

DESIGNED AND DIMENSIONED  
IN MILLIMETERS [INCHES]

ERM5-XXX-XX.X-X-DV-XX-TR

DO NOT  
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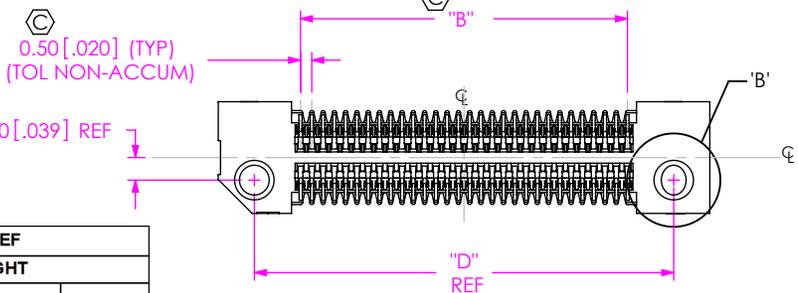
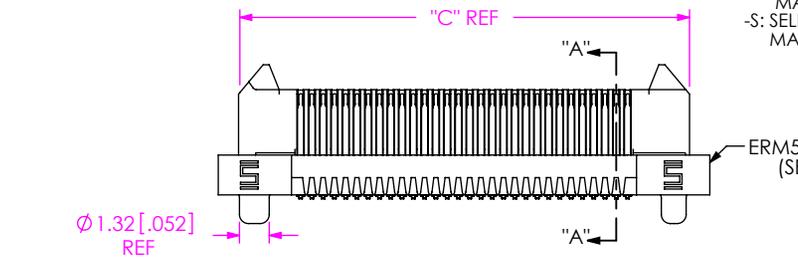
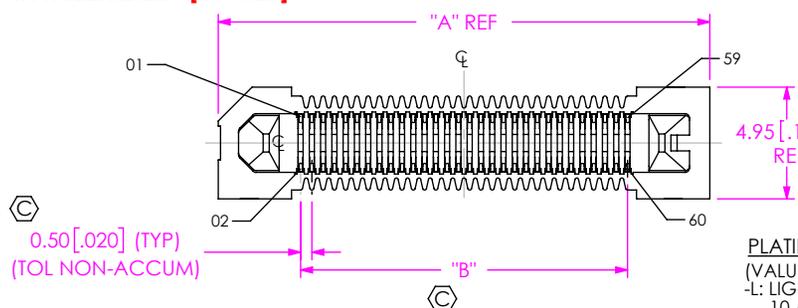


FIG 1  
ERM5-030-02.0-X-DV-XX SHOWN

No. OF POSITIONS  
(PER ROW)  
-005, -010, -020,  
-030, -040, -050,  
-060, -070, -075

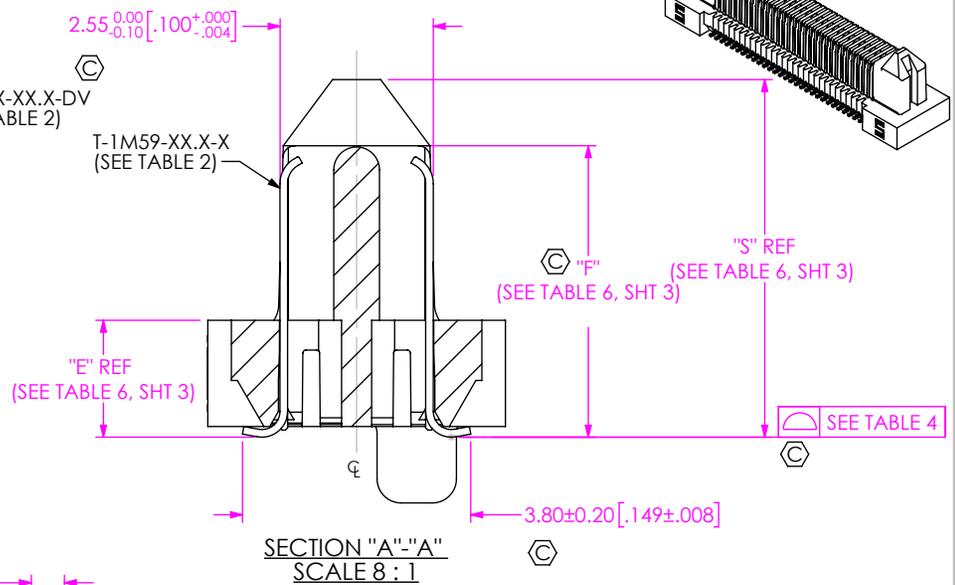
LEAD STYLE  
-02.0 = 2MM  
-04.0 = 4MM  
-05.0 = 5MM

