

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

ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

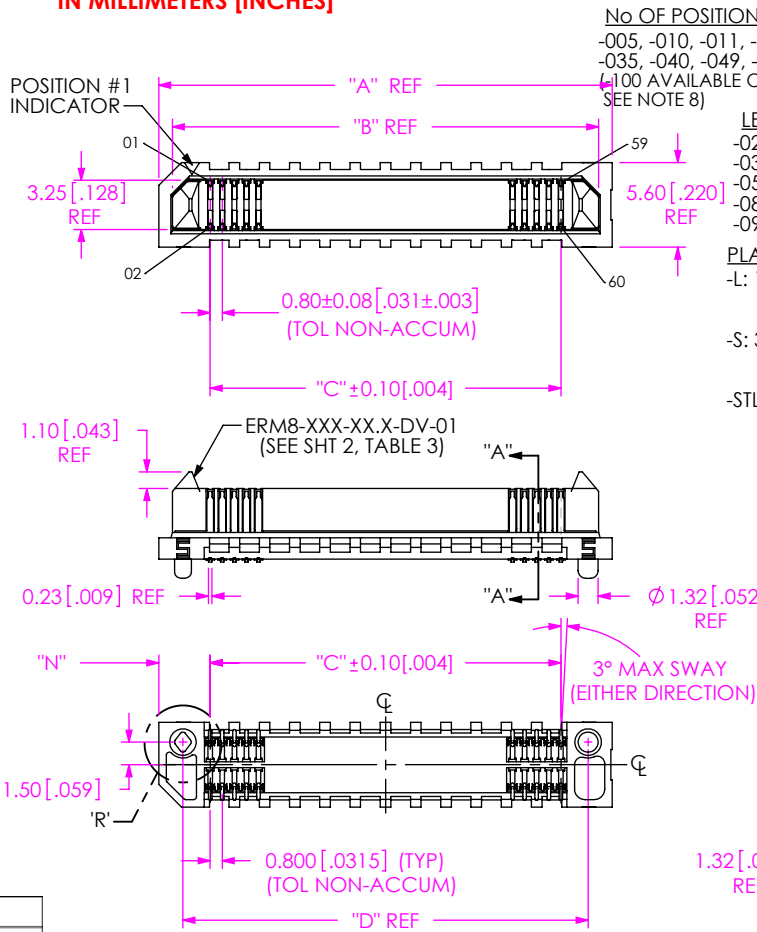


FIG 1
(ERM8-030-02.0-XXX-DV-XX SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

No OF POSITIONS (PER ROW)
-005, -010, -011, -013, -020, -025, -030,
-035, -040, -049, -050, -060, -070, -075, -100
(100 AVAILABLE ON -09.0 LEAD STYLE ONLY
SEE NOTE 8)

LEAD STYLE
-02.0 = 2mm (SEE NOTE 9)
-03.0 = 3mm (SEE NOTE 12)
-05.0 = 5mm
-08.0 = 8mm
-09.0 = 9mm

PLATING SPECIFICATION
-L: 10µ" LIGHT SELECTIVE GOLD
IN CONTACT AREA,
MATTE TIN ON TAIL
-S: 30µ" SELECTIVE GOLD
IN CONTACT AREA,
MATTE TIN ON TAIL
-STL: 30µ" SELECTIVE GOLD
IN CONTACT AREA,
TIN/LEAD (90/10+/-5%) TAIL

ROW SPECIFICATION
-DV: DOUBLE VERTICAL

PACKAGING

-TR: TAPE & REEL (SEE NOTES 7 & 9)
-FR: FULL REEL QTY. TAPE & REEL (SEE NOTE 7)
-BLANK: TRAY (SEE NOTE 7)

PICK & PLACE OPTION

-K: POLYIMIDE FILM PAD (SEE NOTE 9) (SEE FIG 2, SHT 3)
(USE K-DOT-.157-.250-.005)
-P: PICK AND PLACE PAD
(AVAILABLE ON -02.0, -03.0 AND -05.0 LEAD STYLES ONLY)
(-020 THRU -075 POSITIONS USE PPP-87) (SEE TABLE 12, SHT 6)
(-005 THRU -013 POSITIONS USE PPP-88) (SEE TABLE 12, SHT 6)
(NOT AVAILABLE WITH -DS OPTION)

OPTIONS

-DS: DIFFERENTIAL PAIR (HOT SWAP) (SEE FIG 3, SHT 2)
(AVAILABLE ONLY ON -05.0 LEAD STYLE)
(SEE TABLE 4 FOR POSITION AVAILABILITY)
-L: LATCHES (SEE FIG 3, SHT 2)
(AVAILABLE ONLY ON -03.0, -05.0 & -09.0)
(SEE TABLE FOR AVAILABILITY) (SEE TABLE 4, SHT 2)
(NOT AVAILABLE WITH -EGP & -EGPS OPTIONS)
-S: SHIELD (SEE FIG 8, SHT 5)
(NOT AVAILABLE WITH -EGP & -EGPS)
(AVAILABLE ONLY ON -02.0, -03.0, -05.0 &
-09.0 LEAD STYLES)
(-010, -020, -025 & -030-POS ONLY)
-EGP: EXTENDED GUIDE POSTS (SEE FIG 5, SHT 3)
(AVAILABLE ONLY ON -05.0 LEAD STYLE)
(NOT AVAILABLE WITH -L OPTION)
-EGPS: EXTENDED GUIDE POST SHIELD
(AVAILABLE ON -05.0 & -09.0 LEAD STYLES)
(-010, -020, -025, & -030 POS ONLY)
(NOT AVAILABLE WITH -L OPTION)
(SEE NOTE 10)
-DSP: -DS OPTION WITH -EGP: (-13 & -25 POS ONLY)
-DSS: -DS OPTION WITH -EGPS: (10 & 25 POS ONLY)

OPTION	"N"
NONE	3.40 [0.134]
-L, -EGP	4.90 [0.193]

