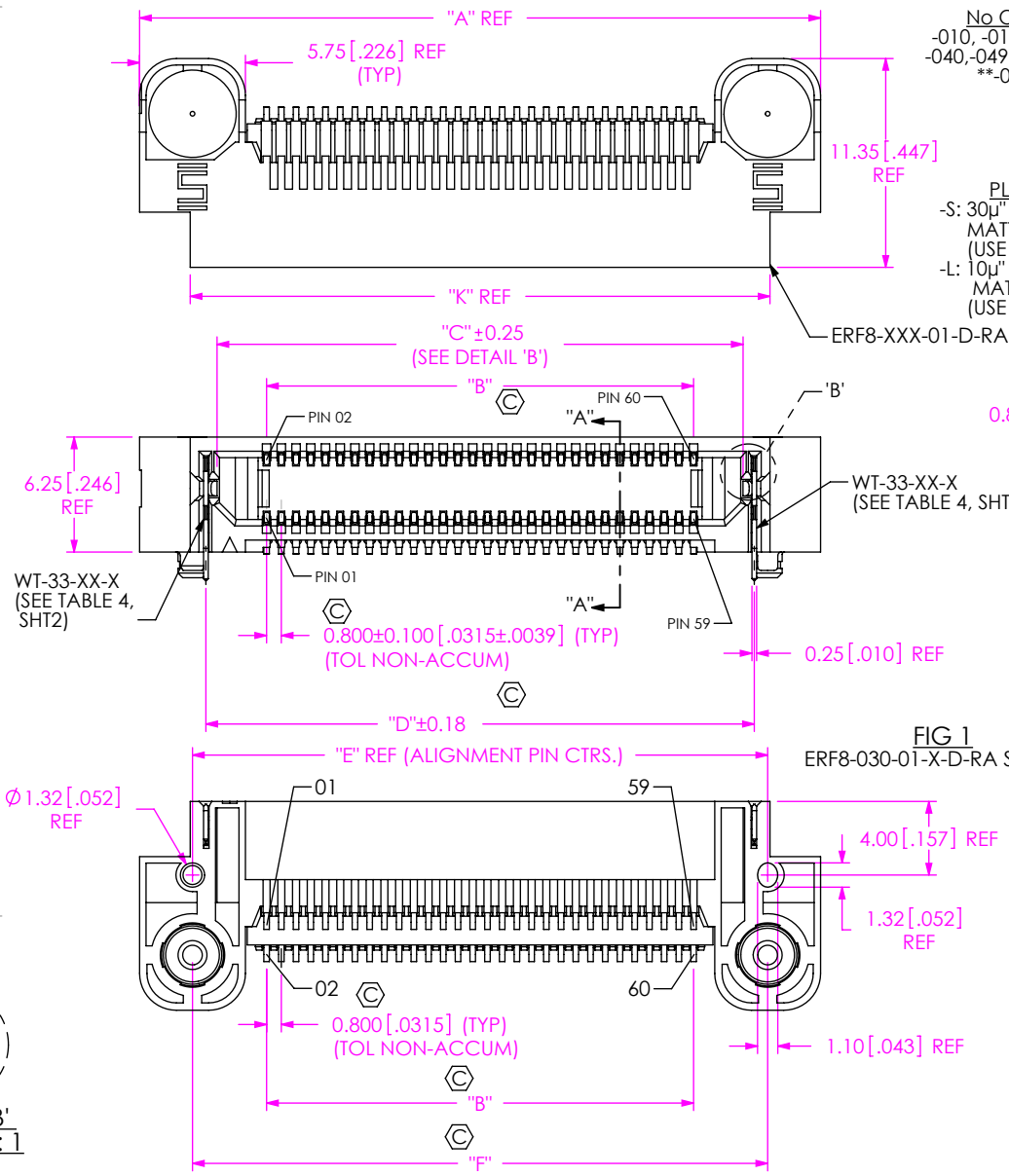


DO NOT SCALE FROM THIS PRINT



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

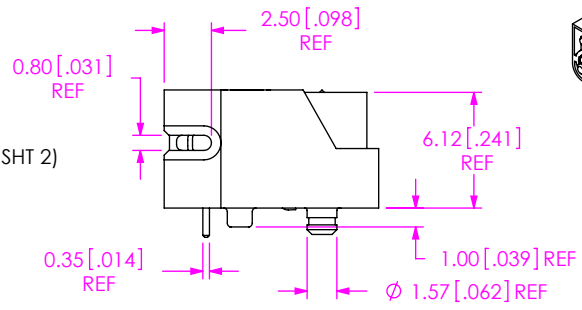
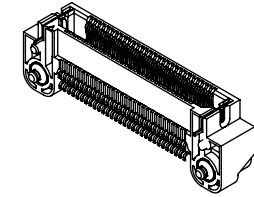
OPTION
 -TR: TAPE & REEL
 (STANDARD PACKAGING)
 (SEE NOTE 4)

