

TABLE 5				
NO OF POS	"L"	"M"	"N"	"P"
-16	1.330[33.78]	1.050[26.67]	.575[14.61]	1.080[27.43]
-32	2.170[55.12]	1.890[48.01]	1.415[35.94]	1.920[48.77]
-48	3.010[76.45]	2.730[69.34]	2.255[57.28]	2.760[70.10]
-64	3.850[97.79]	3.570[90.68]	3.095[78.61]	3.600[91.44]

X QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

No OF POSITIONS
-016, -032, -048, -064
(PER ROW)

LEAD STYLE
-01: .062[1.57] BOARD
-02: .093[2.36] BOARD

PACKAGING
BLANK: TRAYS (SEE NOTE 4)
-TR: TAPE & REEL
(SEE NOTE 8 & 9)
(-016 & -032 WITH NO
OPTIONS)
(-016 & -032 WITH -PC4)
(-016 WITH -PC8)
-FR: FULL REEL QTY
TAPE & REEL
(SEE NOTE 8 & 9)
(-016 & -032 WITH NO
OPTIONS)
(-016 & -032 WITH -PC4)
(-016 WITH -PC8)

PICK & PLACE PAD
-K: KAPTON PAD
(USE K-850-650)

OPTION
-PC4: (NOT AVAILABLE WITH
-064 POSITION)(SEE FIG 2,
SHT 5)
-PC8: (NOT AVAILABLE WITH
-064 POSITION) (SEE FIG 3, SHT 5)

GUIDE POST
-MG: METAL GUIDE POST
(LEAVE BLANK FOR PLASTIC OR PCX.)
(PLASTIC AVAILABLE AS ASO ONLY)

-RA: RIGHT ANGLE

-DP: DIFFERENTIAL PAIRS

ROW SPECIFICATION
-D: DOUBLE (USE QMS-026-01-D-XX-RA)

PLATING SPECIFICATION
(SEE TABLE 6, SHEET 4)
-SL: 10µ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-S: 30µ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-L: 10µ" GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL
-H: 30µ" GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL

DO NOT
SCALE FROM
THIS PRINT

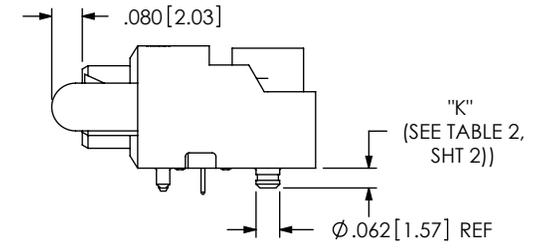
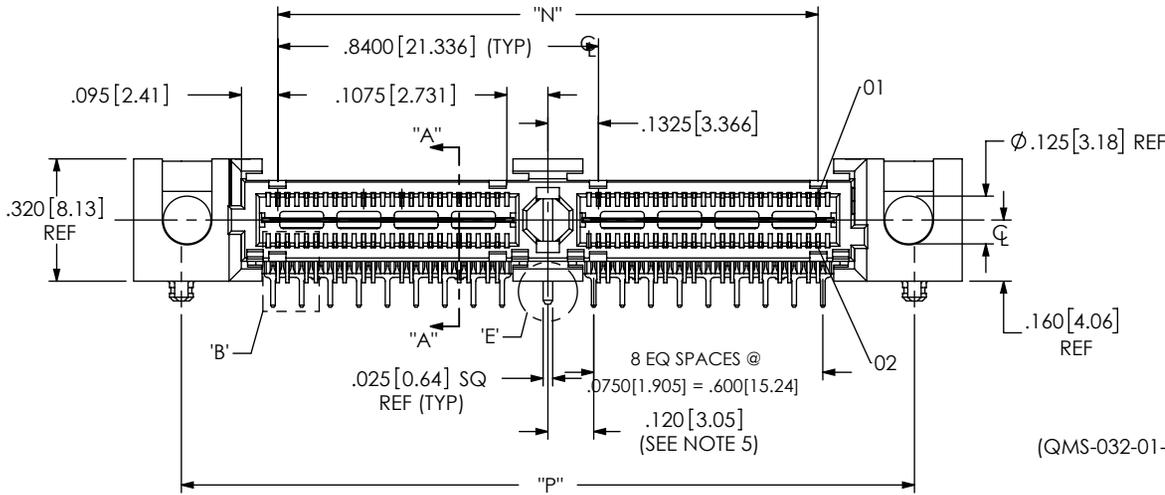
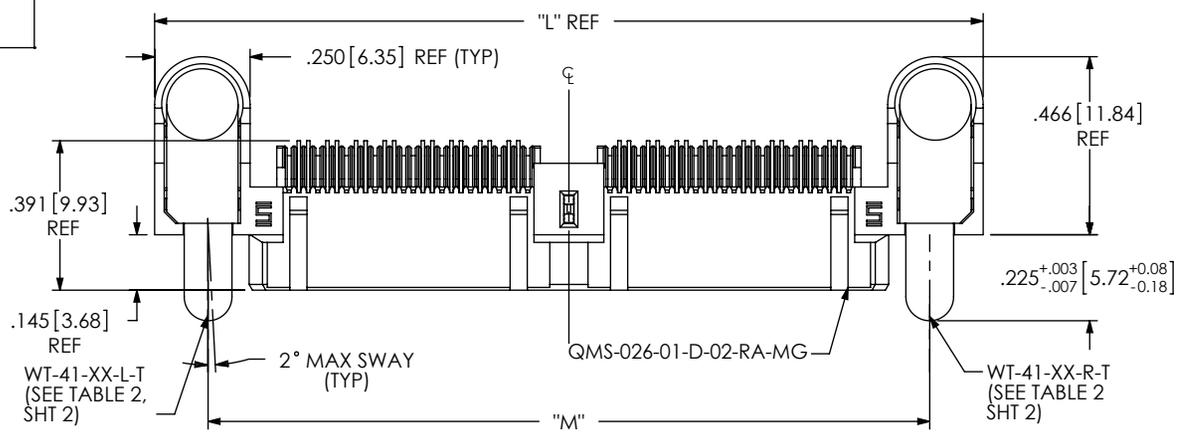
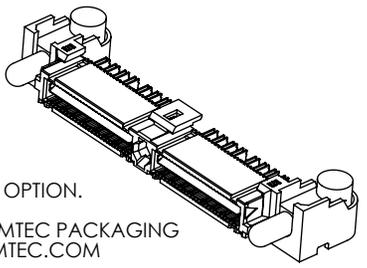


