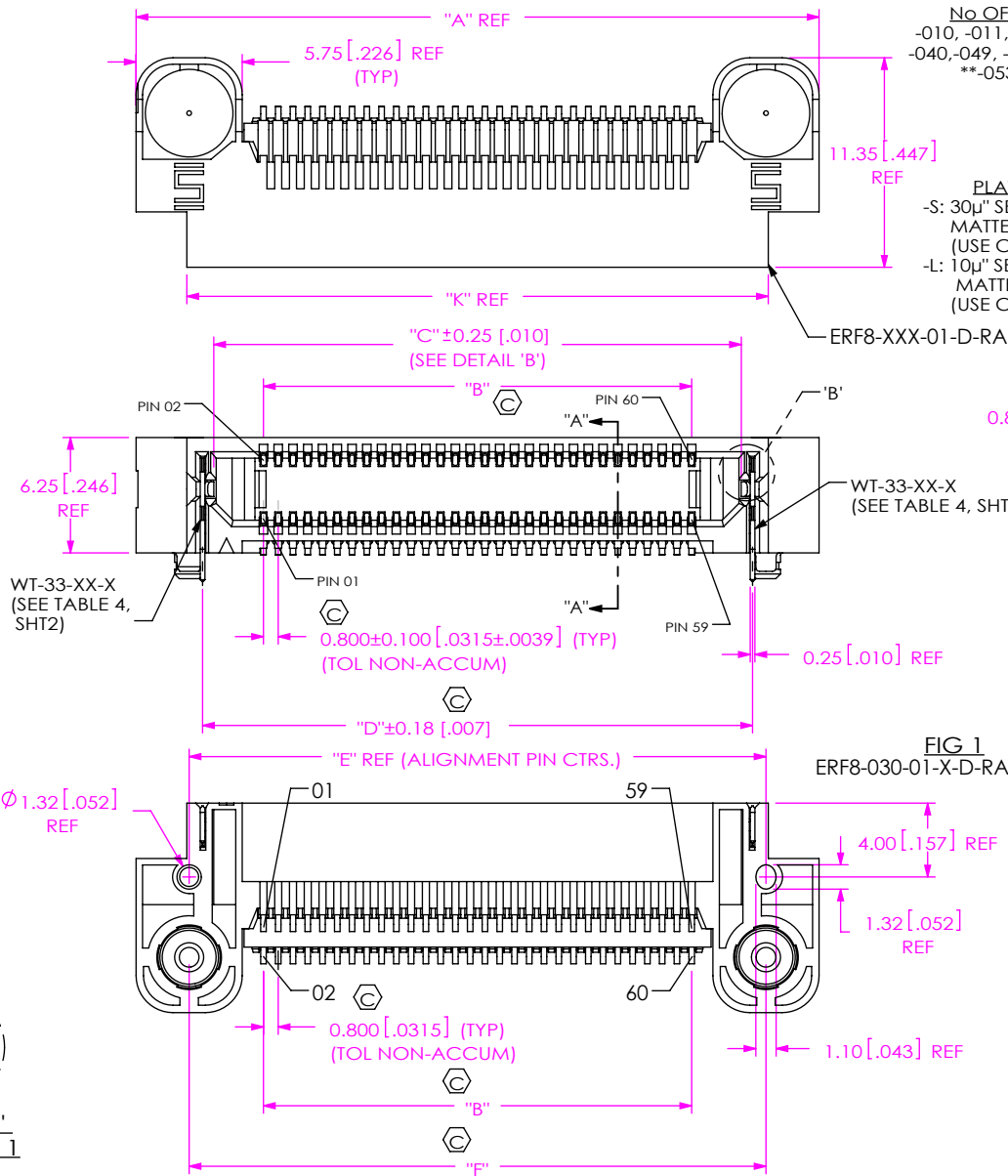


DO NOT SCALE FROM THIS PRINT



No OF POSITIONS (PER ROW)
 -010, -011, -013, -020, -025, -030, -037
 -040, -049, -050, **053, -060, -070, -075,
 **053 MATES WITH ERCDA

LEAD STYLE
 -01: 1.58 [.062] BOARD
 -03: 2.36 [.093] BOARD

PLATING SPECIFICATION
 -S: 30µ" SELECTIVE GOLD IN CONTACT AREA,
 MATTE TIN ON TAIL
 (USE C-231-02-S, C-231-03-S)
 -L: 10µ" SELECTIVE GOLD IN CONTACT AREA,
 MATTE TIN ON TAIL
 (USE C-231-02-L, C-231-03-L)

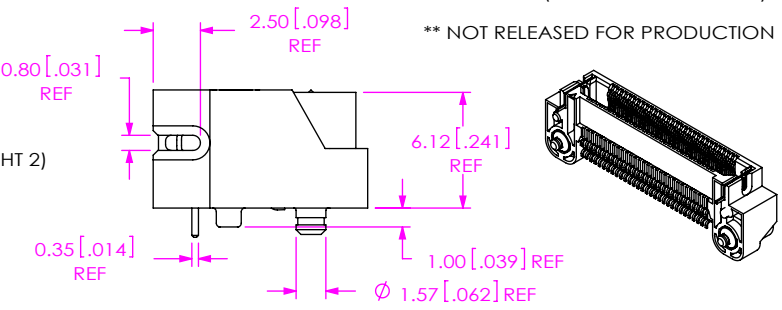
TAPE & REEL
 (SEE NOTE 17 & 18)
 -TR: TAPE & REEL
 (STANDARD PACKAGING)
 -FR: FULL REEL QTY. TAPE & REEL