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. FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR EIA-481-D REEL WILL BE SUPPLIED. FOR QUANTITIES FROM 50-124 PIECES, NO LEADER OR TRAILER WILL BE SUPPLIED.
5. MEASURE AT BEND TANGENCY.
6. COPLANARITY MEASURED ON PINS ONLY, INSULATOR NOT INCLUDED IN MEASUREMENT.
7. ALL DIMENSIONS SYMMETRIC ABOUT Q̄ 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.

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

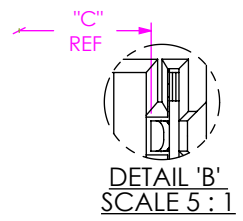


TABLE 1

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 [.966]	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 [1.46]
-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 [1.898]	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 [2.66]

** NOT RELEASED FOR PRODUCTION

UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN MILLIMETERS [INCHES].
 TOLERANCES ARE:
 DECIMALS ANGLES
 .X: ±0.3 [.01] 2°
 .XX: ±0.13 [.005]
 .XXX: ±0.050 [.0020]

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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

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

SHEET SCALE: 2:1

DESCRIPTION:
 0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY
 DWG. NO.

ERF8-XXX-XX-X-D-RA-XXX-TR

BY: D BOYCE 08-10-2010 SHEET 1 OF 6

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]
**053	45.54 [1.793]
-060	51.14 [2.013]
-070	59.14 [2.328]
-075	63.14 [2.486]

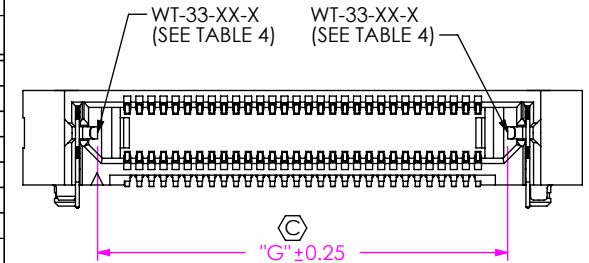


FIG 2
ERF8-030-01-X-D-RA-L SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