FIG 1
(QMS-032-01-XX-D-DP-RA-MG SHOWN)

- NOTES:
1. REPRESENTS A CRITICAL DIMENSION.
 2. MAXIMUM BURR ALLOWANCE: .0010 [0.02].
 3. MINIMUM PUSHOUT FORCE: SIGNAL: .5 LB. [2.22N] SHIELD/GROUND, POWER PIN, COUNTERWEIGHT AND METAL GUIDE POST: 1 LB. [4.45N]
 4. PARTS TO BE PACKAGED IN TRAYS AS STANDARD. DOES NOT APPLY TO 1 BANK.
 5. WT-28-XX-T NOT PRESENT ON SINGLE BANK WITH -MG OPTION.
 6. USE -Z- DATUM ZONE ONLY FOR MEASUREMENTS.
 7. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
 8. ATTACH LABEL TO EACH REEL



CPC FREQUENCY THIS SHEET		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		* PROPRIETARY NOTE	
A	C1, C29, C32	DECIMALS	ANGLES	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.	
B	C41, C42	.XX: ±.01 [.3]	2°		
C		.XXX: ±.005 [.13]			
D		.XXXX: ±.0020 [.051]			
		MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1			
		INSULATOR: LCP, COLOR BLACK			
		CONTACT, POWER PIN, & GROUND PLANE: PHOS BRONZE			
		COUNTERWEIGHT: BRASS			
		METAL GUIDE POST: ZINC			
F:\DWG\VMISC\VMKTG\QMS-XXX-XX-XX-D-DP-RA-XX-XXX-XX-MKT.SLD.DRW					