OPTION
 -L: LATCHES (SEE FIG 2, SHT 2)
 -EGP: EXTENDED GUIDE POSTS
 (NOT AVAILABLE WITH -L OPTION)
 (SEE NOTE 9)

-RA: RIGHT ANGLE

ROW SPECIFICATION
 -D: DOUBLE (USE ERF8-XXX-01-D-RA)

**** NOT RELEASED FOR PRODUCTION**



- NOTES:
1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
 2. MAXIMUM BURR ALLOWANCE: 0.02 [.001].
 3. MINIMUM PUSHOUT /PULLOUT FORCE: SIGNAL: 2.22 N [.5 LB.], LATCH AND COUNTERWEIGHT: 4.45 N [1.0 LB.].
 4. NOTE DELETED.
 5. MEASURE AT BEND TANGENCY.
 6. COPLANARITY MEASURED ON PINS ONLY, INSULATOR NOT INCLUDED IN MEASUREMENT.
 7. ALL DIMENSIONS SYMMETRIC ABOUT C_q EXCEPT AS SHOWN.
 8. DELETED.
 9. BOTH NON AND -EGP OPTION PARTS ARE IDENTICAL, THUS INTERCHANGEABLE.
 10. DIMENSIONS MUST BE MEASURED BOTH ENDS OF COMB OR CONNECTOR.
 11. USE -E- DATUM ZONE FOR MEASUREMENTS ONLY.
 12. SEE PTL SYSTEM FOR REQUIRED INSPECTION FIXTURE TO CHECK TAIL CRITICALS.
 13. USE -D- DATUM ZONE FOR MEASUREMENTS ONLY.
 14. USE -Z- DATUM ZONE FOR MEASUREMENTS ONLY.
 15. WHEN USING AUTOMATED FORMER, COMBS DO NOT NEED TO BE MEASURED AT BOTH ENDS PER NOTE 10, ALL FORM CRITICAL DIMENSIONS CAN BE CHECKED BY VERTEX, AND FORM 1 CRITICAL DIMENSIONS ARE TO BE MEASURED AT FORM 2 PROCESS STEPS.
 16. NOTE DELETED.
 17. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
 18. ATTACH LABEL TO EACH REEL.

FIG 1
ERF8-030-01-X-D-RA SHOWN

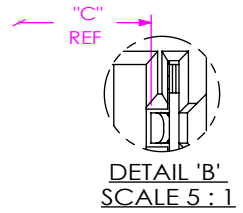


TABLE 1

POSITION	"A"	"B"	"C"	"D"	"E"	"F"	"K"
-010	21.00 [.827]	7.20 [.283]	12.54 [.494]	13.80 [.543]	15.25 [.600]	15.25 [.600]	15.5 [.61]
-011	21.80 [.858]	8.00 [.315]	13.34 [.525]	14.60 [.575]	16.05 [.632]	16.05 [.632]	16.3 [.64]
-013	23.40 [.921]	9.60 [.378]	14.94 [.588]	16.20 [.638]	17.65 [.695]	17.65 [.695]	17.9 [.70]
-020	29.00 [1.142]	15.20 [.598]	20.54 [.809]	21.80 [.858]	23.25 [.915]	23.25 [.915]	23.5 [.93]
-025	33.00 [1.299]	19.20 [.756]	24.54 [1.986]	25.80 [1.016]	27.25 [1.073]	27.25 [1.073]	27.5 [1.08]
-030	37.00 [1.457]	23.20 [.913]	28.54 [1.124]	29.80 [1.173]	31.25 [1.230]	31.25 [1.230]	31.5 [1.24]
-037	42.80 [1.677]	28.80 [1.134]	34.14 [1.344]	35.40 [1.394]	36.85 [1.451]	36.85 [1.451]	37.1 [1.48]
-040	45.00 [1.772]	31.20 [1.228]	36.54 [1.439]	37.80 [1.488]	39.25 [1.545]	39.25 [1.545]	39.5 [1.56]
-049	52.20 [2.055]	38.40 [1.512]	43.74 [1.722]	45.00 [1.772]	46.45 [1.829]	46.45 [1.829]	46.7 [1.84]
-050	53.00 [2.087]	39.20 [1.543]	44.54 [1.754]	45.80 [1.803]	47.25 [1.860]	47.25 [1.860]	47.5 [1.87]
-053	55.40 [2.181]	41.60 [1.638]	46.94 [1.848]	48.20 [1.896]	49.65 [1.955]	49.65 [1.955]	49.9 [1.96]
-060	61.00 [2.402]	47.20 [1.858]	52.54 [2.069]	53.80 [2.118]	55.25 [2.175]	55.25 [2.175]	55.5 [2.19]
-070	69.00 [2.717]	55.20 [2.173]	60.54 [2.383]	61.80 [2.433]	63.25 [2.490]	63.25 [2.490]	63.5 [2.50]
-075	73.00 [2.874]	59.20 [2.331]	64.54 [2.541]	65.80 [2.591]	67.25 [2.648]	67.25 [2.648]	67.5 [2.68]

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE: DECIMALS ANGLES 2°

.X: ±0.3 [.01]
 .XX: ±0.13 [.005]
 .XXX: ±0.050 [.0020]