**NOT RELEASED FOR PRODUCTION

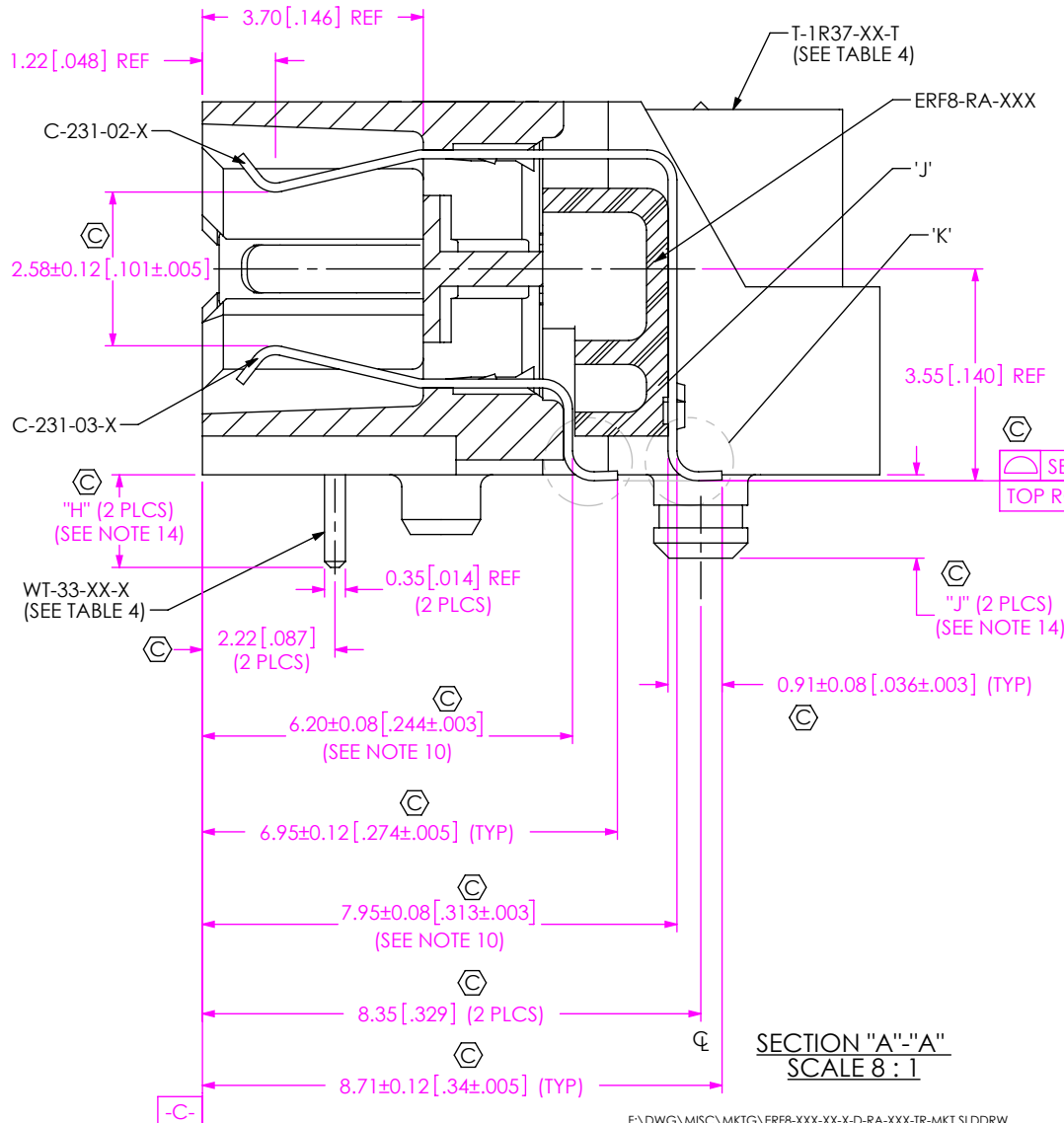
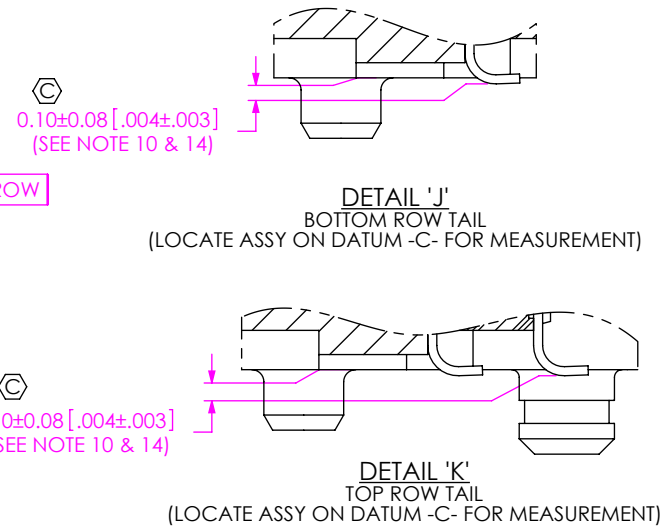