PLATING SPECIFICATION  
(VALUES GIVEN ARE IN MICRO-INCHES)  
-L: LIGHT SELECTIVE,  
10 Au / 50 Ni MIN ON CONTACT,  
MATTE TIN TAIL  
-S: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT,  
MATTE TIN TAIL

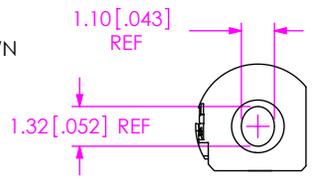
PACKAGING  
-TR: TAPE & REEL  
(SEE NOTES 5 & 6)

OPTIONS  
-K: POLYIMIDE FILM PAD (SEE NOTE 6)  
-FL: FRICTION LOCK (NOT AVAILABLE  
WITH -WT, ONLY AVAILABLE UP TO  
30 POSITIONS)  
(FOR MATING WITH ERF5-XXX-XX.X-X-DV-FL)  
-WT: WELD TAB (NOT AVAILABLE WITH -FL)  
(FOR MATING WITH ERF5-XXX-XX.X-X-DV-WT)  
-P: PICK AND PLACE PAD  
(PPP-08 ONLY AVAILABLE FOR -020 THRU -075 POSITIONS)  
(PPP-89 ONLY AVAILABLE FOR -005 AND -010 POSITIONS)

ROW SPECIFICATION  
-DV: DOUBLE VERTICAL



SECTION "A"-"A"  
SCALE 8 : 1



DETAIL 'B'  
SCALE 4 : 1

- NOTES:
- Ⓢ REPRESENTS A CRITICAL DIMENSION.
  - MAXIMUM BURR ALLOWANCE: 0.038[.0015]
  - MINIMUM PUSHOUT FORCE: 1.6 N [.36 LB.]  
MINIMUM WELD TAB PUSHOUT FORCE,  
-04.0 & -05.0 LEAD STYLES: 2.25 N [.51 LB.]  
-02.0 LEAD STYLE: 1.45 N [.33 LB.]
  - DELETED
  - FOR QUANTITIES UP TO 49 PIECES, NO LEADER,  
TRAILER, OR REEL WILL BE SUPPLIED. FOR QUANTITIES  
50-124, NO LEADER OR TRAILER WILL BE SUPPLIED.
  - LEAD STYLE -02.0 WITH -K-TR OPTIONS AVAILABLE TO EXISTING CUSTOMERS ONLY.

TABLE 1 REF STACK HEIGHT		
ERM5 LEAD STYLE	ERF5 LEAD STYLE	
-02.0	-05.0	-07.0
7.0MM	9MM	
-05.0	10.0MM	12MM
-04.0	9.0MM	11MM

TABLE 2		
LEAD STYLE	ERM5-XXX-XX.X-DV	T-1M59-XX.X-X
-02.0	ERM5-XXX-02.0-DV	T-1M59-02.0-X
-05.0	ERM5-XXX-05.0-DV	T-1M59-05.0-X
-04.0	ERM5-XXX-04.0-DV	T-1M59-04.0-X