MATERIAL: DO NOT SCALE DRAWING
 INSULATOR: LCP UL94V-0, COLOR BLACK
 CONTACTS: BeCu
 COUNTERWEIGHT: BRASS
 LATCHES: BeCu

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SHEET SCALE: 2:1

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 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail: info@SAMTEC.com code 53322

DESCRIPTION:
 0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY
 DWG. NO. ERF8-XXX-XX-X-D-RA-XXX-XR
 BY: D BOYCE 08-10-2010 SHEET 1 OF 6

F:\DOW\MISC\MKTG\ERF8-XXX-XX-X-D-RA-XXX-XR-MKT.SLDDRW

TABLE 4

OPTION	STYLE	BODY CALLOUT	CONTACTS	COUNTERWEIGHT	WELD TABS	"H"	"J"
NONE / -EGP (SEE NOTE 9)	-01	ERF8-XXX-01-D-RA	C-231-02-X	T-1R37-01-T	WT-33-05-T	1.55 [.061]	1.40 [.055]
			C-231-03-X		WT-33-06-T		
	-03	ERF8-XXX-01-D-RA	C-231-02-X	T-1R37-02-T	WT-33-07-T	2.34 [.092]	2.19 [.086]
			C-231-03-X		WT-33-08-T		
-L	-01	ERF8-XXX-01-D-RA	C-231-02-X	T-1R37-01-T	WT-33-01-F	1.55 [.061]	1.40 [.055]
			C-231-03-X		WT-33-02-F		
	-03	ERF8-XXX-01-D-RA	C-231-02-X	T-1R37-02-T	WT-33-03-F	2.34 [.092]	2.19 [.086]
			C-231-03-X		WT-33-04-F		

TABLE 3

POSITION	"G"	
-010	11.14	[.439]
-011	11.94	[.470]
-013	13.54	[.533]
-020	19.14	[.754]
-025	23.14	[.911]
-030	27.14	[1.069]
-037	32.74	[1.289]
-040	35.14	[1.383]
-49	42.34	[1.667]
-050	43.14	[1.698]
-53	45.54	[1.793]
-060	51.14	[2.013]
-070	59.14	[2.328]
-075	63.14	[2.486]

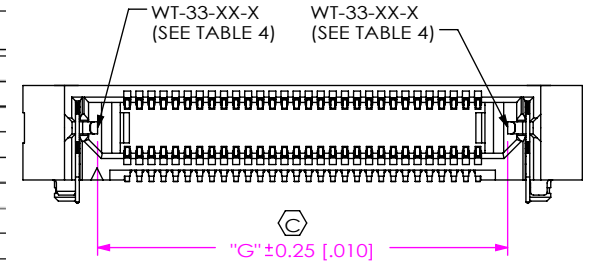


FIG 2
ERF8-030-01-X-D-RA-L SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