TABLE 2

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 55322

DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

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

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

REVISION AF

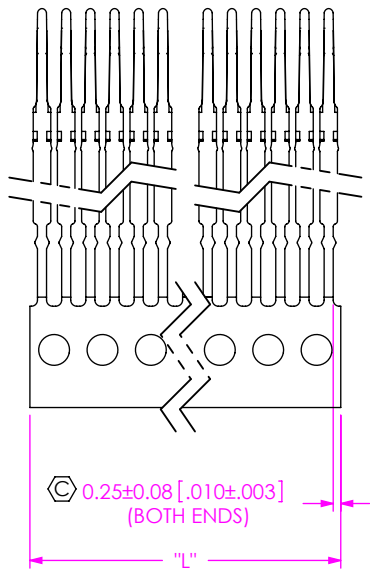
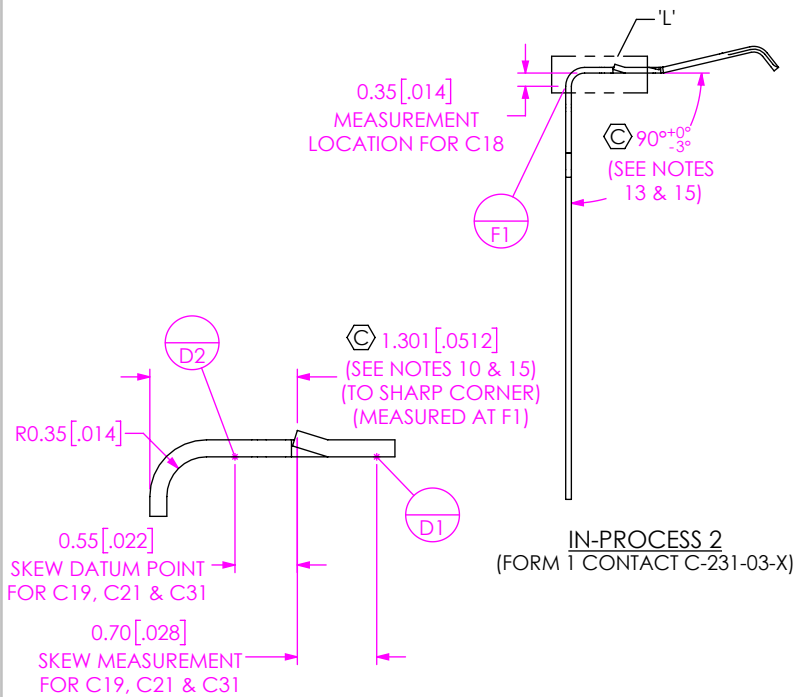


TABLE 6

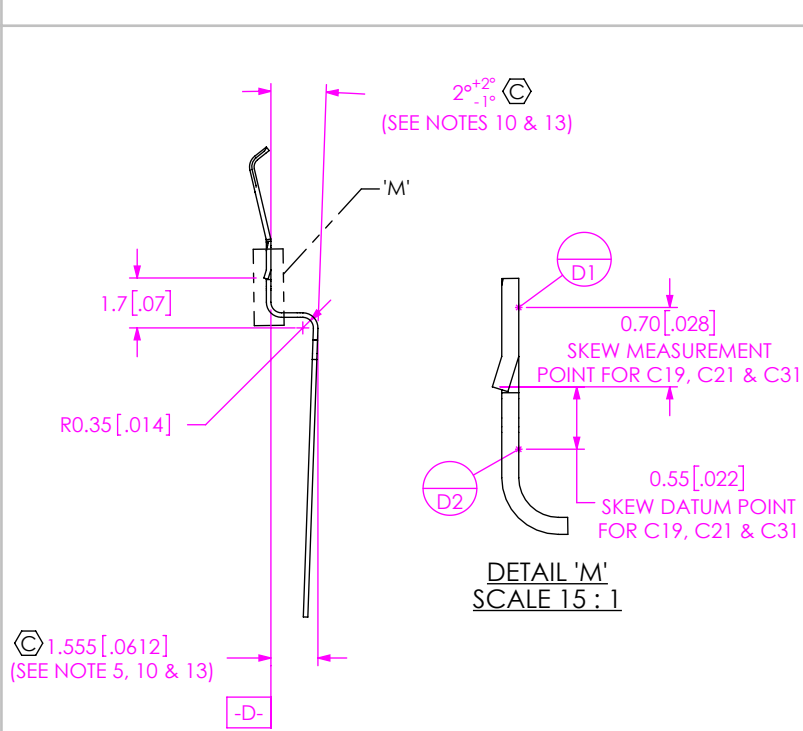
POSITION	"L"
-010	8.00 [.315]
-011	8.80 [.3460]
-013	10.10 [.398]
-020	16.00 [.63]
-025	20.00 [.787]
-030	24.00 [.945]
-037	29.60 [1.165]
-040	32.00 [1.26]
-49	39.20 [1.543]
-050	40.00 [1.575]
**053	42.40 [1.669]
-060	48.00 [1.89]
-070	56.00 [2.205]
-075	60.00 [2.362]

(** = NOT RELEASED FOR PRODUCTION)