No. OF POS.	
-005, -010, -011, -013, -020, -025, -030, -035	0.10 [0.004]
-040, -049, -050, -060	0.12 [0.005]
-070, -075, -100	0.15 [0.006]

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MAXIMUM BURR ALLOWANCE: 0.038[0.015]
3. MINIMUM PUSHOUT FORCE: TERMINAL 2.22 N [.5 LB.], WELD TAB 4.45 N [1 LB.]
4. NOTE DELETED
5. "F" DIMENSION DOES NOT APPLY TO -EGP & -EGPS OPTION, SEE FIG. 5 & 6.
6. NOTE DELETED.
7. -TR/-FR PACKAGING NOT AVAILABLE ON THE 100 POSITION;
TRAY PACKAGING ONLY AVAILABLE ON -100 POSITION.
8. NOT AVAILABLE WITH -L, -EGP & -EGPS OPTIONS.
9. LEAD STYLE -02.0 & -03.0 WITH -K-TR OPTIONS AVAILABLE TO EXISTING CUSTOMERS ONLY.
10. FOR EGPS-K-TR COMBINATIONS LEAVE THE ZERO OFF THE FRONT OF THE LEAD STYLE CALLOUT.
11. C31 FOR ERM8-010-09.0-X-DV-EGPS ONLY.
12. -03.0 LEAD STYLE ONLY AVAILABLE FOR STANDARD, -L & -S OPTIONS.
13. TAPE & REEL IS STANDARD PACKAGING.
14. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
15. ATTACH LABEL -4X2 TO EACH REEL.

STACK HEIGHT			
ERM8 LEAD STYLE	ERF8 LEAD STYLE		
	-05.0	-07.0	-10.0
-02.0	7.0MM	9.0MM	12.0MM
-03.0	8.0MM	10.0MM	13.0MM
-05.0	10.0MM	12.0MM	15.0MM
-08.0	13.0MM	15.0MM	18.0MM
-09.0	14.0MM	16.0MM	19.0MM

HEIGHT	"E"	"F"	"G"	"U"	"AB"
-02.0	1.605 [0.0632]	5.965 [0.2348]	5.04 [0.198]	6.765 [0.266]	6.16 [0.242]
-03.0	2.605 [0.1026]	6.965 [0.2742]	5.99 [0.236]	7.765 [0.306]	7.16 [0.282]
-05.0	4.605 [0.1813]	8.905 [0.3506]	7.98 [0.314]	9.765 [0.384]	9.16 [0.360]
-08.0	7.605 [0.2994]	11.905 [0.4687]	10.98 [0.432]	12.765 [0.503]	N/A
-09.0	8.605 [0.3388]	12.905 [0.5081]	11.98 [0.472]	13.765 [0.542]	N/A

POSITION	"A"	"B"	"C"	"D"	"H"
-005	10.00 [0.394]	8.20 [0.323]	3.20 [0.126]	6.80 [0.268]	3.00 [0.118]
-010	14.00 [0.551]	12.20 [0.480]	7.20 [0.283]	10.80 [0.425]	5.00 [0.197]
-011	14.80 [0.583]	13.00 [0.512]	8.00 [0.315]	11.60 [0.457]	5.40 [0.213]
-013	16.40 [0.646]	14.60 [0.575]	9.60 [0.378]	13.20 [0.520]	6.20 [0.244]
-020	22.00 [0.866]	20.20 [0.795]	15.20 [0.598]	18.80 [0.740]	9.00 [0.354]
-025	26.00 [1.024]	24.20 [0.953]	19.20 [0.756]	22.80 [0.898]	11.00 [0.433]
-030	30.00 [1.181]	28.20 [1.110]	23.20 [0.913]	26.80 [1.055]	13.00 [0.512]
-035	34.00 [1.339]	32.20 [1.268]	27.20 [1.071]	30.80 [1.213]	15.00 [0.591]
-040	38.00 [1.496]	36.20 [1.425]	31.20 [1.228]	34.80 [1.370]	17.00 [0.669]
-049	45.20 [1.780]	43.40 [1.709]	38.40 [1.512]	42.00 [1.654]	20.80 [0.811]
-050	46.00 [1.811]	44.20 [1.740]	39.20 [1.543]	42.80 [1.685]	21.00 [0.827]
-060	54.00 [2.126]	52.20 [2.055]	47.20 [1.858]	50.80 [2.000]	25.00 [0.984]
-070	62.00 [2.441]	60.20 [2.370]	55.20 [2.173]	58.80 [2.315]	29.00 [1.142]
-075	66.00 [2.598]	64.20 [2.528]	59.20 [2.331]	62.80 [2.472]	31.00 [1.220]
-100	86.00 [3.386]	84.20 [3.315]	79.20 [3.118]	82.80 [3.260]	41.00 [1.614]

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN
MILLIMETERS [INCHES].
TOLERANCES ARE:
DECIMALS ANGLES
X.X: ±0.3 [0.1] 2°
X.XX: ±0.13 [0.005]
X.XXX: ±0.050 [0.002]

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e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1
INSULATOR: LCP, COLOR: BLACK
TERMINAL: PHOS BRONZE
LATCH: BeCu
SHIELD: PHOS BRONZE