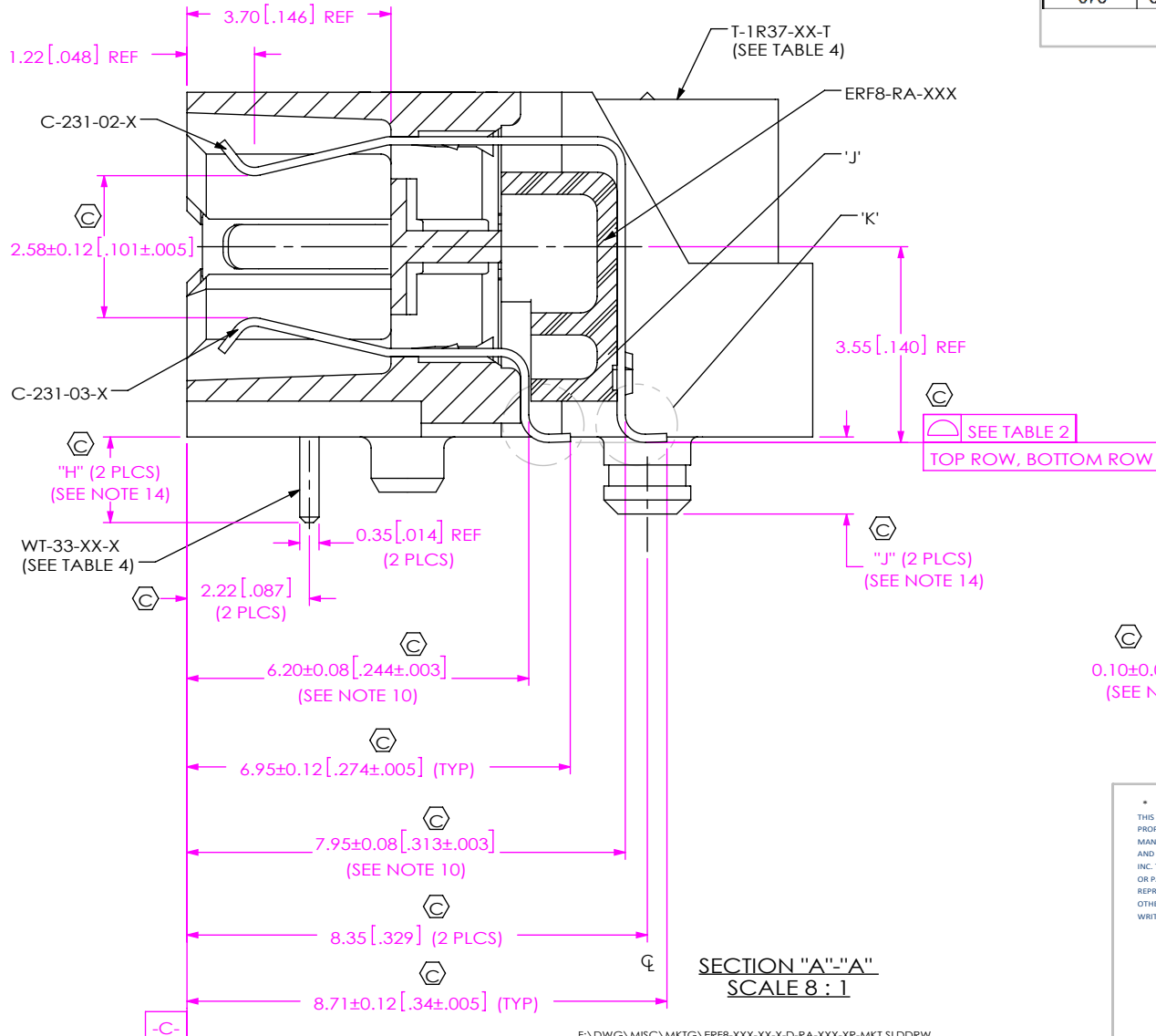
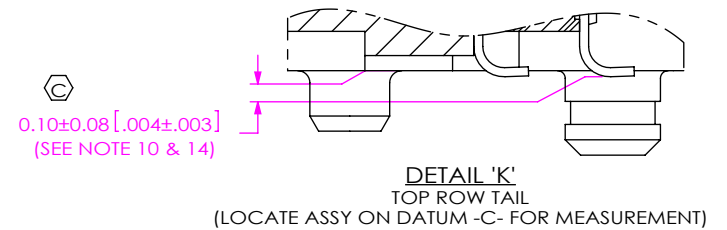
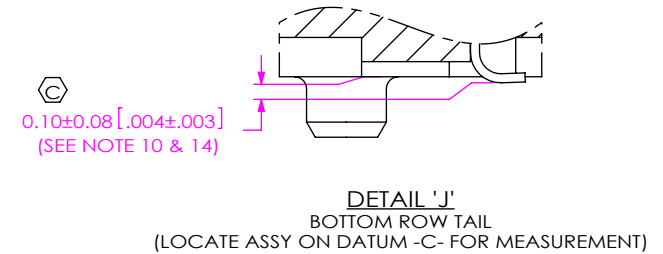


TABLE 2

No OF POSITIONS	BOTTOM ROW STRAIGHTNESS	TOP ROW STRAIGHTNESS	COPLANARITY (SEE NOTE 6)
-010 THRU -053	0.08 [.003]	0.08 [.003]	0.10 [.004]
-060 THRU -075	0.10 [.004]	0.10 [.004]	0.15 [.006]



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SHEET SCALE: 6:1



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e-Mail info@SAMTEC.com code 53322

DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-XR

BY: D BOYCE 08-10-2010 SHEET 2 OF 6

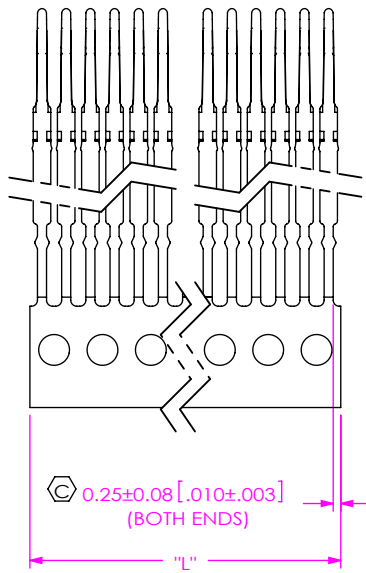
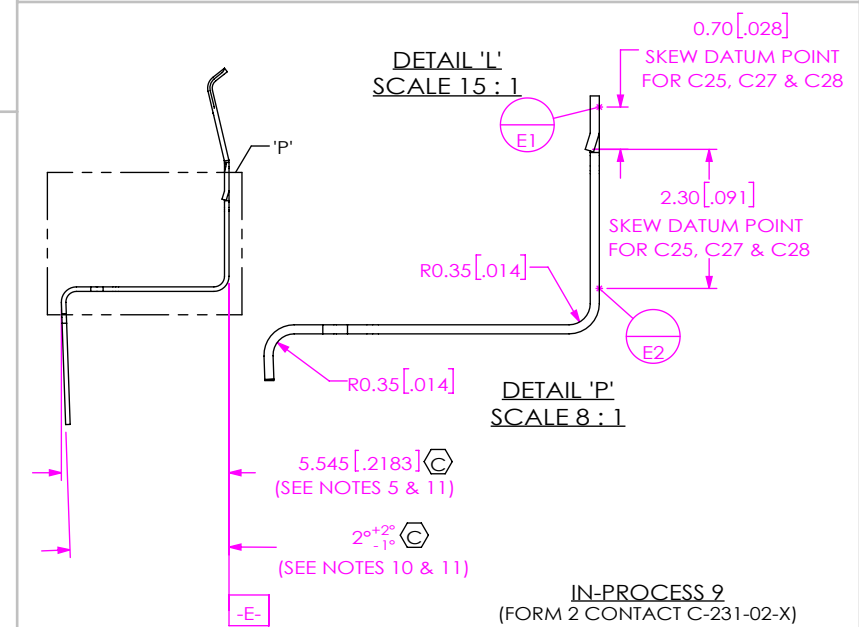
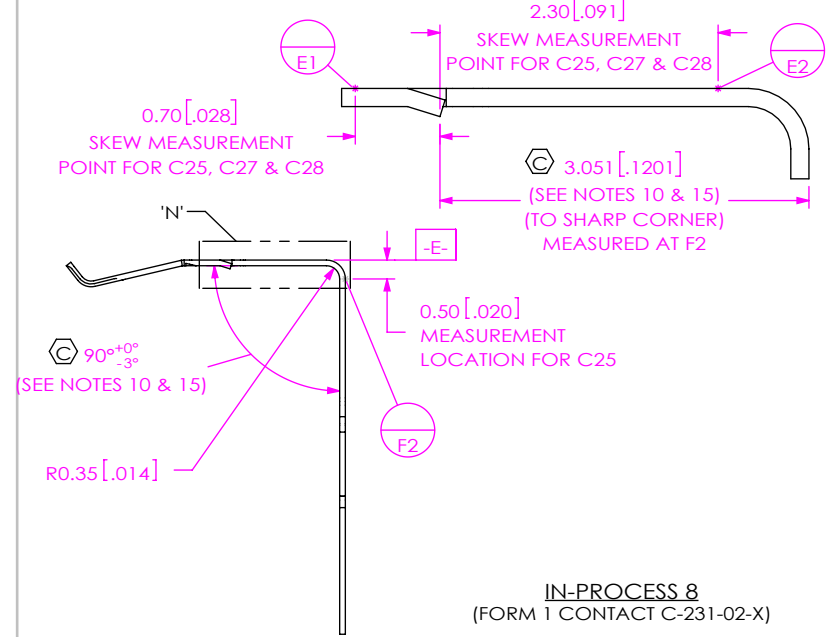
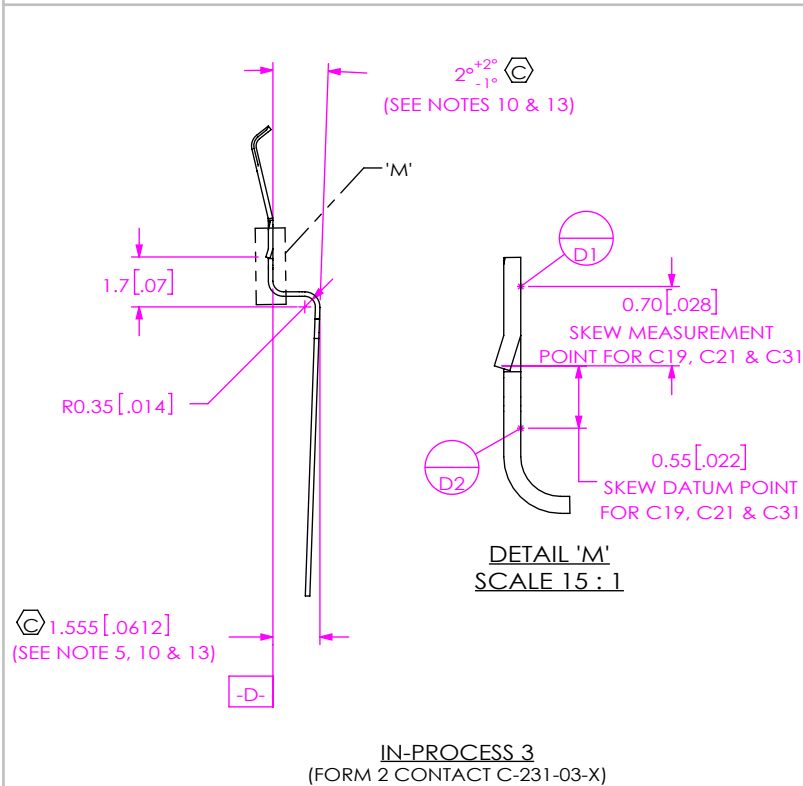
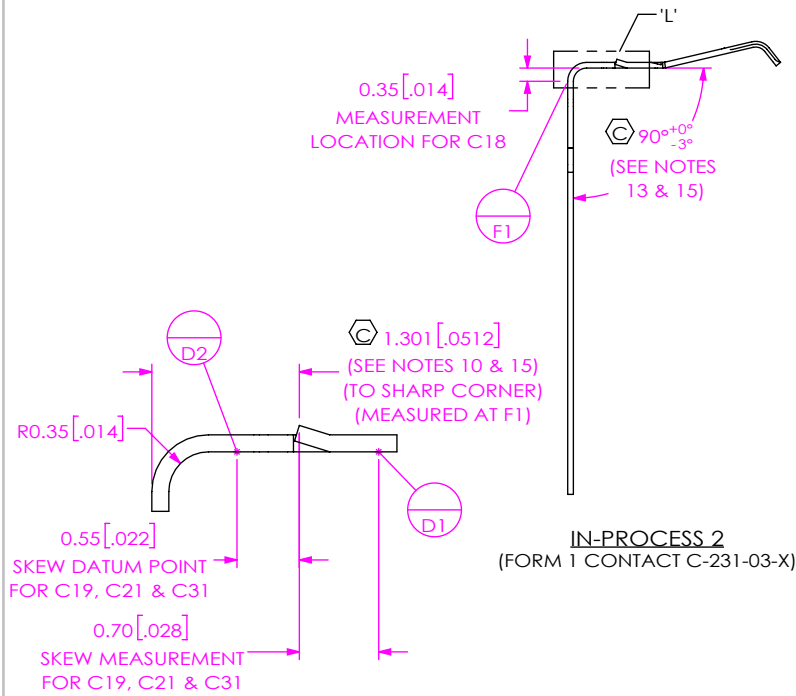