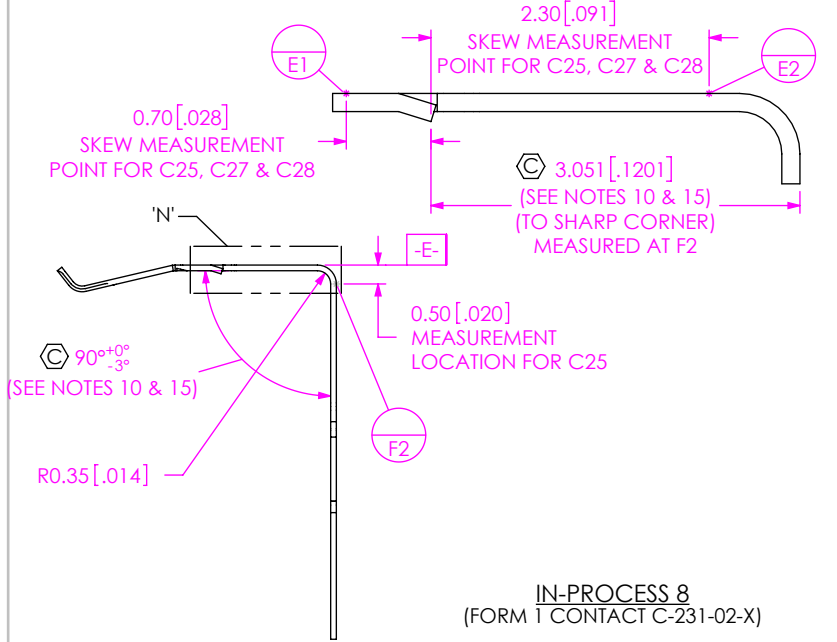
IN PROCESS 1 & 7
(COMB CUT CONTACT
C-231-03-X & C-231-02-X)



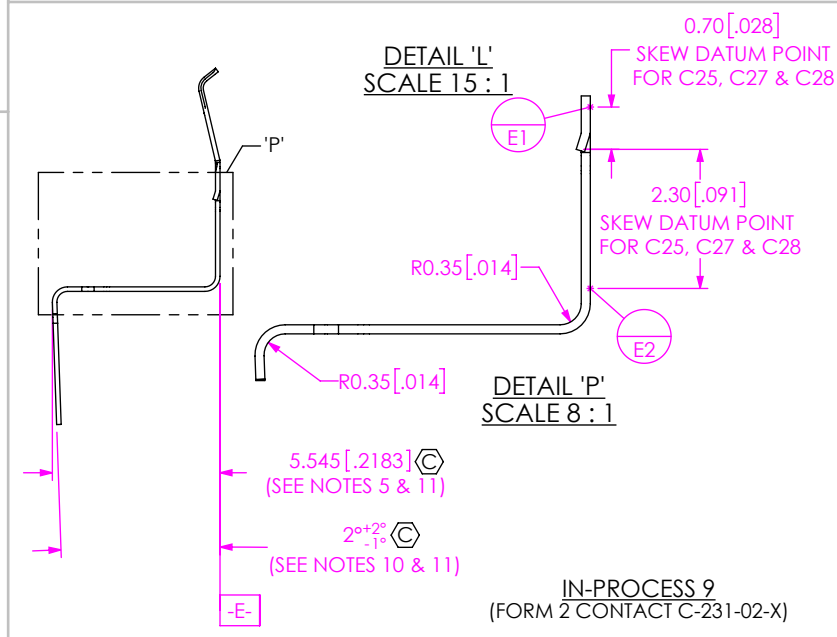
IN-PROCESS 2
(FORM 1 CONTACT C-231-03-X)



IN-PROCESS 3
(FORM 2 CONTACT C-231-03-X)



IN-PROCESS 8
(FORM 1 CONTACT C-231-02-X)



IN-PROCESS 9
(FORM 2 CONTACT C-231-02-X)

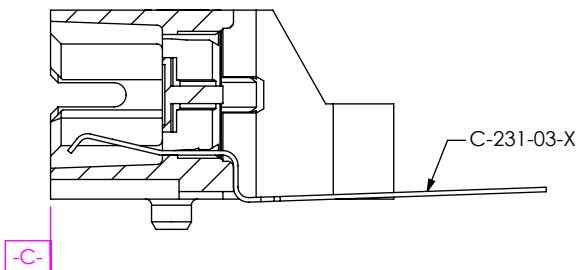
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SHEET SCALE: 4:1

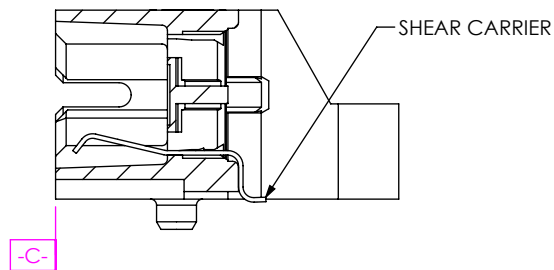


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e-Mail info@SAMTEC.com code 55322