TABLE 3				
POSITION	"A"	"B"	"C"	"D"
-005	9.30 [0.366]	2.00 [0.079]	7.50 [0.295]	6.10 [0.240]
-010	11.80 [0.465]	4.50 [0.177]	10.00 [0.394]	8.60 [0.339]
-020	16.80 [0.661]	9.50 [0.374]	15.00 [0.591]	13.60 [0.535]
-030	21.80 [0.858]	14.50 [0.571]	20.00 [0.787]	18.60 [0.732]
-040	26.80 [1.055]	19.50 [0.768]	25.00 [0.984]	23.60 [0.929]
-050	31.80 [1.252]	24.50 [0.965]	30.00 [1.181]	28.60 [1.126]
-060	36.80 [1.449]	29.50 [1.161]	35.00 [1.378]	33.60 [1.323]
-070	41.80 [1.646]	34.50 [1.358]	40.00 [1.575]	38.60 [1.520]
-075	44.30 [1.744]	37.00 [1.457]	42.50 [1.673]	41.10 [1.618]

TABLE 4	
No. OF POS.	Ⓢ
-010, -020, -030, -040	0.10 [0.004]
-050, -060, -070, 075	0.13 [0.005]

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN  
MILLIMETERS [INCHES].  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [0.1]  
X.XX: ±0.13 [0.005]  
X.XXX: ±0.050 [0.0020]

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e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1  
INSULATOR: LCP, COLOR: BLACK  
TERMINAL: BeCu OR PHOS BRONZE

DESCRIPTION:  
.5MM EDGE RATE TERMINAL ASSEMBLY  
DWG. NO.  
ERM5-XXX-XX.X-X-DV-XX-TR  
BY: DAVID W 4/30/2008 SHEET 1 OF 3

F:\DWG\MISC\MKTG\ERM5-XXX-XX.X-X-DV-XX-TR-MKT.SLDDRW

IN PROCESS 1  
CUT T-1M59-XX.X-X TERMINAL COMBS  
(ALL TAILS SAME DIRECTION)

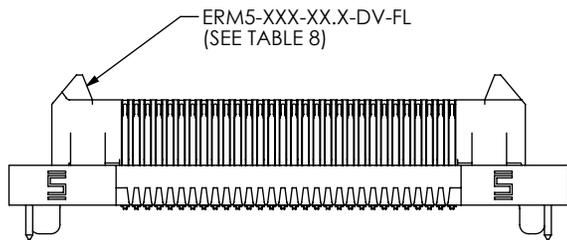
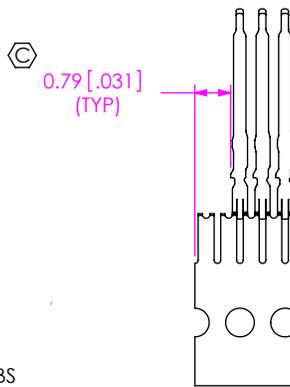


FIG 4  
(ERM5-030-02.0-X-DV-WT SHOWN)  
(SAME AS FIG 3)  
(NOT AVAILABLE WITH -FL)

LEAD STYLE	ERM5-XXX-XX.X-DV-XX	WT-36-XX-T
-02.0	ERM5-XXX-02.0-DV-FL	WT-36-05-T
-05.0	ERM5-XXX-05.0-DV-FL	WT-36-01-T
-04.0	ERM5-XXX-04.0-DV-FL	WT-36-06-T

POSITION	"J"	"K"	"L"	"Q"
-005	12.30 [0.484]	10.50 [0.413]	9.10 [0.358]	8.50 [0.335]
-010	14.80 [0.583]	13.00 [0.512]	11.60 [0.457]	11.50 [0.453]
-020	19.80 [0.780]	18.00 [0.709]	16.60 [0.654]	16.00 [0.630]
-030	24.80 [0.976]	23.00 [0.906]	21.60 [0.850]	21.00 [0.827]
-040	29.80 [1.173]	28.00 [1.102]	26.60 [1.047]	26.00 [1.024]
-050	34.80 [1.370]	33.00 [1.299]	31.60 [1.244]	31.00 [1.220]
-060	39.80 [1.567]	38.00 [1.496]	36.60 [1.441]	36.00 [1.417]
-070	44.80 [1.764]	43.00 [1.693]	41.60 [1.638]	41.00 [1.614]
-075	47.30 [1.862]	45.50 [1.791]	44.10 [1.736]	43.50 [1.713]

