

FIG.2  
CABLE STRIPPING DIMENSIONS  
PER CONFIGURATIONS  
(SEE TABLE 1)(SEE NOTES 12,13,14,15)

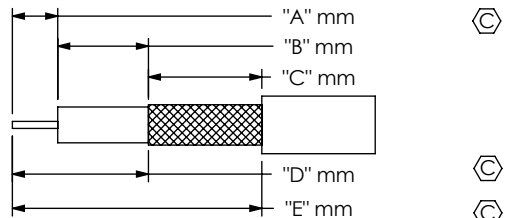


TABLE 1

CABLE STRIPPING DIMENSIONS				CABLE CUT LENGTH	HI POT
STYLE	"A"	"D"	"E"	SUBTRACTOR	DCV
-MH1RP	1.2 [0.05]	2.5 [0.10]	3.5 [0.14]	0.5 [0.02]	200
-MH3RP	1.0 [0.04]	1.4 [0.06]	2.4 [0.09]	0.5 [0.02]	200
-01BJ1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200
-01BJ2	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200
-01SB1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200
-01SR1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200
-SING	-	-	-	0.0 [0.00]	200

TABLE 2: FINAL ASSEMBLY LENGTH TOLERANCE

LENGTH	TOLERANCE
0030-0200 [3.92-7.87]	+3.0 [.12]/-0.0 [.00]
0200-0500 [7.87-19.69]	+5.0 [.20]/-0.0 [.00]
0500-1100 [19.69-43.30]	+10.0 [.40]/-0.0 [.00]
>1100 [43.30]	± 1%

## NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. CABLE CUT LENGTH:  
= (LENGTH: XXXX) - (SUBTRACTOR FOR END 1) - (SUBTRACTOR FOR END 2).  
(SEE TABLE 1 FOR SUBTRACTORS)
3. ASSEMBLY TO BE 100% TESTED FOR OPENS & SHORTS.
4. ASSEMBLY TO BE 100% HI-POT TESTED PER TABLE 1.
5. AFTER FINAL ELECTRICAL TESTS, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL -ET
6. CRITICALS ON CONNECTOR PRINTS TO BE CHECKED IN PROCESS.
7. FINISHED ASSEMBLIES TO BE PACKAGED PER PACKAGING STANDARD CO-HD-WI-3033-M.  
-LOCKWASHERS, NUTS, AND GASKETS TO BE SHIPPED UNASSEMBLED.
8. CABLE STOCKED IN INCHES, 1 INCH = 25.4 MILLIMETERS.
9. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
10. MINIMUM BEND RADIUS FOR MH081 = 5.0 [.20]  
MH113 = 6.8 [.27]
11. FOR SING ENDED OR STRIPPED AND TINNED ASSEMBLIES: MAKE A DOUBLE ENDED  
ASSEMBLY AT TWICE THE CABLE LENGTH AND TEST BEFORE CUTTING ASSEMBLY IN HALF.
12. DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm.
13. PRODUCTION OF STRIP AND TIN FOR CENTER DIELECTIC USE: A.
14. PRODUCTION OF STRIP AND TIN FOR SHIELD USE: D=A+B.
15. PRODUCTION OF STRIP AND TIN FOR JACKET USE: E=A+B+C.
16. FOR -RA TO -RA, CONNECTORS SHOULD BOTH BE ORIENTED UP. (SEE SHEET 2, FIG. 4)
17. FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.

DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]

MHXXX-MHXP-XXXXXX-XXXX

## CABLE CALLOUT

081: CCA-081  
(0.81 OD MINIATURE COAX CABLE)  
113: CCA-113  
(1.13 OD MINIATURE COAX CABLE)

## END 1 CONNECTOR

-MH1RP: MHF1-P-C-RA-CAX (SEE SHEET 2)  
(081 CABLE TYPE: MHF1-P-C-RA-CA3)  
(113 CABLE TYPE: MHF1-P-C-RA-CA4)  
-MH3RP: MHF3-P-C-RA-CA3 (SEE SHEET 2)  
(081 CABLE TYPE ONLY)

OVERALL CABLE LENGTH  
MILLIMETERS OF CABLE  
0030 MIN. (SEE NOTE 8 & 9)



## END 2 CONNECTOR OR PREPARATION

-MH1RP: MHF1-P-C-RA-CAX (SEE SHEET 2)  
(081 CABLE TYPE: MHF1-P-C-RA-CA3)  
(113 CABLE TYPE: MHF1-P-C-RA-CA4)  
-MH3RP: MHF3-P-C-RA-CA3 (SEE SHEET 2)  
(081 CABLE TYPE ONLY)  
-01BJ1: SMA-J-C-X-ST-BHX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BH3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BH4)  
-01BJ2: SMA-J-C-X-ST-BRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BR4)  
-01SB1: SMA-J-C-X-ST-SBX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SB3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SB4)  
-01SR1: SMA-J-C-X-ST-SRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SR4)  
-SING: SINGLE ENDED (ONE END ONLY, SEE NOTE 11)  
-XXXXXX: STRIPPED AND TINNED (THIS END ONLY-  
SEE NOTES 11-15, 17 & SHEET 2, FIG. 3)