samtec

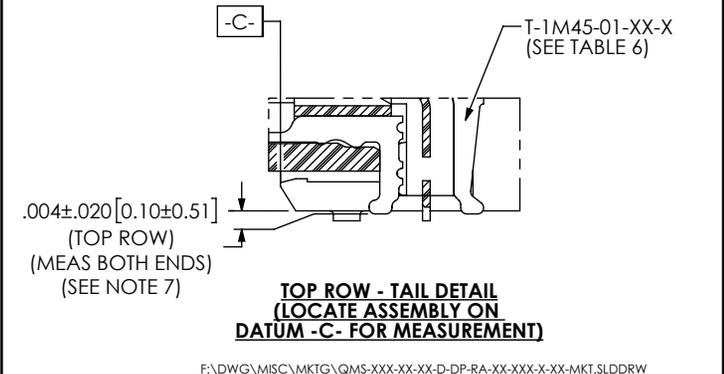
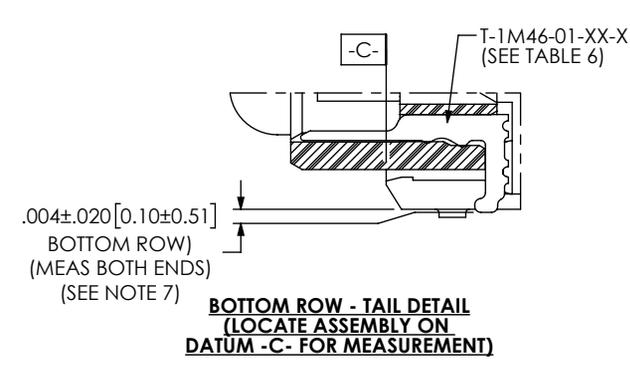
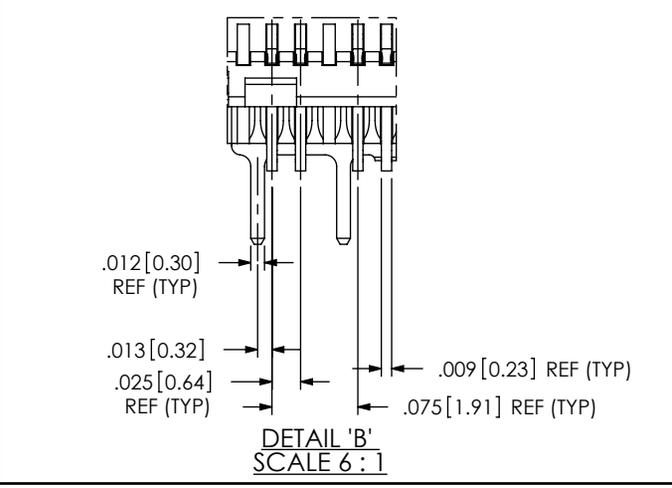
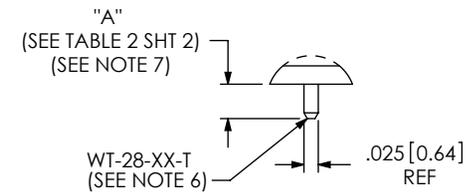
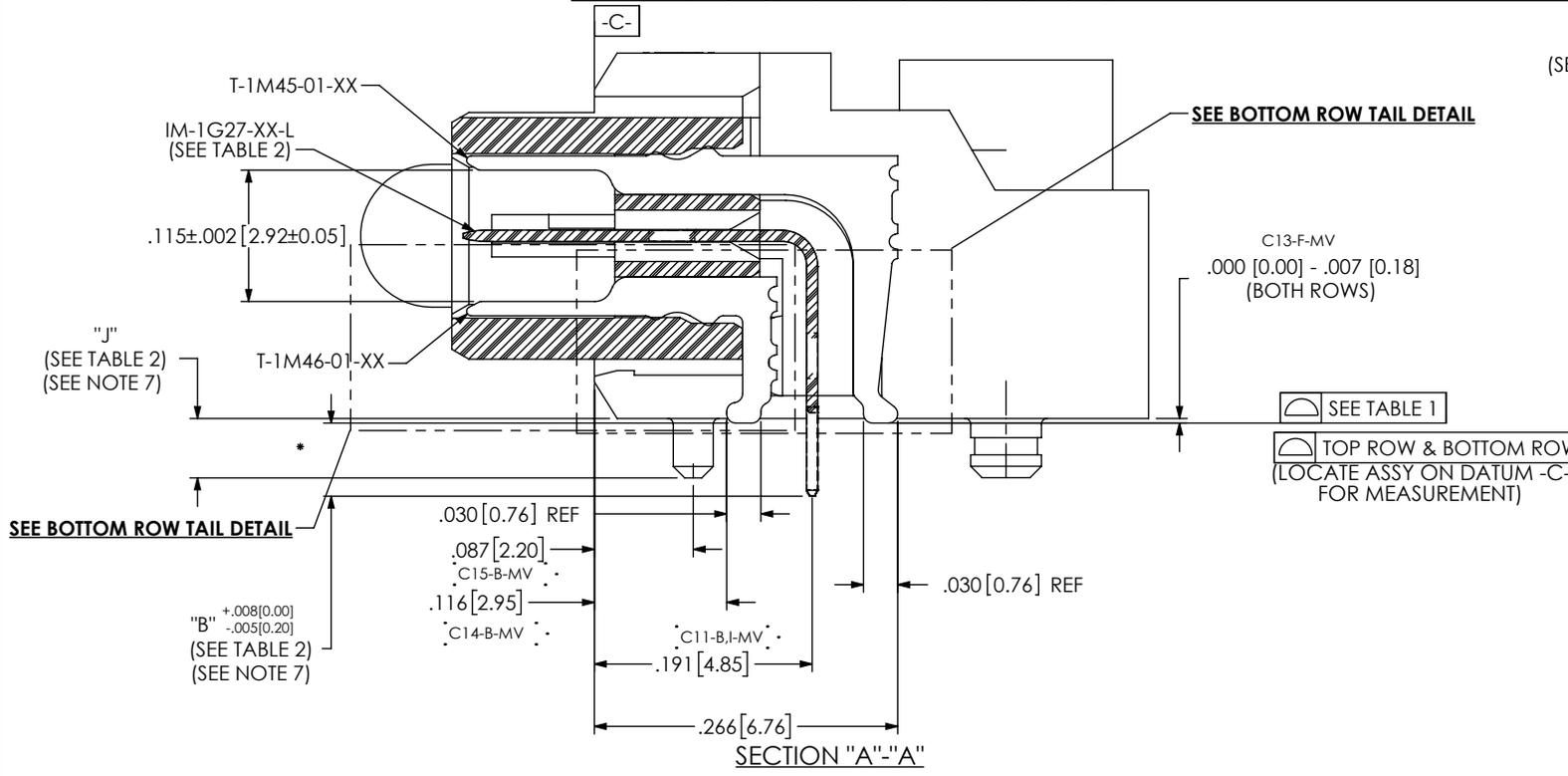
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.635mm RA DIFFERENTIAL PAIRS PLUG ASSEMBLY