TABLE 6

POSITION	"L"
-010	8.00 [.315]
-011	8.80 [.3480]
-013	10.10 [.398]
-020	16.00 [.63]
-025	20.00 [.787]
-030	24.00 [.945]
-037	29.60 [1.165]
-040	32.00 [1.26]
-49	39.20 [1.543]
-050	40.00 [1.575]
-53	42.40 [1.689]
-060	48.00 [1.89]
-070	56.00 [2.205]
-075	60.00 [2.362]

IN PROCESS 1 & 7
(COMB CUT CONTACT
C-231-03-X & C-231-02-X)

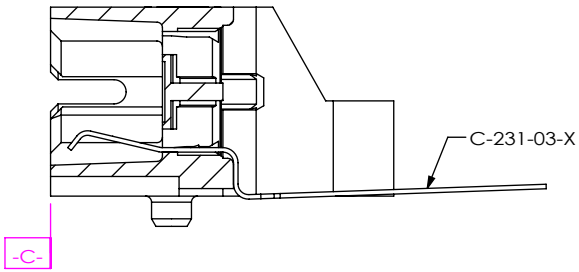


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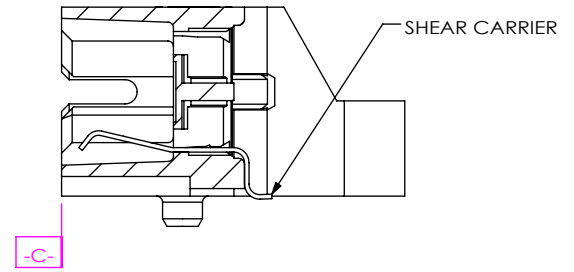
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SHEET SCALE: 4:1

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0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY
DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-XR
BY: D BOYCE 08-10-2010 SHEET 3 OF 6

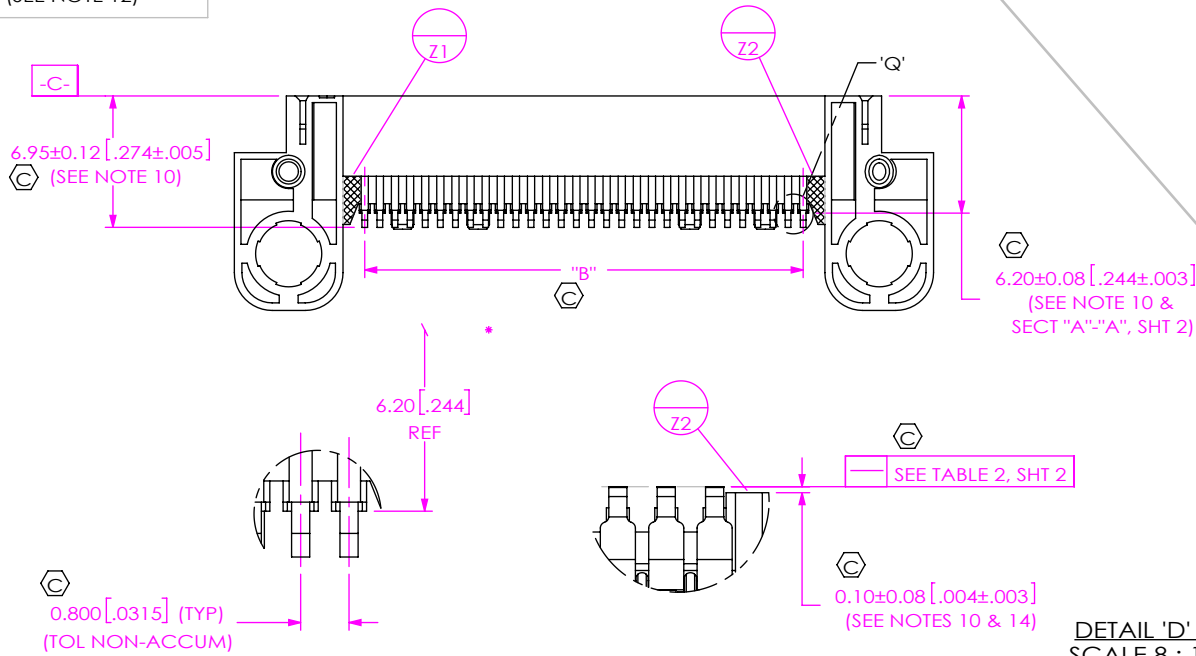


IN-PROCESS 4
(FILL BOTTOM ROW)
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)



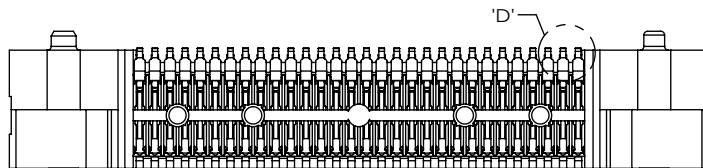
IN-PROCESS 5
(CUTOFF OF CARRIER)
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)

