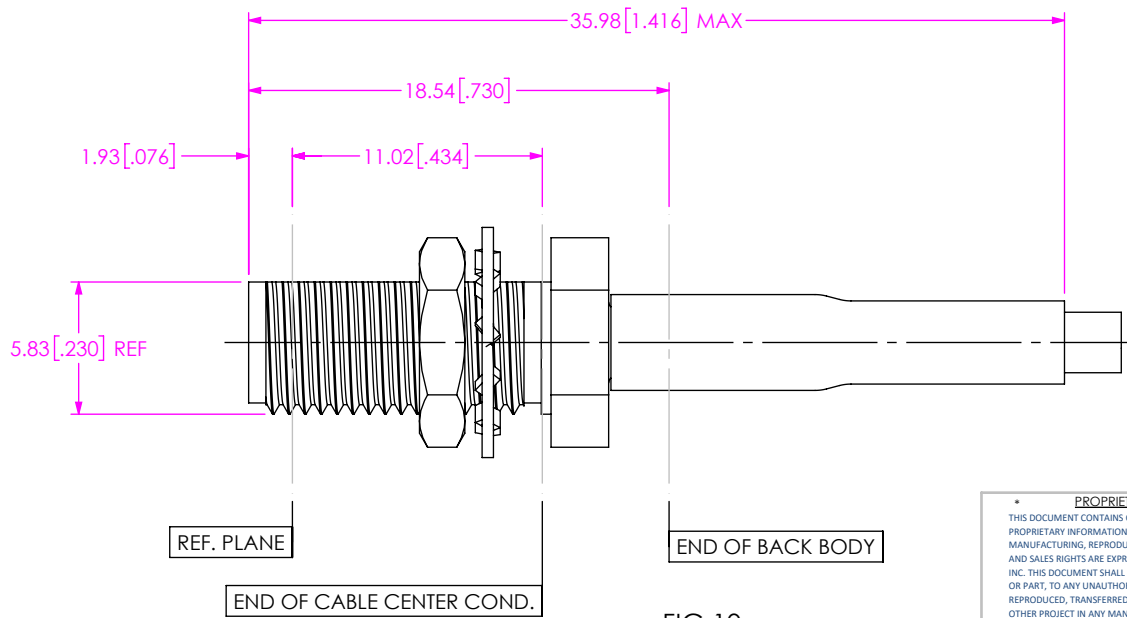
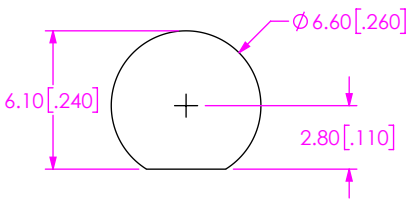


FIG 10
-01BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



RECOMMENDED PANEL LAYOUT
3.80 [.150] MAX. PANEL THICKNESS

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DWG. NO. RF23C-XXXX-XXXX-XXXX-X-XX
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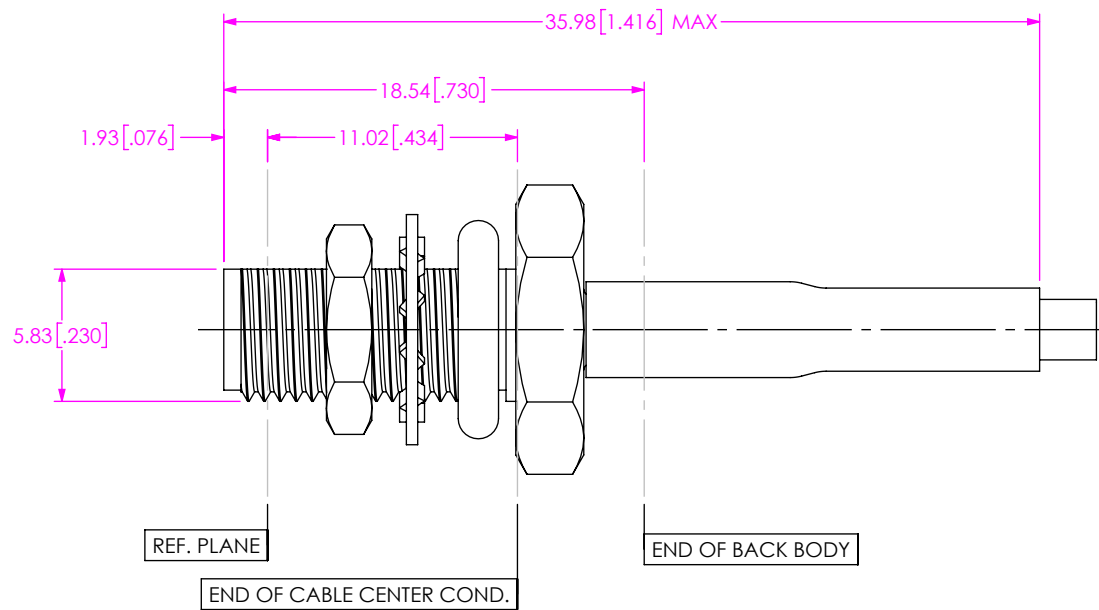
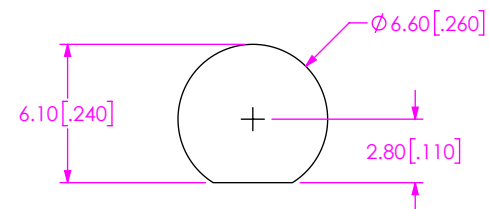