DWG. NO.
QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

BY: BRATCHER 01/04/2007 SHEET 1 OF 6

TABLE 2									
LEAD STYLE	"A"	"B"	"C"	"J"	"K"	WT-28-XX-T	IM-1G27-XX-L	T-1R37-XX-T	WT-41-XX-XX
-01	.060[1.52]	.064[1.63]	.055[1.40]	.052[1.32]	.052[1.32]	WT-28-01-T	IM-1G27-01-L	T-1R37-01-T	WT-41-01-XX
-02	.091[2.31]	.095[2.41]	.086[2.18]	.083[2.11]	.083[2.11]	WT-28-02-T	IM-1G27-02-L	T-1R37-02-T	WT-41-02-XX



F:\DWG\MISC\MKTG\QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX-MKT.SLDDRW

No OF POSITIONS	COPLANARITY	STRAIGHTNESS ROW 1	STRAIGHTNESS ROW 2
-016 THRU -032	.004[.10]	.004[.10]	.004[.10]
-048 THRU -064	.006[.15]	.006[.15]	.006[.15]

CPC FREQUENCY THIS SHEET	
A	C7, C8, C9, C28
B	
C	
D	

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SHEET SCALE: 1:0.166667

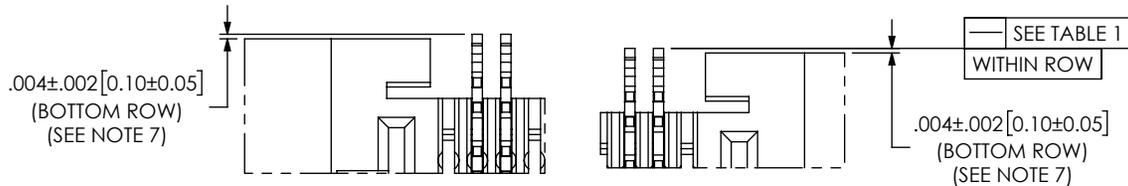
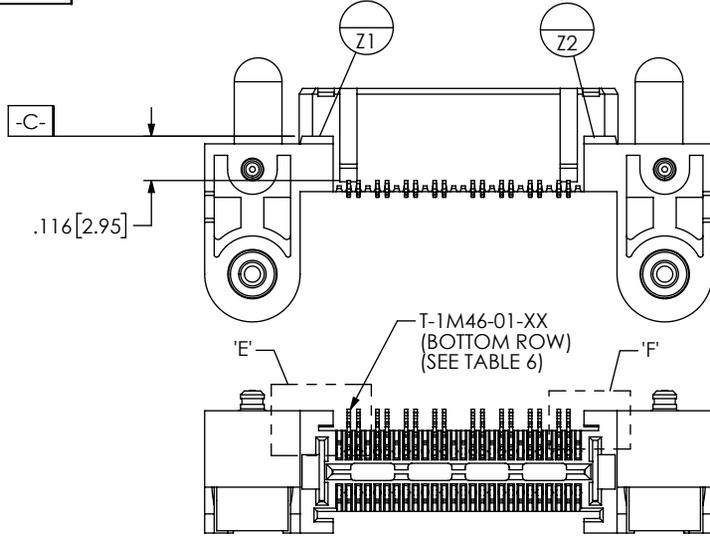
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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 53322