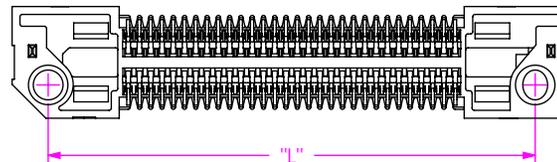
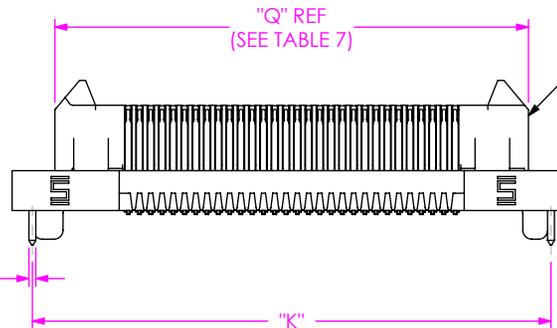
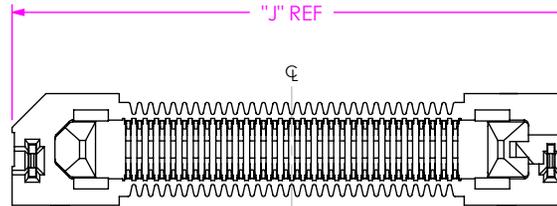
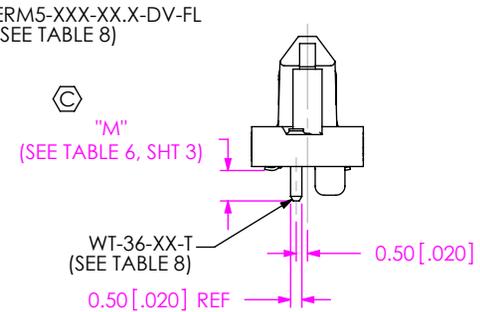


FIG 3  
(ERM5-030-02.0-X-DV-FL SHOWN)  
(SAME AS FIG 1 EXCEPT AS SHOWN)  
(NOT AVAILABLE WITH -WT, ONLY AVAILABLE UP TO 30 POSITIONS)



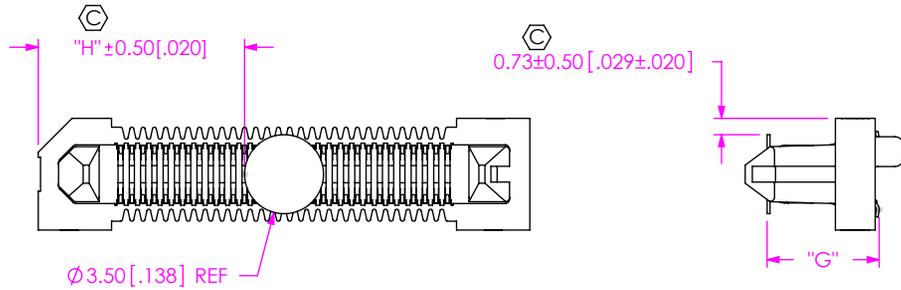
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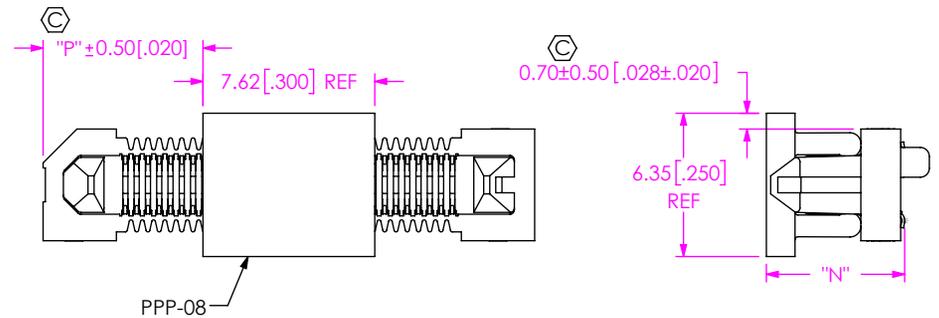