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

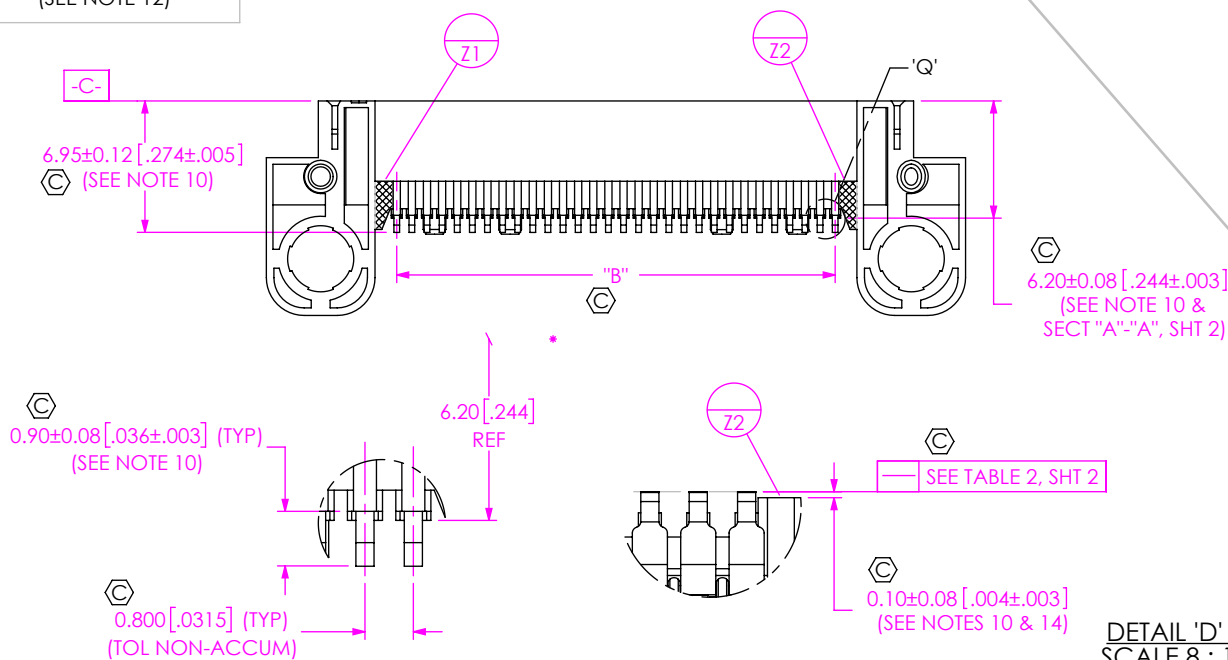


IN-PROCESS 4
(FILL BOTTOM ROW)
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)



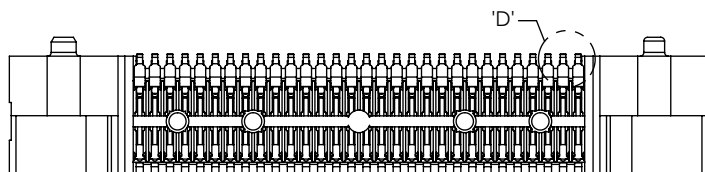
IN-PROCESS 5
(CUTOFF OF CARRIER)
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)

INSPECTION VIEW 1
(SEE NOTE 12)

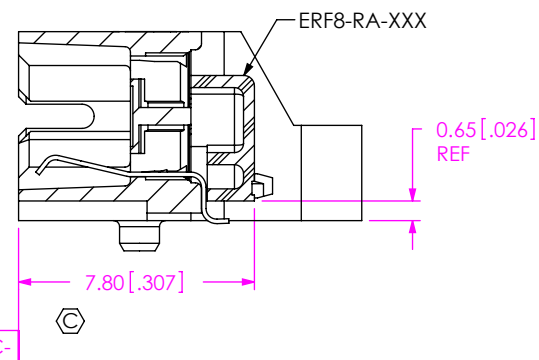


DETAIL 'Q'
SCALE 8 : 1

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)

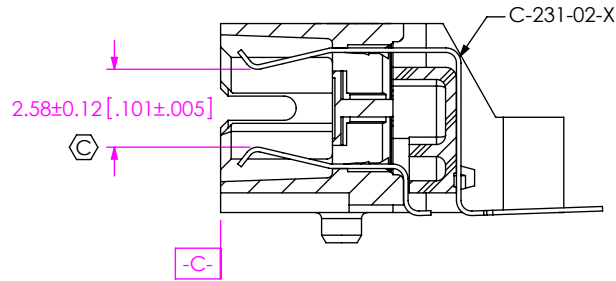
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SHEET SCALE: 4:1