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.635mm RA DIFFERENTIAL PAIRS PLUG ASSEMBLY

DWG. NO.
QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

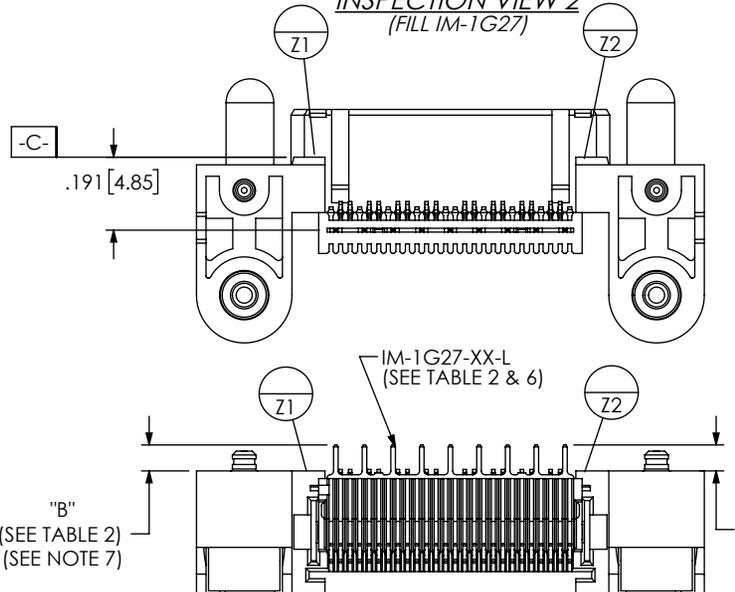
BY: BRATCHER 01/04/2007 SHEET 2 OF 6

INSPECTION VIEW 1
(FILL BOTTOM ROW)

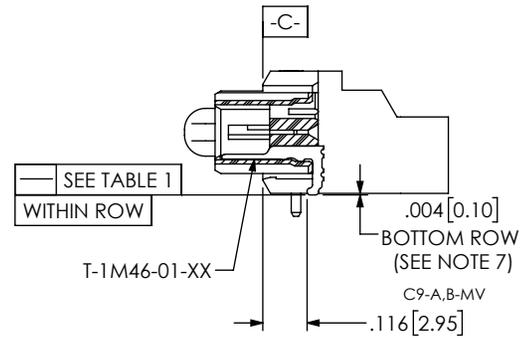


DETAIL 'E'
SCALE 6:1

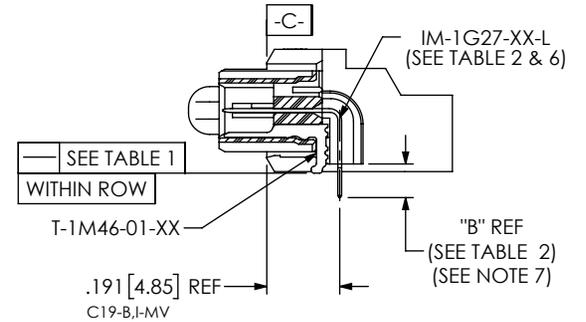
INSPECTION VIEW 2
(FILL IM-1G27)



DETAIL 'F'
SCALE 6:1



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



IN-PROCESS 2
(FILL IM-1G27)
(SEE INSPECTION VIEW 2 FOR ORIENTATION AND CPC'S)