INSPECTION VIEW 1
(SEE NOTE 12)

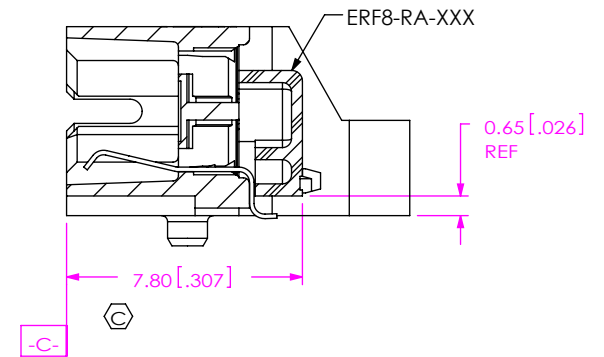


DETAIL 'Q'
SCALE 8 : 1

DETAIL 'D'
SCALE 8 : 1



INSPECTION FOR IN-PROCESS 4 & 5
(CARRIER NOT SHOWN FOR IN PROCESS 4 INSPECTIONS)



IN-PROCESS 6
(FILL ERF8-RA-XXX)

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SHEET SCALE: 4:1

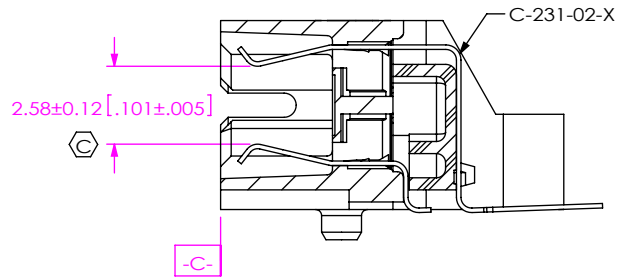


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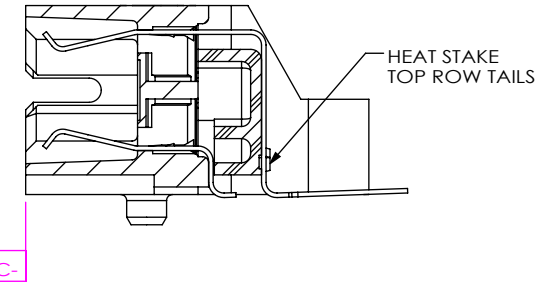
DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-XR

BY: D BOYCE 08-10-2010 SHEET 4 OF 6

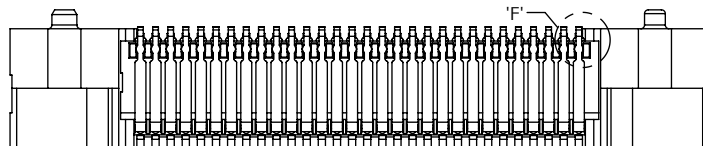
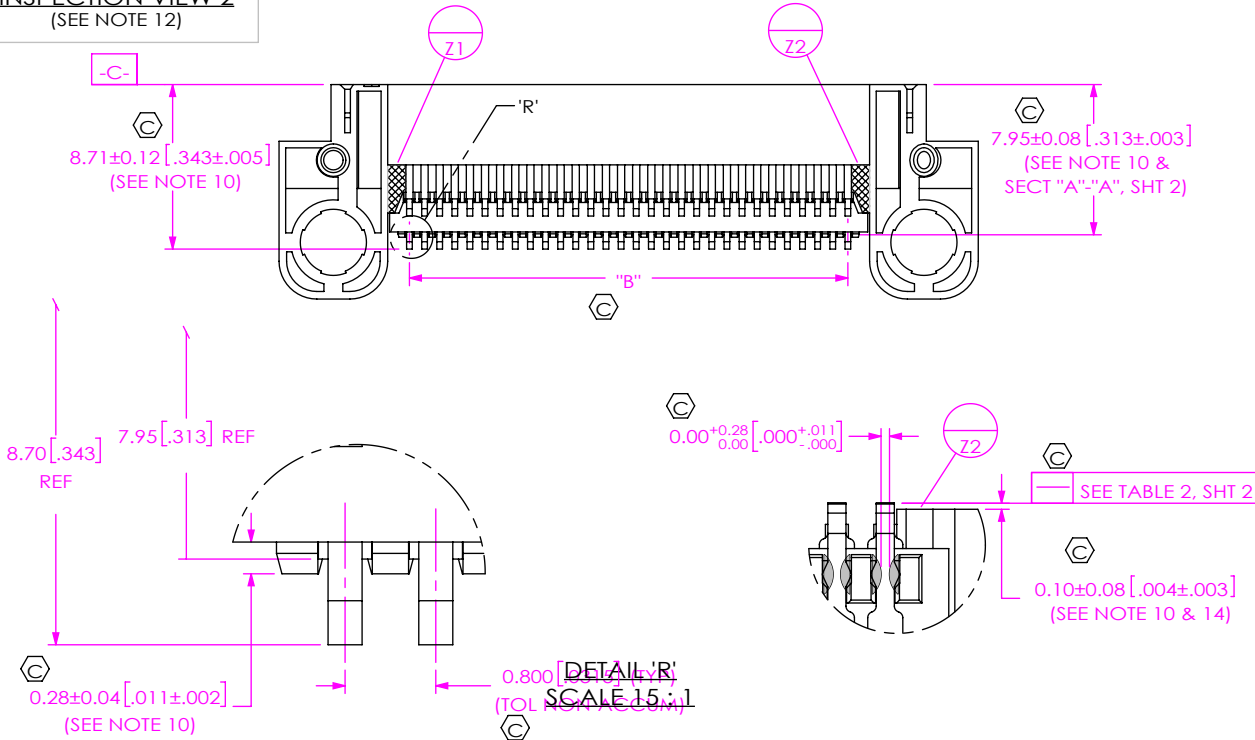