DESCRIPTION:
0.8MM EDGE RATE TERMINAL ASSEMBLY
DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

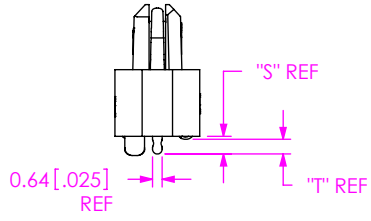
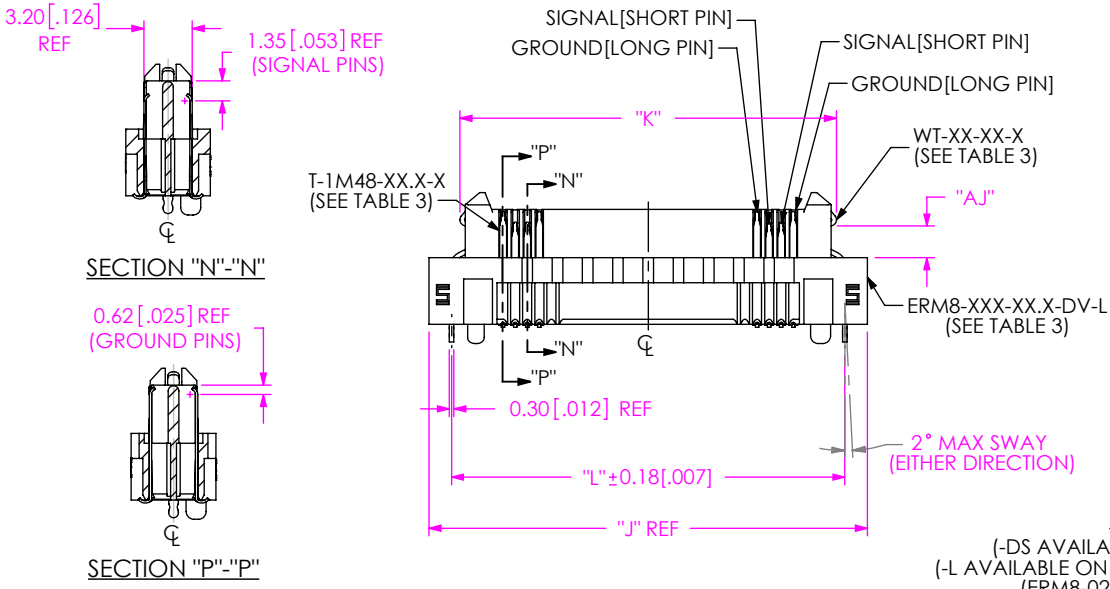
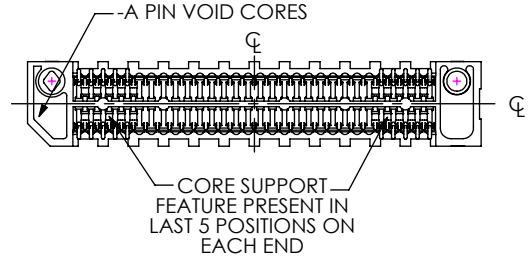
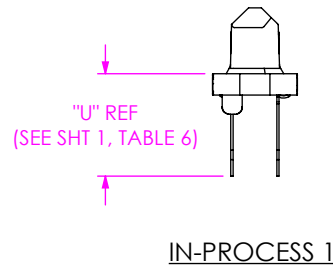
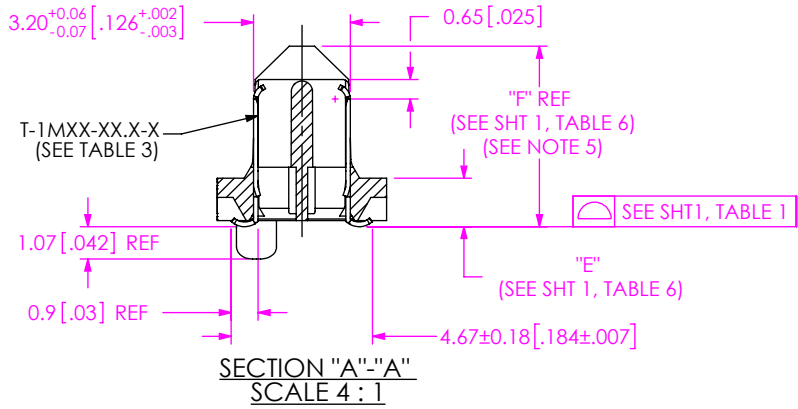


FIG 3
-DS WITH -L OPTION
(-DS AVAILABLE ON -.05.0 LEAD STYLE ONLY)
(-L AVAILABLE ON -.03.0, -.05.0 & -.09.0 LEAD STYLE ONLY)
(ERM8-025-05.0-XXX-DV-DS-L SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

TABLE 4	
-DS & -L OPTION AVAILABILITY	
(-DS AVAILABLE ON -.05.0 LEAD STYLE ONLY)	
(-L AVAILABLE ON -.03.0, -.05.0 & -.09.0 LEAD STYLE ONLY)	
POSITION	
-005	-L
-010	-DS, -L
-011	-L
-013	-DS, -L
-020	-L
-025	-DS, -L
-030	-L
-035	-L
-040	-L
-049	-DS, -L
-050	-L
-060	-L
-070	-L
-075	-L

TABLE 7				
POSITION	"J"	"K"	"L"	"M"
-005	13.00 [0.512]	8.90 [0.350]	10.00 [0.394]	4.50 [0.177]
-010	17.00 [0.669]	12.90 [0.508]	14.00 [0.551]	6.50 [0.256]
-011	17.80 [0.701]	13.70 [0.539]	14.80 [0.583]	6.90 [0.272]
-013	19.40 [0.764]	15.30 [0.602]	16.40 [0.648]	7.70 [0.303]
-020	25.00 [0.984]	20.90 [0.823]	22.00 [0.866]	10.50 [0.413]
-025	29.00 [1.142]	24.90 [0.980]	26.00 [1.024]	12.50 [0.492]
-030	33.00 [1.299]	28.90 [1.138]	30.00 [1.181]	14.50 [0.571]
-035	37.00 [1.457]	32.90 [1.295]	34.00 [1.339]	16.50 [0.650]
-040	41.00 [1.614]	36.90 [1.453]	38.00 [1.496]	18.50 [0.728]
-049	48.20 [1.898]	44.10 [1.736]	45.20 [1.780]	22.10 [0.870]
-050	49.00 [1.929]	44.90 [1.768]	46.00 [1.811]	22.50 [0.886]
-060	57.00 [2.244]	52.90 [2.083]	54.00 [2.128]	26.50 [1.043]
-070	65.00 [2.559]	60.90 [2.398]	62.00 [2.441]	30.50 [1.201]
-075	69.00 [2.717]	64.90 [2.555]	66.00 [2.598]	32.50 [1.280]