CPC FREQUENCY THIS SHEET	
A	C9, C19
B	C9, C19, C21, C32, C34, C35, C36
C	
D	

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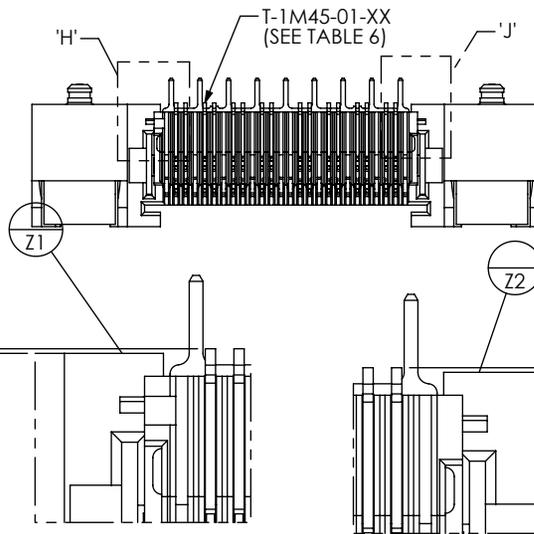
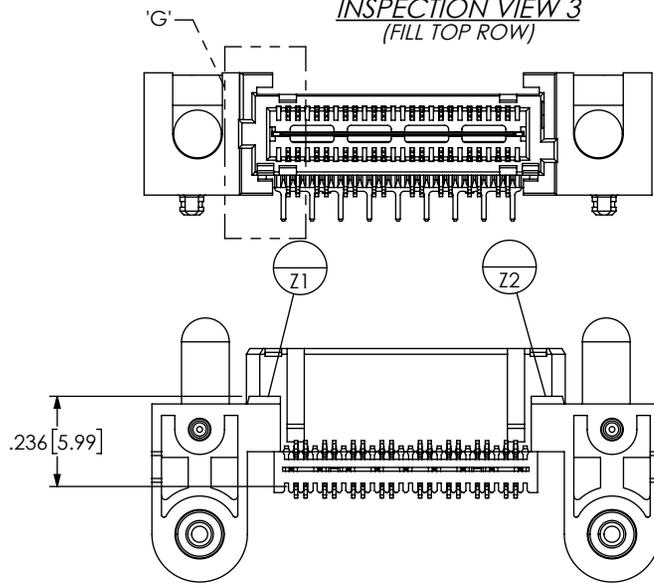
DO NOT SCALE DRAWING
SHEET SCALE: 2:1



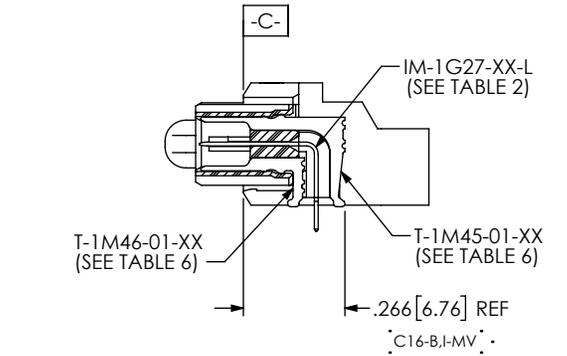
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.635mm RA DIFFERENTIAL PAIRS PLUG ASSEMBLY
DWG. NO.
QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX
BY: BRATCHER 01/04/2007 SHEET 3 OF 6

INSPECTION VIEW 3
(FILL TOP ROW)

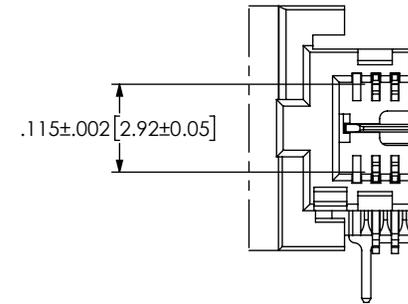


DETAIL 'H'
SCALE 6 : 1



IN-PROCESS 3
(FILL TOP ROW)

(SEE INSPECTION VIEW 3 FOR ORIENTATION AND CPC'S)



DETAIL 'G'
SCALE 4 : 1

F:\DWG\MISC\MKTG\QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX-MKT.SLDDRW

TABLE 6: PLATING SPECIFICATIONS			
	CONTACT	CONTACT	PCX CONTACTS
-SL	T-1M45-01-SL: 10µ" GOLD CONTACT, MATTE TIN TAIL	T-1M46-01-SL: 10µ" GOLD CONTACT, MATTE TIN TAIL	IM-1G27-XX-L: 10µ" GOLD CONTACT, MATTE TIN TAIL
-S	T-1M45-01-S: 30µ" GOLD CONTACT, MATTE TIN TAIL	T-1M46-01-S: 30µ" GOLD CONTACT, MATTE TIN TAIL	IM-1G27-XX-L: 10µ" GOLD CONTACT, MATTE TIN TAIL
-L	T-1M45-01-L: 10µ" GOLD CONTACT, 3µ" GOLD TAIL	T-1M46-01-L: 10µ" GOLD CONTACT, 3µ" GOLD TAIL	IM-1G27-XX-L: 10µ" GOLD CONTACT, MATTE TIN TAIL
-H	T-1M45-01-H: 30µ" GOLD CONTACT, 3µ" GOLD TAIL	T-1M46-01-H: 30µ" GOLD CONTACT, 3µ" GOLD TAIL	IM-1G27-XX-L: 10µ" GOLD CONTACT, MATTE TIN TAIL