FIG 11
-01SB SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



RECOMMENDED PANEL LAYOUT
3.80 [.150] MAX. PANEL THICKNESS

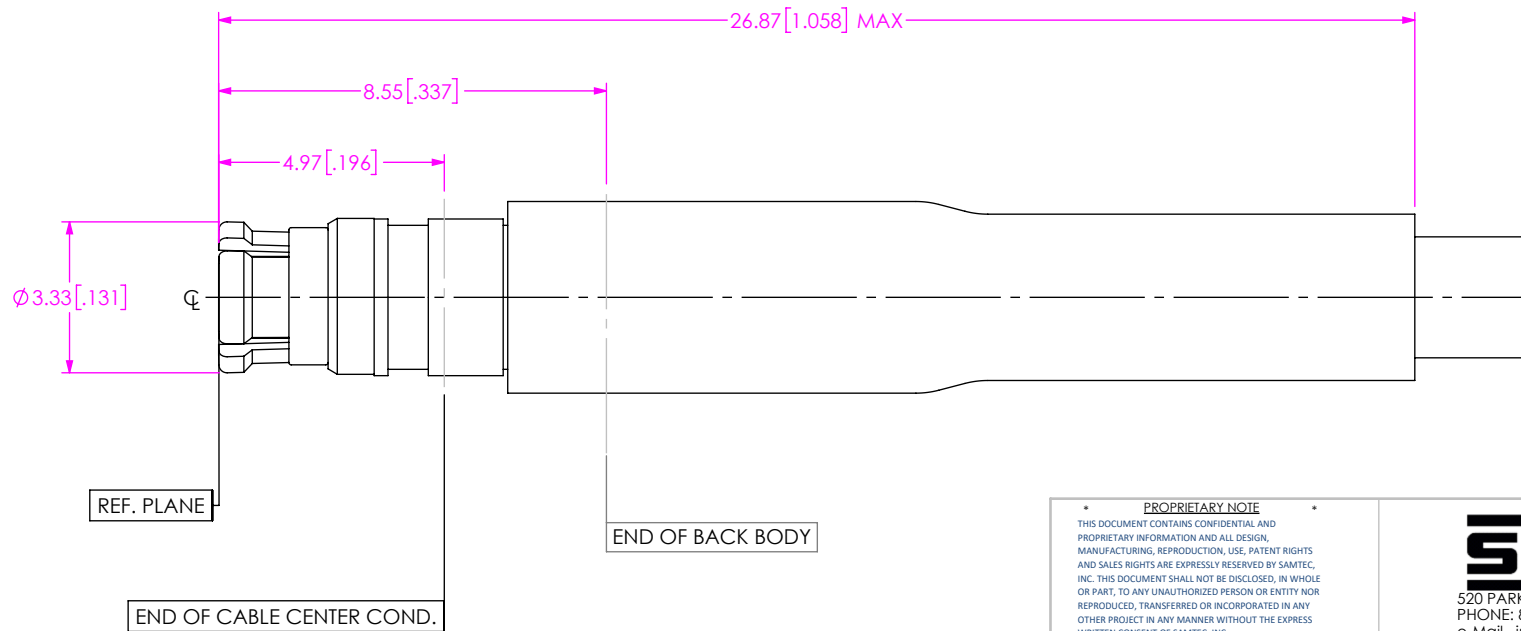


FIG 12
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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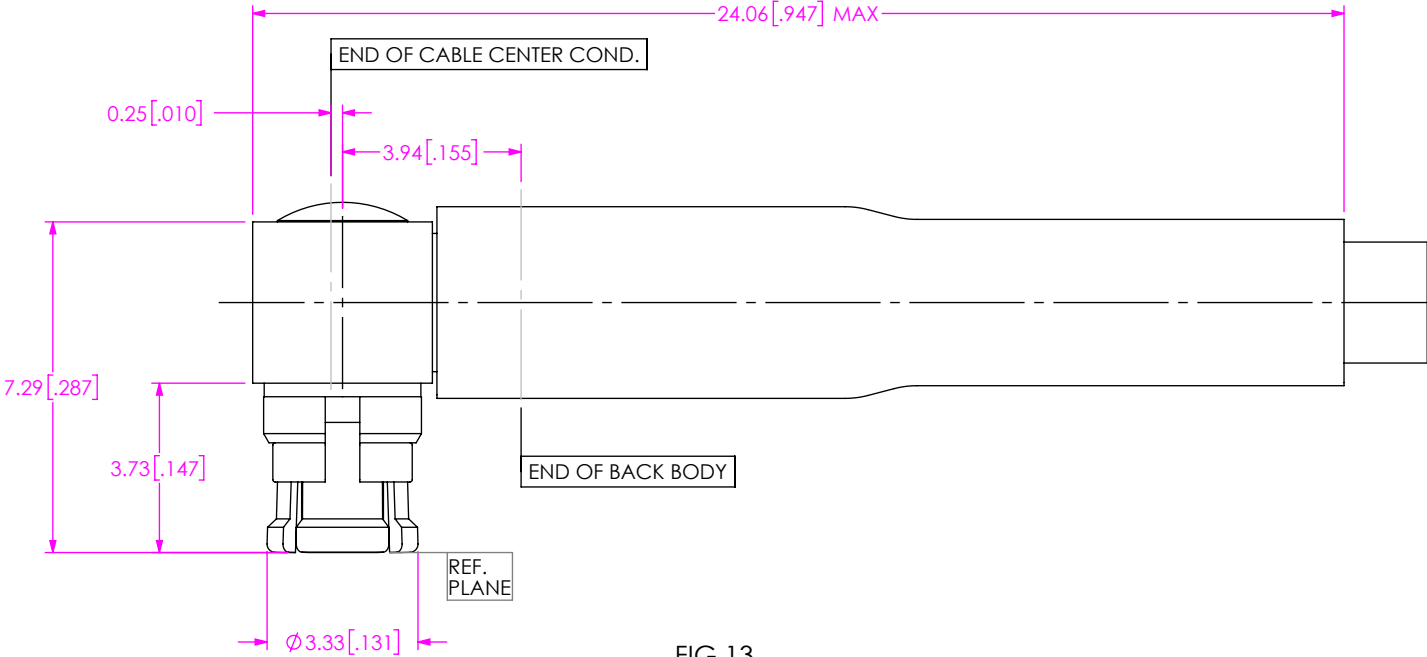