TABLE 3							
OPTION	STYLE	ERM8-XXX-XX.X-DV-01	T-1MXX-XX.X-X	WT-XX-XX-X	"S"	"T"	"A"
NONE	-02.0	ERM8-XXX-02.0-DV-01	T-1M37-02.0-X				
	-03.0	ERM8-XXX-03.0-DV-01	T-1M37-03.0-X				
	-05.0	ERM8-XXX-05.0-DV-01	T-1M37-05.0-X				
	-08.0	ERM8-XXX-08.0-DV-01	T-1M37-08.0-X				
	-09.0	ERM8-XXX-09.0-DV-01	T-1M37-09.0-X				
-DS		ERM8-XXX-05.0-DV-XX	T-1M48-05.0-X				
-EGP	-05.0	ERM8-XXX-05.0-DV-EGP	T-1M37-05.0-X	WT-29-06-T	1.17 [.046]	0.97 [.038]	
-EGPS		ERM8-XXX-05.0-DV-EGPS	T-1M37-05.0-X	SH29-XX-02	1.17 [.046]	0.97 [.038]	N/A
-EGPS	-09.0	ERM8-XXX-09.0-DV-EGPS	T-1M37-09.0-X	SH29-XX-06	1.17 [.046]	0.97 [.038]	
-L	-03.0	ERM8-XXX-03.0-DV-L	T-1M37-03.0-X	WT-121-01-F	1.60 [.063]	1.40 [.055]	2.20 [.087]
	-05.0	ERM8-XXX-05.0-DV-L	T-1M37-05.0-X	WT-29-03-F	1.17 [.046]	0.97 [.038]	2.10 [.082]
	-09.0	ERM8-XXX-09.0-DV-L	T-1M37-09.0-X	WT-29-10-F	1.60 [.063]	1.40 [.055]	2.10 [.082]
-S	-02.0	ERM8-XXX-02.0-DV-S	T-1M37-02.0-X	SH29-XX-08	1.61 [.063]	1.41 [.056]	
	-03.0	ERM8-XXX-03.0-DV-S	T-1M37-03.0-X	SH122-XX-01	1.61 [.063]	1.41 [.056]	
	-05.0	ERM8-XXX-05.0-DV-S	T-1M37-05.0-X	SH29-XX-02	1.17 [.046]	0.97 [.038]	
	-09.0	ERM8-XXX-09.0-DV-S	T-1M37-09.0-X	SH29-XX-06	1.17 [.046]	0.97 [.038]	N/A

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DESCRIPTION:
0.8MM EDGE RATE TERMINAL ASSEMBLY
DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX
BY: KNOWLDEN 9/27/2005 SHEET 2 OF 7

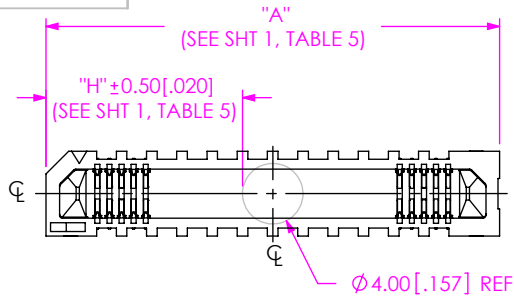


FIG 2
-K OPTION
(ERM8-030-XX.X-XXX-DV-K SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

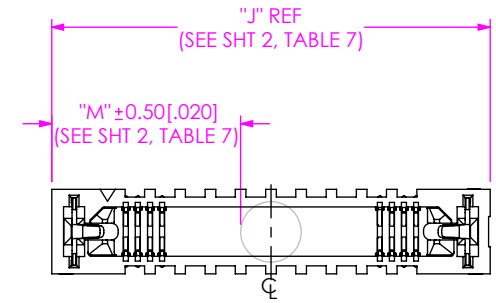
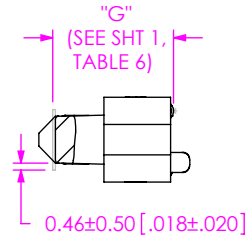
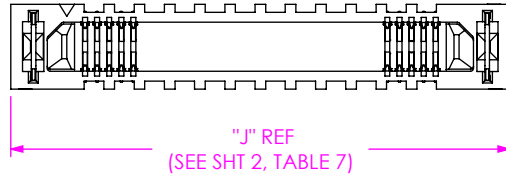


FIG 4
-K WITH -L OPTION
(ERM8-025-05.0-XXX-DV-L-K SHOWN)
(SAME AS FIG 2, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)



ERM8-XXX-05.0-DV-EGP
(SEE SHT 2, TABLE 3)

WT-XX-XX-X
(SEE SHT 2, TABLE 3)

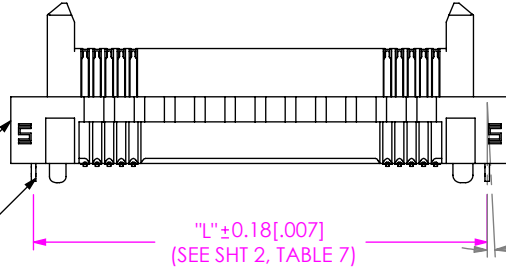
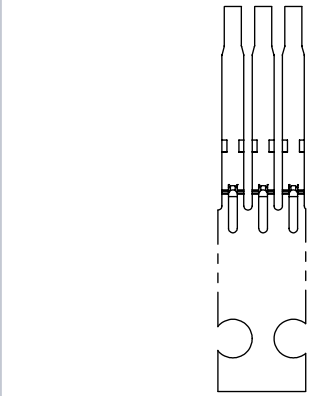
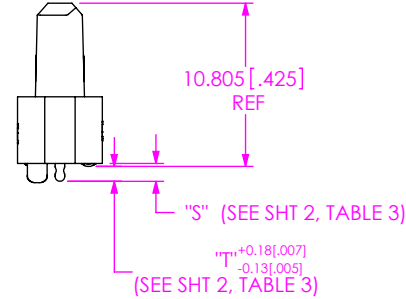