IN-PROCESS 10
(FILL TOP ROW)
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

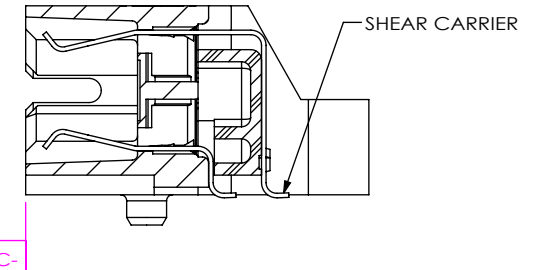


IN-PROCESS 11
(HEAT STAKE TOP ROW CONTACTS)
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

INSPECTION VIEW 2
(SEE NOTE 12)



INSPECTION FOR IN-PROCESS 10, 11 & 12
(CARRIER NOT SHOWN FOR IN PROCESS 10 & 11 INSPECTIONS)



IN-PROCESS 12
(CUTOFF OF CARRIER)
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

DETAIL 'F'
SCALE 8 : 1

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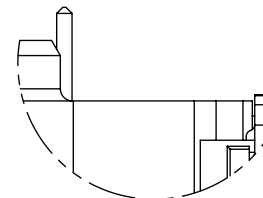
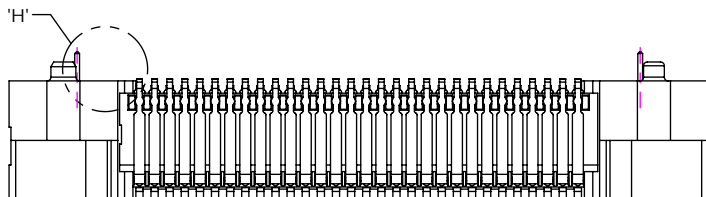
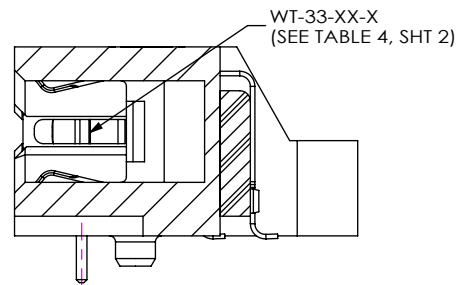
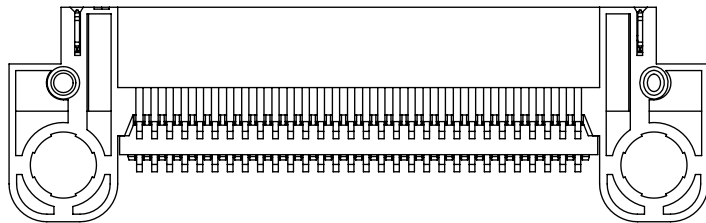


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DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

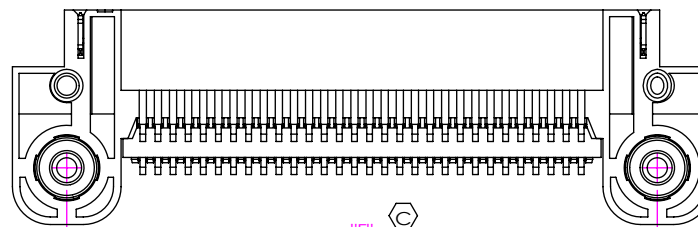
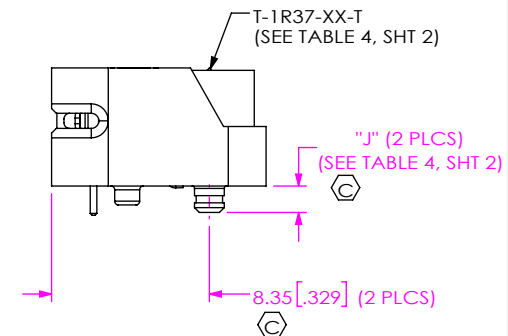
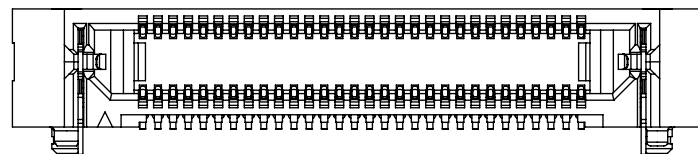
DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-XR

BY: D BOYCE 08-10-2010 SHEET 5 OF 6



IN-PROCESS 13
(FILL WT-33-XX-X)

DETAIL 'H'
SCALE 8 : 1



"F"
(SEE TABLE 1, SHT 1)

IN-PROCESS 14
(FILL T-1R37-XX-T)

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SHEET SCALE: 4:1



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 0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-XR

BY: D BOYCE 08-10-2010 SHEET 6 OF 6