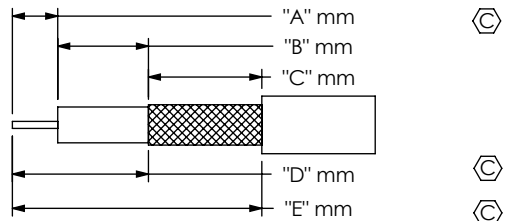


**FIG.2**  
CABLE STRIPPING DIMENSIONS  
PER CONFIGURATIONS  
(SEE TABLE 1)(SEE NOTES 12,13,14,15)



**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%

**TABLE 1**

STYLE	CABLE STRIPPING DIMENSIONS			CABLE CUT LENGTH	HI POT
	"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

NOTES:

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

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

MHXXX-XXXXX-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)
- 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)

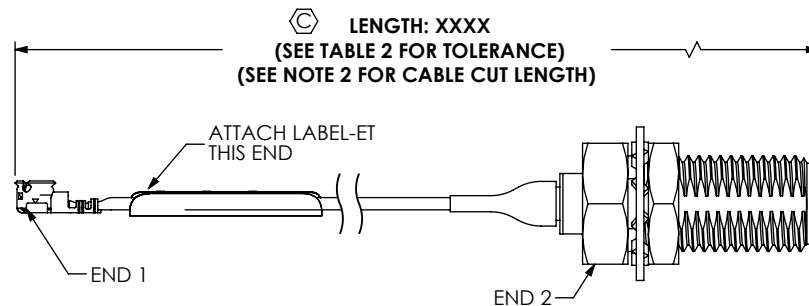
**OVERALL CABLE LENGTH**  
MILLIMETERS OF CABLE  
0030 MIN. (SEE NOTE 8 & 9)

**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-XXXXX-XXXXXX-XXXX-MKT.SLDRW

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN  
MILLIMETERS [INCHES].  
TOLERANCES ARE:  
DECIMALS ANGLES  
.X: ±0.3 [0.1] 2°  
.XX: ±0.13 [0.05]  
.XXX: ±0.051 [0.020]

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**MATERIAL:** DO NOT SCALE DRAWING  
SEE END 1 AND END 2 ASSEMBLY PRINTS

SHEET SCALE: 2:1

**DESCRIPTION:** MICRO RF CABLE ASSEMBLY

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

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

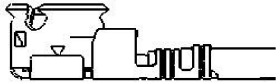


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**-MH1RP**

(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)



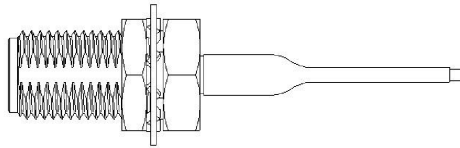
PLATING  
 10µ" MIN. GOLD CENTER CONTACT  
 3µ" MIN. GOLD OUTER CONTACT  
 3µ" MIN. GOLD REMAINING METAL PARTS  
 (END CONNECTOR P/N: MHF1-P-C-RA-CA3)  
 OR (END CONNECTOR P/N: MHF1-P-C-RA-CA4)

NOTE: ALL CRITICAL DIMENSIONS ON MHF1-P-C-RA-CA3 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)



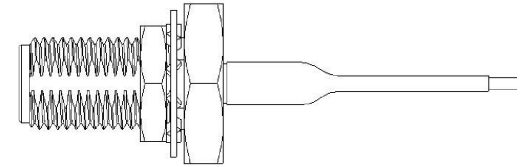
PLATING  
 30µ" MIN. GOLD CENTER CONTACT  
 3µ" MIN. GOLD OUTER CONTACT  
 3µ" MIN. GOLD REMAINING METAL PARTS  
 (END CONNECTOR P/N: SMA-J-C-H-ST-BH3)  
 OR (END CONNECTOR P/N: SMA-J-C-H-ST-BH4)

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)



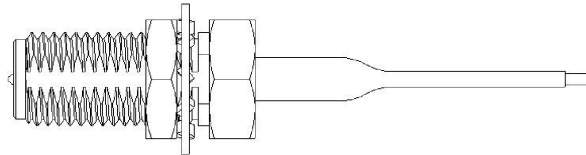
PLATING  
 10µ" MIN. GOLD CENTER CONTACT  
 3µ" MIN. GOLD OUTER CONTACT  
 3µ" MIN. GOLD REMAINING METAL PARTS  
 (END CONNECTOR P/N: MHF3-P-C-RA-CA3)

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)



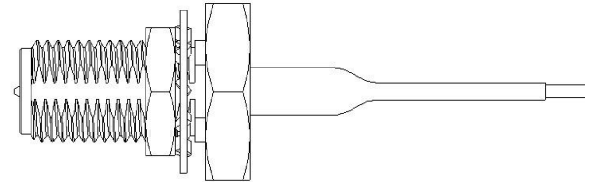
PLATING  
 30µ" MIN. GOLD CENTER CONTACT  
 3µ" MIN. GOLD OUTER CONTACT  
 3µ" MIN. GOLD REMAINING METAL PARTS  
 (END CONNECTOR P/N: SMA-J-C-H-ST-BR3)  
 OR (END CONNECTOR P/N: SMA-J-C-H-ST-BR4)