FIG 5
-EGP OPTION
(AVAILABLE ON -05.0 LEAD STYLE ONLY)
(ERM8-030-05.0-XXX-DV-EGP SHOWN)
(SAME AS FIG 3, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)



T-1M37-XX.X-X
IN-PROCESS VIEW

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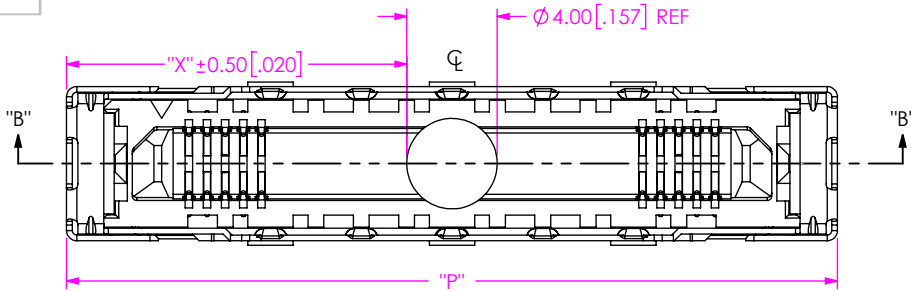


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DESCRIPTION:
0.8MM EDGE RATE TERMINAL ASSEMBLY

DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

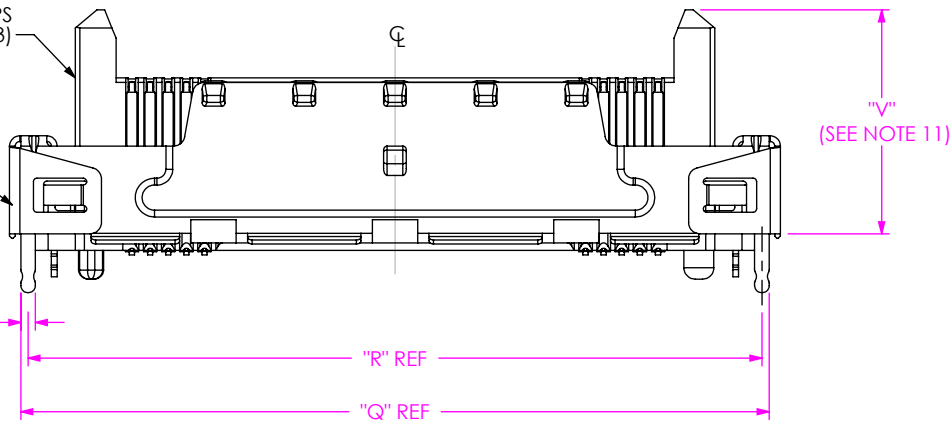
BY: KNOWLDEN 9/27/2005 SHEET 3 OF 7



ERM8-XXX-05.0-DV-EGPS
(SEE SHT 2, TABLE 3)

SH29-XX-02-X

0.64 [0.025]
REF (TYP)

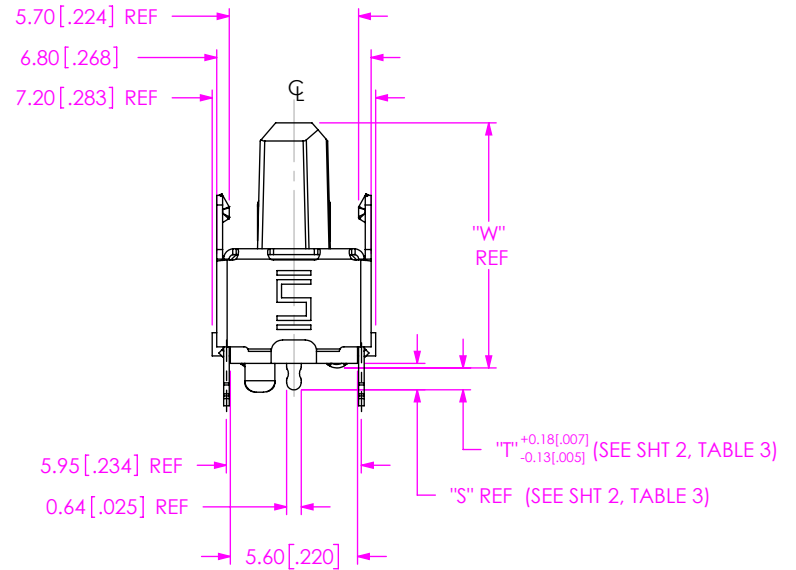


0.25 [0.010]
(TYP) REF

"L" ± 0.18 [0.007]
(SEE SHT 2, TABLE 7)

2° MAX SWAY
(EITHER DIRECTION)

No. OF POS.	"P"	"Q"	"R"	"X"
-10	18.0 [0.71]	17.00 [0.669]	16.36 [0.644]	7.00 [0.276]
-20	26.0 [1.02]	25.00 [0.984]	24.36 [0.959]	11.00 [0.433]
-25	30.0 [1.18]	29.00 [1.142]	28.36 [1.117]	13.00 [0.512]
-30	34.0 [1.34]	33.00 [1.299]	32.36 [1.274]	15.00 [0.591]



LEAD STYLE	"V"	"W"
-05.0	9.87 [0.389]	10.805 [0.4254]
-09.0	13.87 [0.546]	14.805 [0.5829]

FIG 6
-EGPS OPTIONS
(AVAILABLE ON -05.0 & -09.0 LEAD STYLE,
-010, -020, -025 & -030 POS)
(ERM8-030-05.0-XXX-DV-EGPS SHOWN)
(SAME AS FIG 5, EXCEPT AS SHOWN)