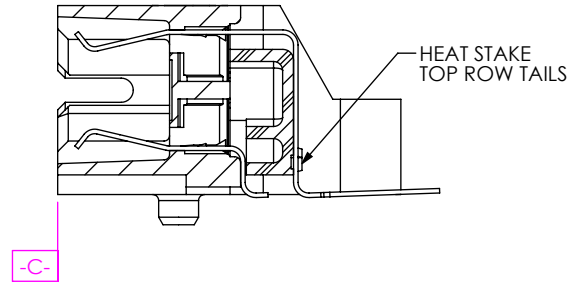


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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY
DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-TR
BY: D BOYCE 08-10-2010 SHEET 4 OF 6

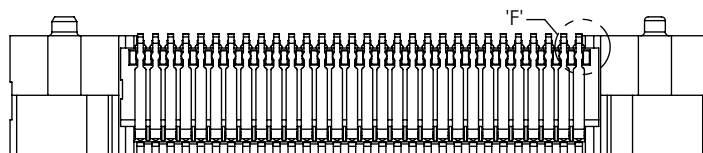
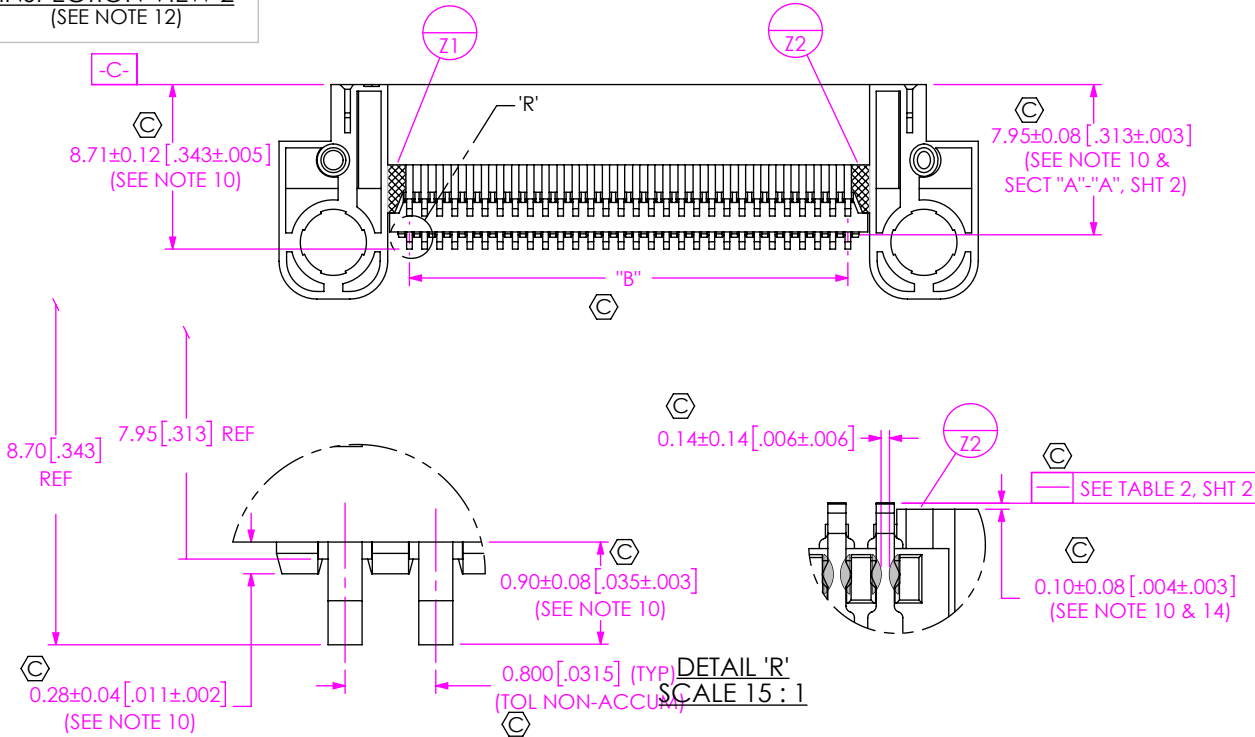


IN-PROCESS 10
(FILL TOP ROW)
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