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.5MM EDGE RATE TERMINAL ASSEMBLY  
DWG. NO.  
ERM5-XXX-XX.X-X-DV-XX-TR  
BY: DAVID W 4/30/2008 SHEET 2 OF 3



**FIG 2**  
-K OPTION  
(USE K-DOT-138-250-005)  
(ERM5-030-02.0-X-DV-K SHOWN)



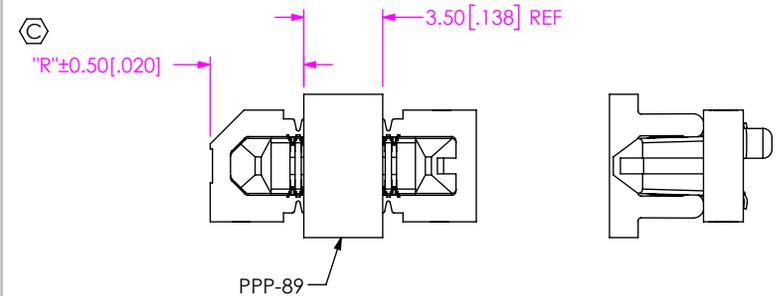
**FIG 5**  
-P OPTION  
(PPP-08 ONLY AVAILABLE FOR -020 THRU -075 POSITIONS)  
(ERM5-030-02.0-X-DV-P SHOWN)

**TABLE 5**

POSITION	"H"			"P"			"R"	
	-K	-WT-K	-FL-K	-P	-WT-P	-FL-P	-P	-WT-P
-005	2.90 [0.114]	4.40 [0.173]	4.40 [0.173]	-	-	-	2.90 [0.065]	4.40 [0.124]
-010	4.15 [0.163]	5.65 [0.222]	5.65 [0.222]	-	-	-	4.15 [0.163]	5.65 [0.222]
-020	6.65 [0.262]	8.15 [0.321]	8.15 [0.321]	4.59 [0.181]	6.09 [0.240]	6.09 [0.240]	-	-
-030	9.15 [0.360]	10.65 [0.419]	10.65 [0.419]	7.09 [0.279]	8.59 [0.338]	8.59 [0.338]	-	-
-040	11.65 [0.459]	13.15 [0.518]	-	9.59 [0.378]	11.09 [0.437]	-	-	-
-050	14.15 [0.557]	15.65 [0.616]	-	12.09 [0.476]	13.59 [0.535]	-	-	-
-060	16.65 [0.656]	18.15 [0.715]	-	14.59 [0.574]	16.09 [0.633]	-	-	-
-070	19.15 [0.754]	20.65 [0.813]	-	17.09 [0.673]	18.59 [0.732]	-	-	-
-075	20.40 [0.803]	21.90 [0.862]	-	18.34 [0.722]	19.84 [0.781]	-	-	-

**TABLE 6**

LEAD STYLE	"E"	"F"	"G"	"M"	"N"	"S"
-02.0	1.94 [0.076]	4.84 [0.191]	4.97 [0.196]	1.35 [0.053]	6.11 [0.241]	5.94 [0.234]
-05.0	4.94 [0.194]	7.84 [0.309]	7.97 [0.314]	1.40 [0.055]	9.11 [0.359]	8.94 [0.352]
-04.0	3.94 [0.155]	6.84 [0.269]	6.97 [0.274]	1.12 [0.044]	8.11 [0.319]	7.94 [0.313]



**FIG 6**  
-P OPTION  
(PPP-89 ONLY AVAILABLE FOR -005 AND -010 POSITIONS)  
(ERM5-010-02.0-X-DV-P SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5)

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BY: DAVID W 4/30/2008 SHEET 3 OF 3