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

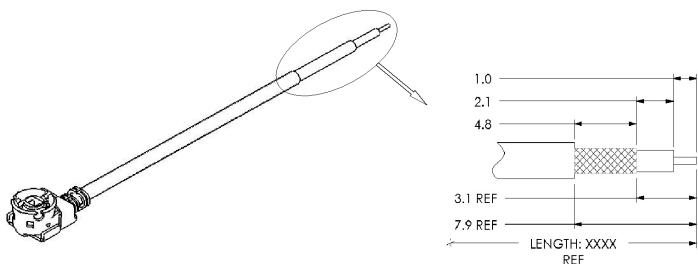
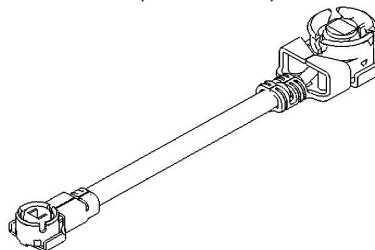


FIG. 4  
 MH081-MH3RP-MH1RP-XXXX SHOWN  
 (SEE NOTE 16)



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

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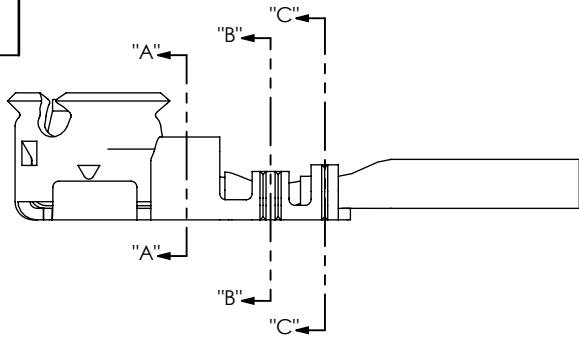


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 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: MICRO RF CABLE ASSEMBLY

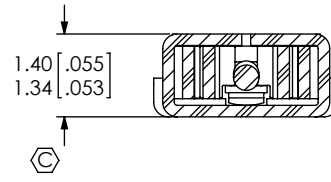
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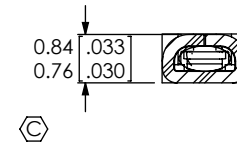


MH081-MH1RP

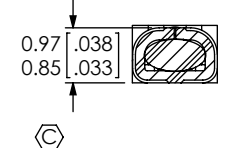
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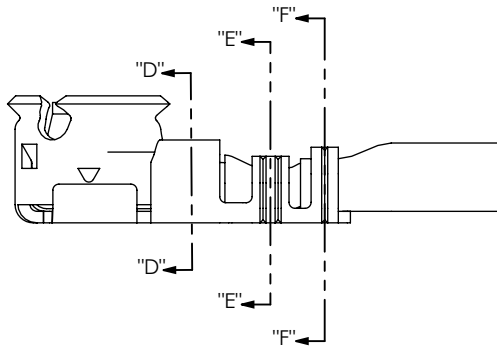
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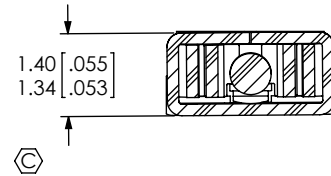
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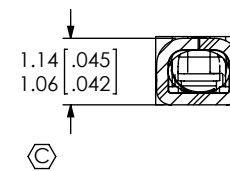
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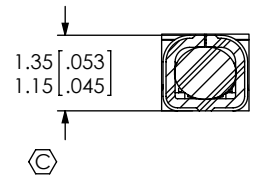
MH113-MH1RP



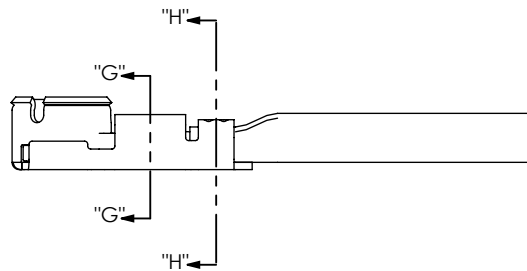
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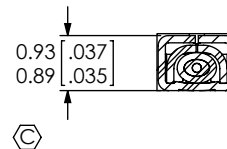
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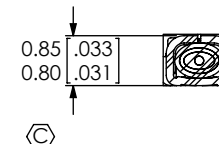
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SCALE 8 : 1



MH081-MH3RP



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



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

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DESCRIPTION:  
MICRO RF CABLE ASSEMBLY

DWG. NO.  
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