FIG 13
-00MJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

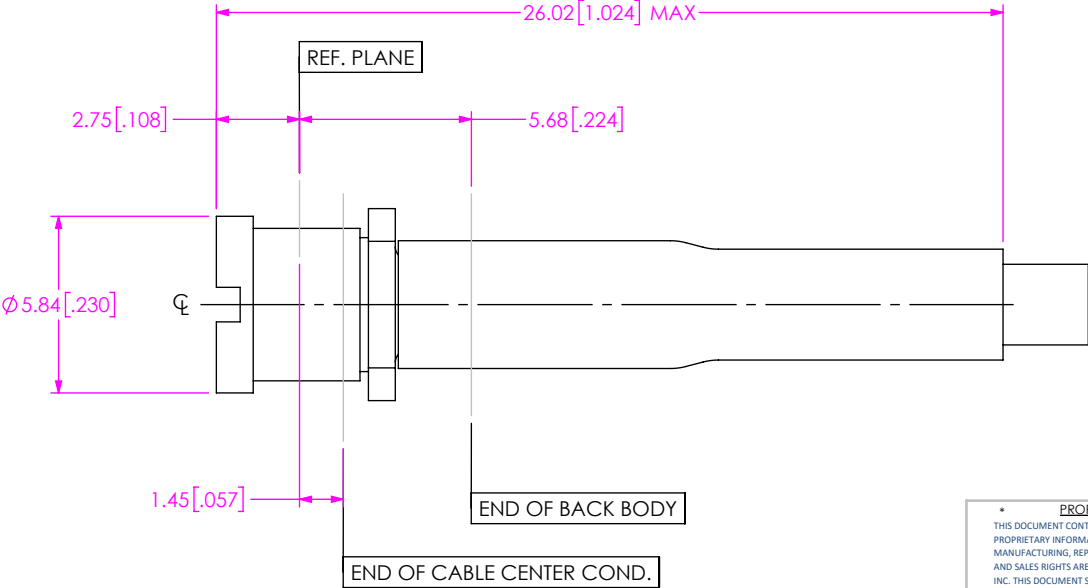
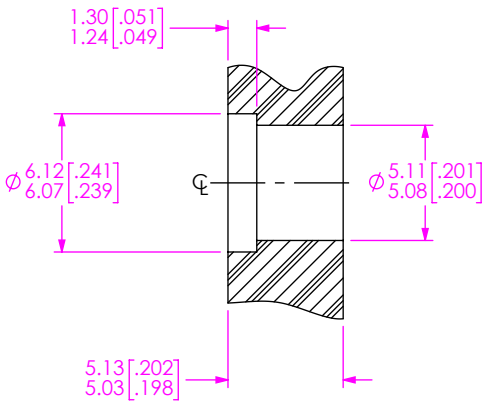


FIG 14
-00BC, -00BF, -00BL, -00BS SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



RECOMMENDED PANEL LAYOUT

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