(SEE FIG. 2) "C" FORMAT: X.Xmm  
(SEE FIG. 2) "B" FORMAT: X.Xmm  
(SEE FIG. 2) "A" FORMAT: X.Xmm

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

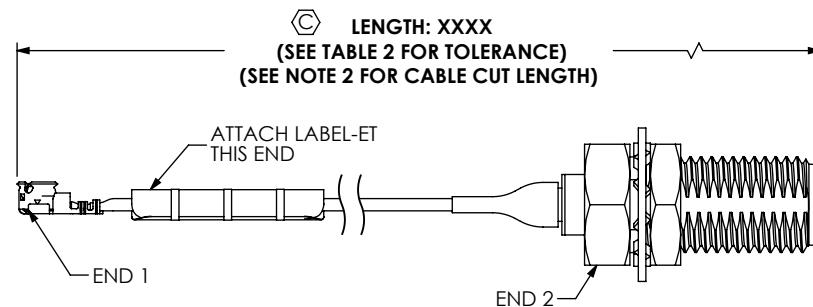


FIG. 1  
MHXXX-MH1RP-01BJT-XXXX SHOWN

THIS PRODUCT MANUFACTURED  
WITH LEAD-FREE PROCESSING

F:\DWG\MISC\MKTG\MHXXX-MHXP-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  
SEE END 1 AND END 2 ASSEMBLY PRINTS

SHEET SCALE: 2:1

DESCRIPTION:

**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
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MICRO RF CABLE ASSEMBLY

DWG. NO.  
MHXXX-MHXP-XXXXXX-XXXX

BY: CUMMINGS 07/26/2005 SHEET 1 OF 3

# -MH1RP

(RIGHT ANGLE PLUG)

(081 CABLE TYPE USE DRAWING No. MHF1-P-C-RA-CA3 FOR ASSEMBLY INSTRUCTIONS)

(113 CABLE TYPE USE DRAWING No. MHF1-P-C-RA-CA4 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

10μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MHF1-P-C-RA-CA3)  
OR (END CONNECTOR P/N: MHF1-P-C-RA-CA4)

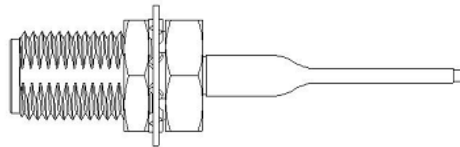
NOTE: ALL CRITICAL DIMENSIONS ON MHF1-P-C-RA-CAX THAT APPLY MUST BE VERIFIED.

# -01BJ1

(STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BH3 FOR ASSEMBLY INSTRUCTIONS)

(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BH4 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

30μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-BH3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BH4)

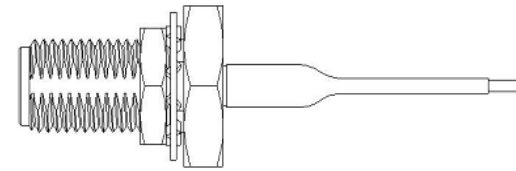
NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-BH3 OR SMA-J-C-X-ST-BH4 THAT APPLY MUST BE VERIFIED.

# -01SB1

(SEALED STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SB3 FOR ASSEMBLY INSTRUCTIONS)

(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SB4 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

30μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-SB3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-SB4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-SB3 OR SMA-J-C-X-ST-SB4 THAT APPLY MUST BE VERIFIED.

# -MH3RP

(RIGHT ANGLE PLUG)

(081 CABLE TYPE USE DRAWING No. MHF3-P-C-RA-CA3 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

10μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MHF3-P-C-RA-CA3)

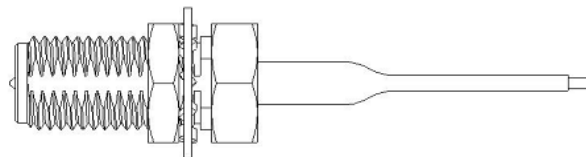
NOTE: ALL CRITICAL DIMENSIONS ON MHF3-P-C-RA-CA3 THAT APPLY MUST BE VERIFIED.

# -01BJ2 (REVERSED POLARITY)

(STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BR3 FOR ASSEMBLY INSTRUCTIONS)

(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BR4 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

30μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-BR3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BR4)

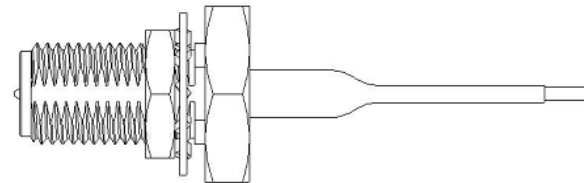
NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-BR3 OR SMA-J-C-X-ST-BR4 THAT APPLY MUST BE VERIFIED.

# -01SR1 (REVERSED POLARITY)

(SEALED STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SR3 FOR ASSEMBLY INSTRUCTIONS)

(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SR4 FOR ASSEMBLY INSTRUCTIONS)



## PLATING

30μ" MIN. GOLD CENTER CONTACT  
3μ" MIN. GOLD OUTER CONTACT  
3μ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-SR3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-SR4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-SR3 OR SMA-J-C-X-ST-SR4 THAT APPLY MUST BE VERIFIED.