SECTION "B"- "B"

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SHEET SCALE: 3:1



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DESCRIPTION:
0.8MM EDGE RATE TERMINAL ASSEMBLY

DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

BY: KNOWLDEN 9/27/2005 SHEET 4 OF 7

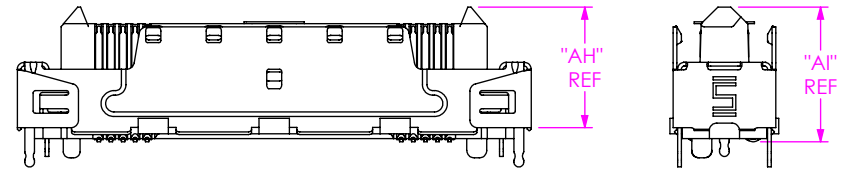
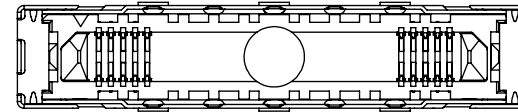
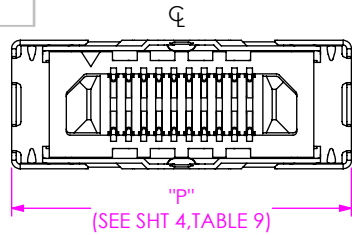


FIG 14
ERM8-030-05.0-XXX-DV-S SHOWN
(AVAILABLE ON -05.0 & -09.0 LEAD STYLE,
-010, -020, -025 & -030 POS)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)

LEAD STYLE	"AH"	"AI"
-05.0	7.97 [.314]	8.905 [.3506]
-09.0	11.97 [.471]	12.905 [.5081]

ERM8-010-09.0-DV-EGPS
(SEE SHT 2, TABLE 3)

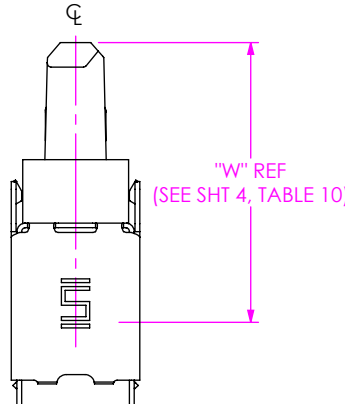
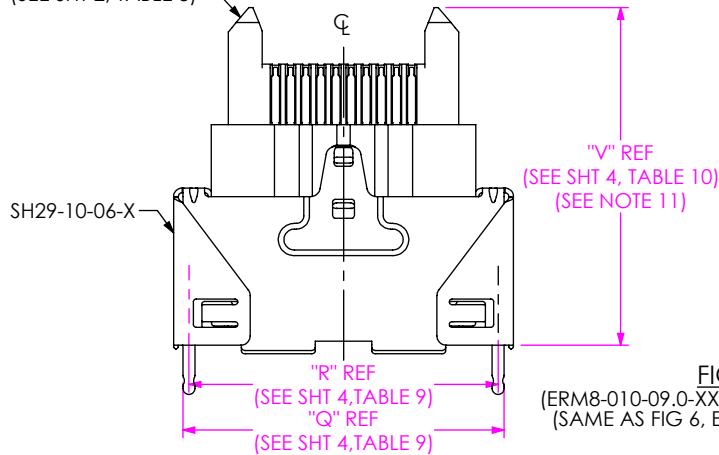
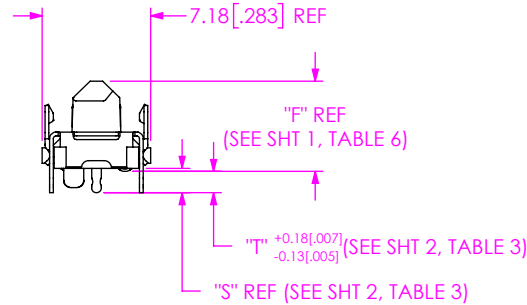
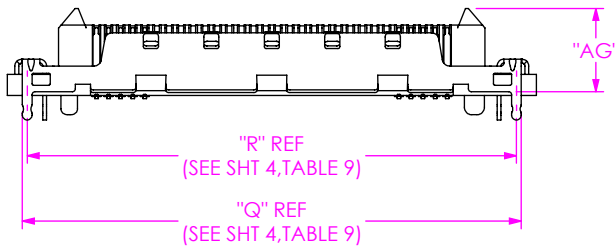
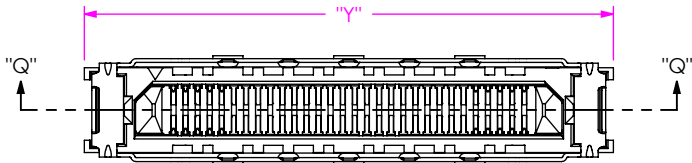
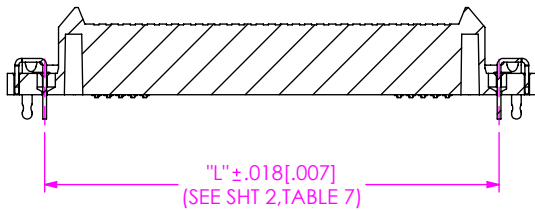


FIG 7
(ERM8-010-09.0-XXX-DV-EGPS SHOWN)
(SAME AS FIG 6, EXCEPT AS SHOWN)

No. OF POS.	"Y"
-10	19.0 [0.75]
-20	27.0 [1.06]
-25	31.0 [1.22]
-30	35.0 [1.38]



LEAD STYLE	"AG"
-02.0	5.51 [0.217]
-03.0	6.61 [0.260]



SECTION "Q"-"Q"

FIG 8
(ERM8-030-02.0-XXX-DV-S SHOWN)
(AVAILABLE ON -02.0 & -03.0 LEAD STYLE,
-010, -020, -025 & -030 POS)
(SAME AS FIG 6, EXCEPT AS SHOWN)