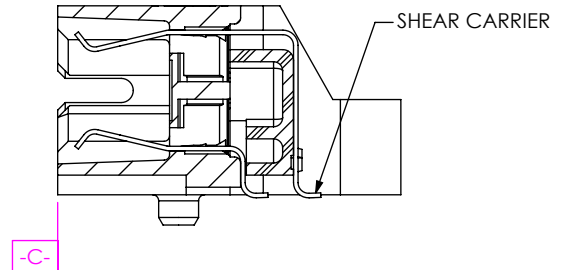


IN-PROCESS 11
(HEAT STAKE TOP ROW CONTACTS)
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

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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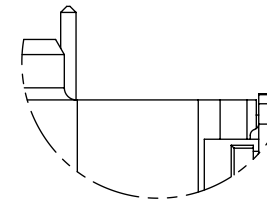
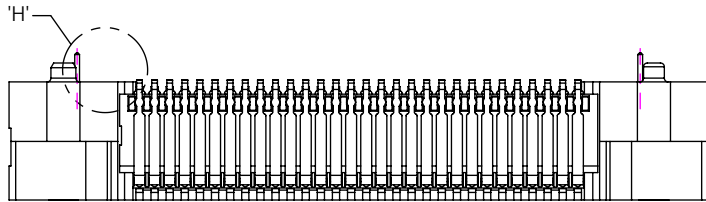
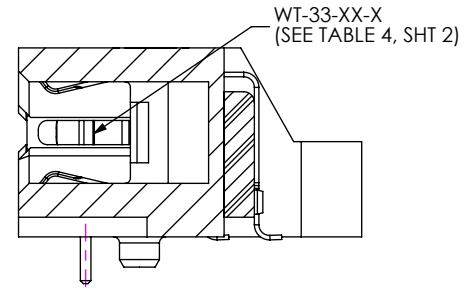
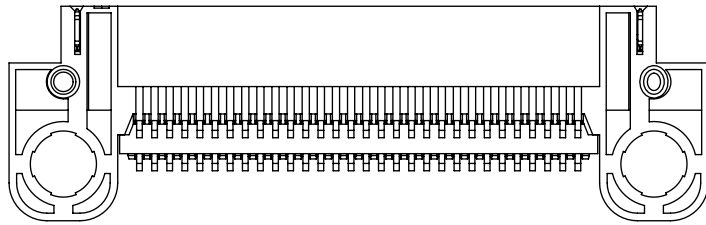
DO NOT SCALE DRAWING

SHEET SCALE: 4:1



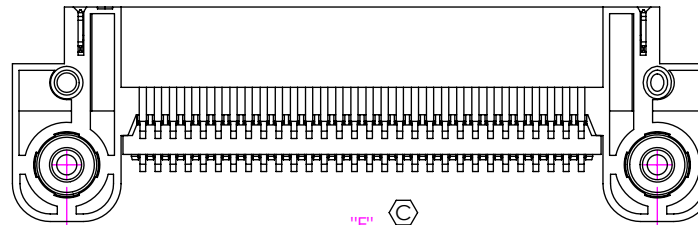
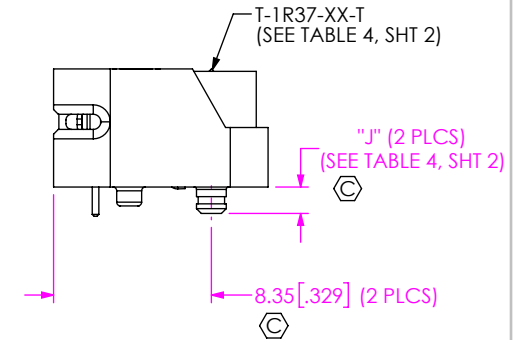
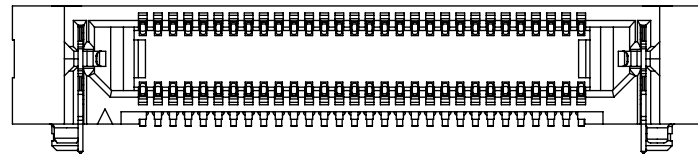
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 5332

DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY
DWG. NO.
ERF8-XXX-XX-X-D-RA-XXX-TR
BY: D BOYCE 08-10-2010 SHEET 5 OF 6



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

DETAIL 'H'
SCALE 8:1



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

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DO NOT SCALE DRAWING

SHEET SCALE: 4:1



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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
0.8mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

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

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