FIG. 3  
MHXXX-MH1RP-T02148-XXXX SHOWN

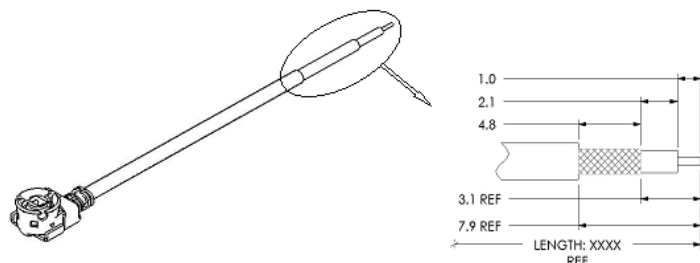
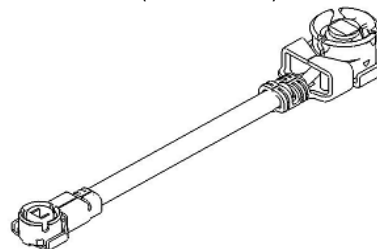


FIG. 4  
MH081-MH3RP-MH1RP-XXXX SHOWN  
(SEE NOTE 16)



F:\DWG\MISC\MKTG\MHXXX-MH1RP-XXXX-XXXX-MKT.SLDDRW

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DESCRIPTION:

MICRO RF CABLE ASSEMBLY

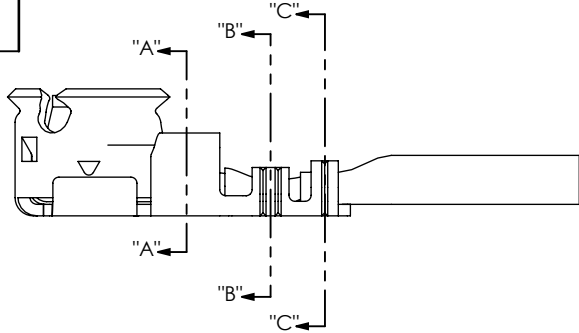
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MHXXX-MH1RP-XXXXXX-XXXX

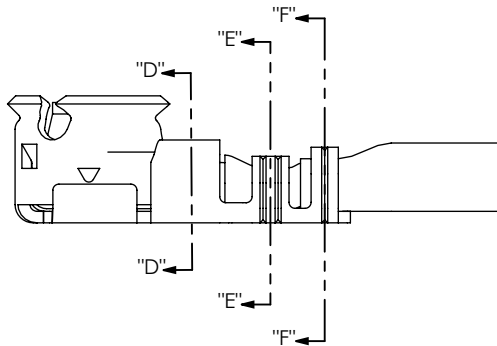
BY: CUMMINGS

07/26/2005

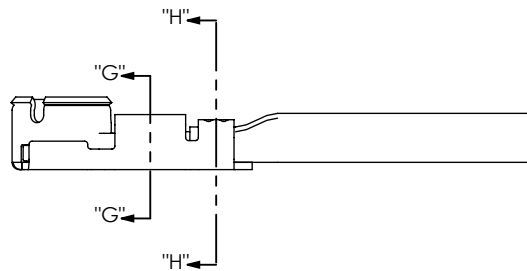
SHEET 2 OF 3



MH081-MH1RP

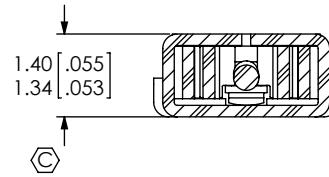


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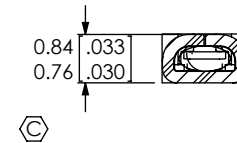


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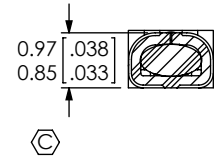
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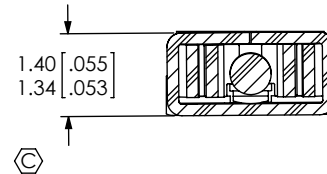
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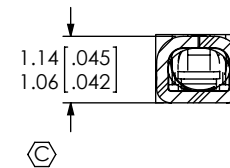
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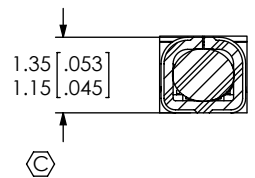
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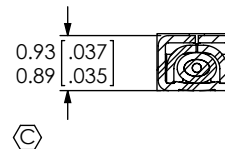
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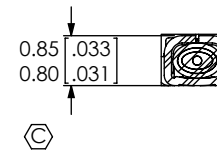
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SECTION "F"-"F"  
SCALE 8 : 1



SECTION "G"-"G"  
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SECTION "H"-"H"  
SCALE 8 : 1

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MICRO RF CABLE ASSEMBLY

DWG. NO.

MHXXX-MHGRP-XXXXXX-XXXX

BY: CUMMINGS 07/26/2005

SHEET 3 OF 3