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
0.8MM EDGE RATE TERMINAL ASSEMBLY

DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

BY: KNOWLDEN 9/27/2005 SHEET 5 OF 7

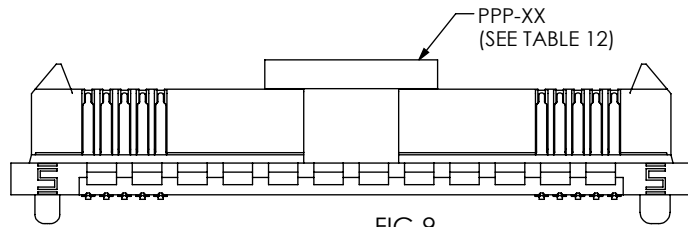
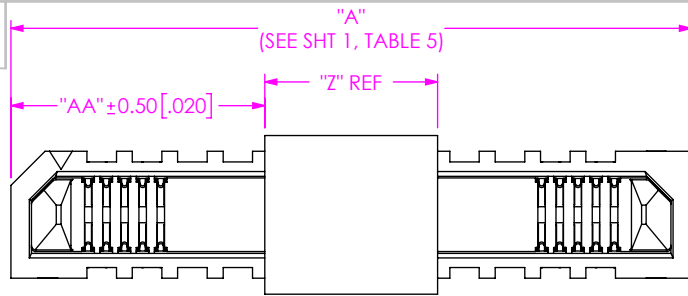


FIG 9
-P OPTION
(ERM8-030-XX.X-XXX-DV-P SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

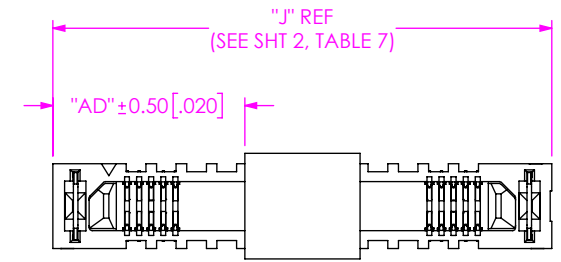
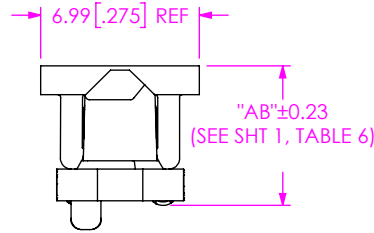


FIG 11
-P WITH -EGP OPTION
(ERM8-030-05.0-XXX-DV-EGP-P SHOWN)
(SAME AS FIG 9, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

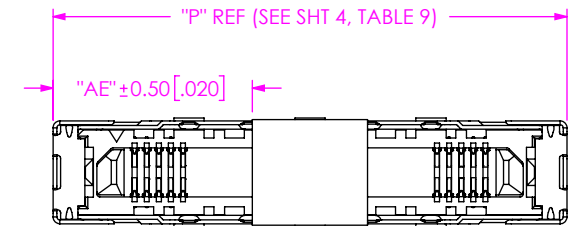


FIG 12
-P WITH -EGPS OPTION
(ERM8-030-05.0-XXX-DV-EGPS-P SHOWN)
(SAME AS FIG 9, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(ALSO APPLY TO -S OPTION ON -05.0 & -09.0 LEAD STYLES)

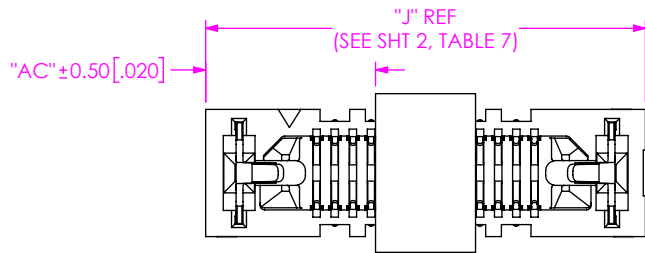


FIG 10
-P WITH -L OPTION
(ERM8-013-XX.X-XXX-DV-L-P SHOWN)
(SAME AS FIG 9, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

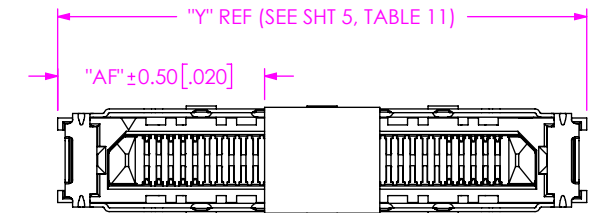


FIG 13
-P WITH -S OPTION
(ERM8-030-02.0-XXX-DV-S-P SHOWN)
(AVAILABLE ON -02.0 & -03.0 LEAD STYLES)
(SAME AS FIG 9, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