CPC FREQUENCY THIS SHEET	
A	C16
B	C16, C38, C39, C40
C	
D	

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SHEET SCALE: 2:1



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e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.635mm RA DIFFERENTIAL PAIRS PLUG ASSEMBLY

DWG. NO.
QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

BY: BRATCHER 01/04/2007 SHEET 4 OF 6

FIG 2
(QMS-032-01-XX-D-DP-RA-PC4 SHOWN)
(SAME AS FIG 1, DIFFERENT AS SHOWN)

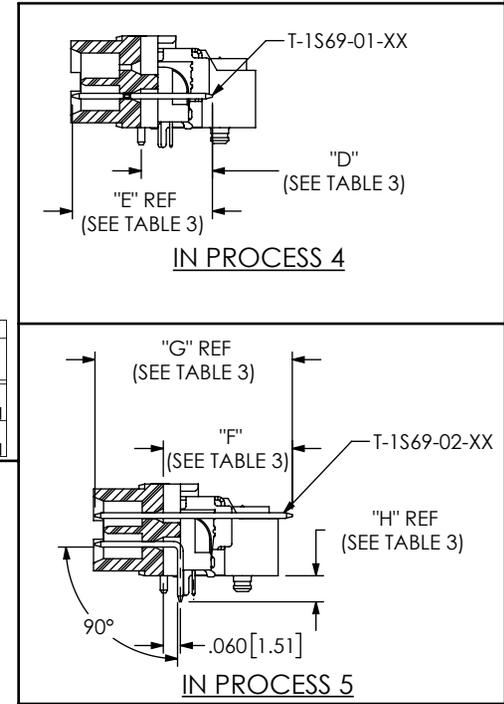
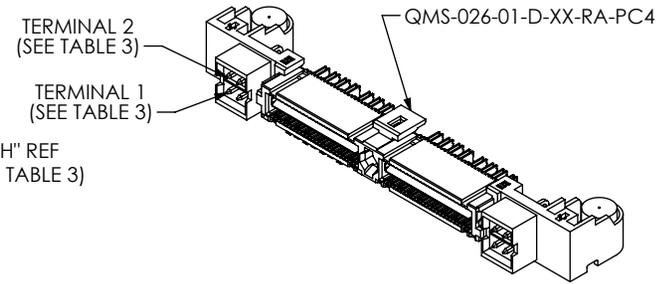
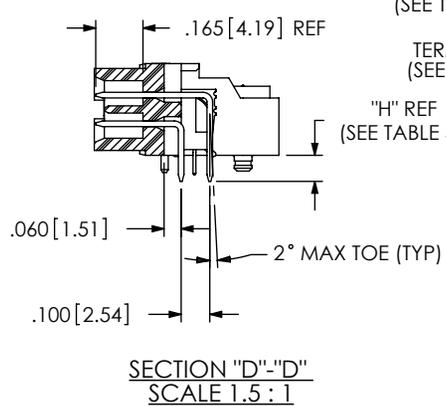
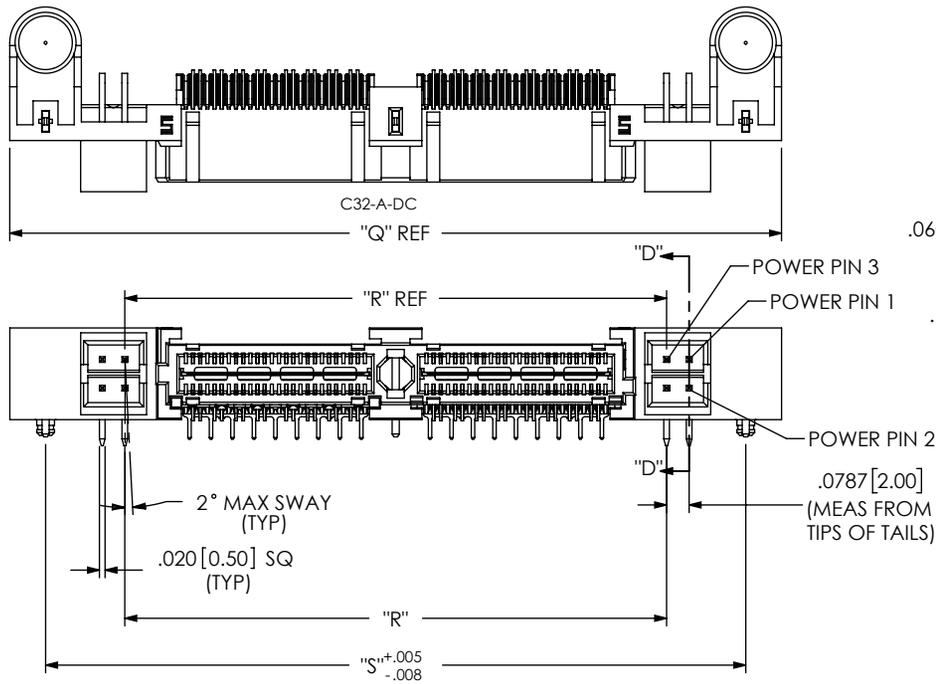