TABLE 12

POSITION	PPP-XX	PAD WIDTH "Z"	NONE "AA"	-L "AC"	-EGP "AD"	-EGPS "AE"	-S	
							-05.0, -09.0 LEAD STYLE "AE"	-02.0, -03.0 LEAD STYLE "AF"
-005	PPP-88	4.40 [0.173]	2.80 [0.110]	4.30 [0.169]	4.30 [0.169]	N/A	N/A	N/A
-010		4.40 [0.173]	4.80 [0.189]	6.30 [0.248]	6.30 [0.248]	6.80 [0.268]	6.80 [0.268]	7.30 [0.287]
-011		4.40 [0.173]	5.20 [0.205]	6.70 [0.264]	6.70 [0.264]	N/A	N/A	N/A
-013		4.40 [0.173]	6.00 [0.236]	7.50 [0.295]	7.50 [0.295]	N/A	N/A	N/A
-020	PPP-87	7.62 [0.300]	7.19 [0.283]	8.69 [0.342]	8.69 [0.342]	9.19 [0.362]	9.19 [0.362]	9.69 [0.381]
-025		7.62 [0.300]	9.19 [0.362]	10.69 [0.421]	10.69 [0.421]	11.19 [0.441]	11.19 [0.441]	11.69 [0.460]
-030		7.62 [0.300]	11.19 [0.441]	12.69 [0.500]	12.69 [0.500]	13.19 [0.519]	13.19 [0.519]	13.69 [0.539]
-035		7.62 [0.300]	13.19 [0.519]	14.69 [0.578]	14.69 [0.578]	N/A	N/A	N/A
-040		7.62 [0.300]	15.19 [0.598]	16.69 [0.657]	16.69 [0.657]	N/A	N/A	N/A
-049		7.62 [0.300]	18.79 [0.740]	20.29 [0.799]	20.29 [0.799]	N/A	N/A	N/A
-050		7.62 [0.300]	19.19 [0.756]	20.69 [0.815]	20.69 [0.815]	N/A	N/A	N/A
-060		7.62 [0.300]	23.19 [0.913]	24.69 [0.972]	24.69 [0.972]	N/A	N/A	N/A
-070		7.62 [0.300]	27.19 [1.070]	28.69 [1.130]	28.69 [1.130]	N/A	N/A	N/A
-075		7.62 [0.300]	29.19 [1.149]	30.69 [1.208]	30.69 [1.208]	N/A	N/A	N/A
-100		7.62 [0.300]	N/A	N/A	N/A	N/A	N/A	N/A

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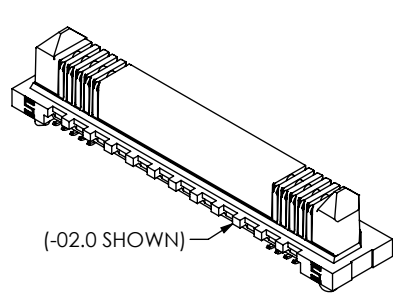
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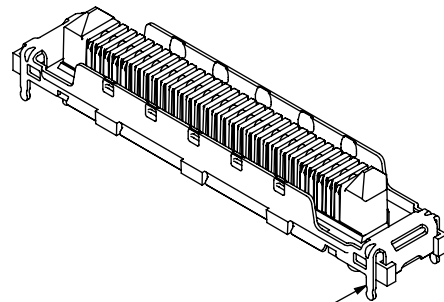
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DWG. NO.
ERM8-XXX-XX.X-XXX-DV-XXXX-X-XX

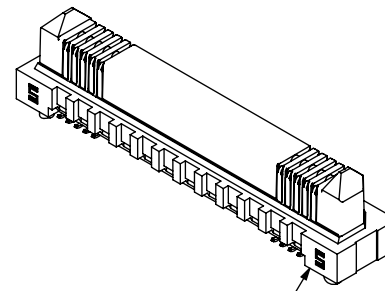
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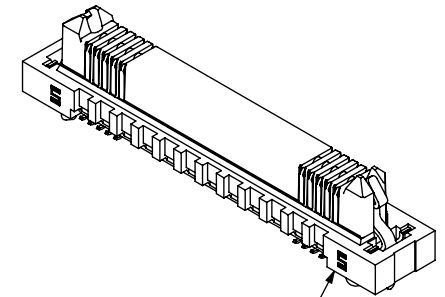
(-02.0 SHOWN)



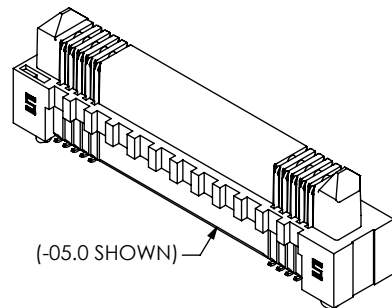
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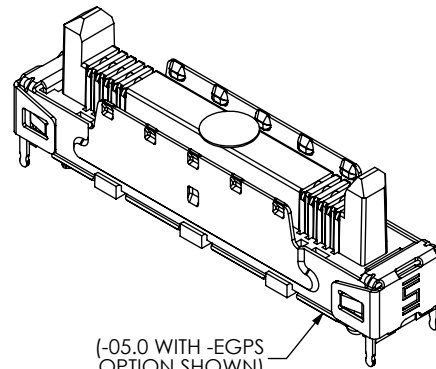
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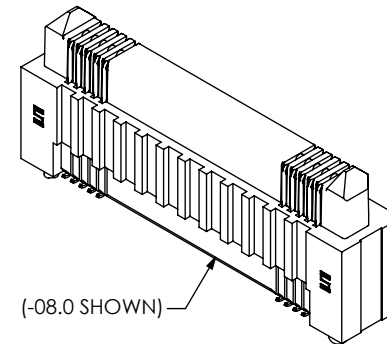
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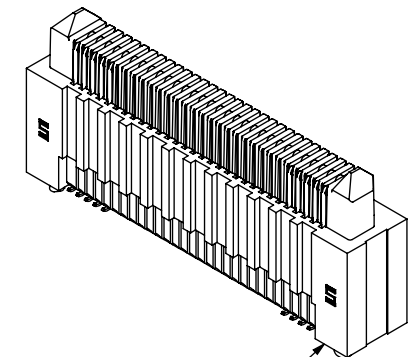
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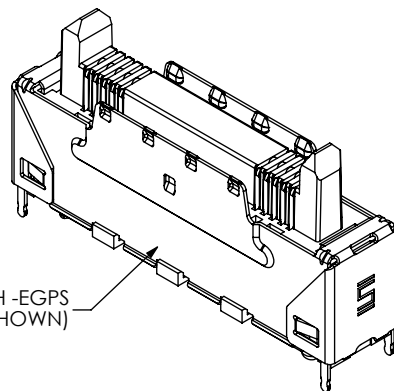
(-05.0 WITH -EGPS
OPTION SHOWN)



(-08.0 SHOWN)



(-09.0 SHOWN)



(-09.0 WITH -EGPS
OPTION SHOWN)

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