TABLE 3

LEAD STYLE	TERMINAL 1	TERMINAL 2	"D"	"E"	"F"	"G"	"H"
-01	T-1S69-01-XX	T-1S69-02-XX	.248 [6.30]	.489 [12.42]	.450 [11.43]	.689 [17.50]	.091 [2.31]
-02	T-1S69-03-XX	T-1S69-04-XX	.279 [7.09]	.520 [13.21]	.481 [12.22]	.720 [18.29]	.122 [3.10]

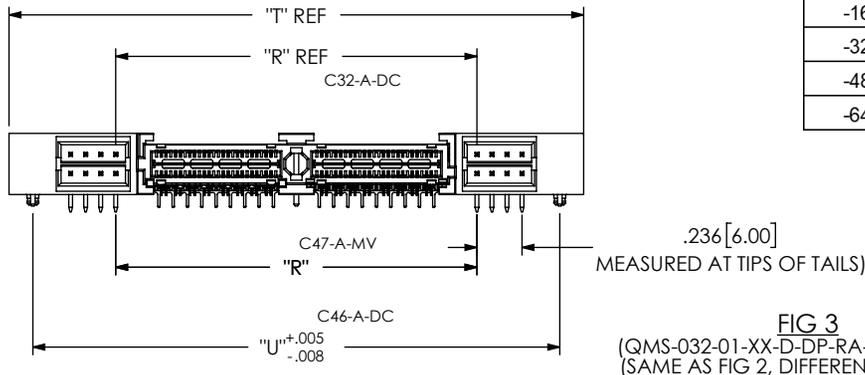
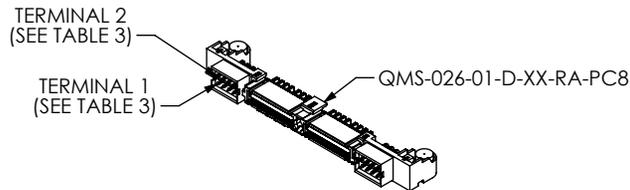
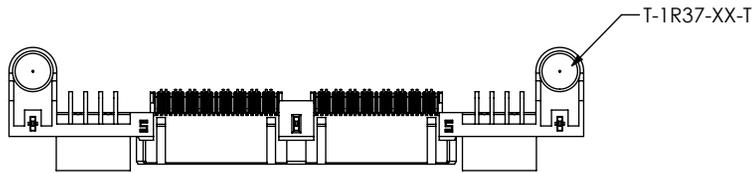


FIG 3
(QMS-032-01-XX-D-DP-RA-PC8 SHOWN)
(SAME AS FIG 2, DIFFERENT AS SHOWN)

TABLE 7

POSITION	"Q"	"R"	"S"	"T"	"U"	"V"	"W"
-16	1.855 [47.12]	1.052 [26.72]	1.605 [40.77]	2.170 [55.12]	1.920 [48.77]	1.050 [26.67]	1.080 [27.43]
-32	2.695 [68.45]	1.892 [48.06]	2.445 [62.10]	3.010 [76.45]	2.760 [70.10]	1.890 [48.01]	1.920 [48.77]
-48	3.535 [89.79]	2.732 [69.39]	3.285 [83.44]	3.850 [97.79]	3.600 [91.44]	2.730 [69.34]	2.760 [70.10]
-64	4.375 [111.13]	3.572 [90.73]	4.125 [104.78]	4.690 [119.13]	4.440 [112.78]	3.570 [90.68]	3.600 [91.44]

CPC FREQUENCY THIS SHEET

A	C17, C32, C45, C46, C47
B	C22, C23, C25, C43, C44
C	
D	

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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: 55322

DESCRIPTION:
.635mm RA DIFFERENTIAL PAIRS PLUG ASSEMBLY

DWG. NO.
QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

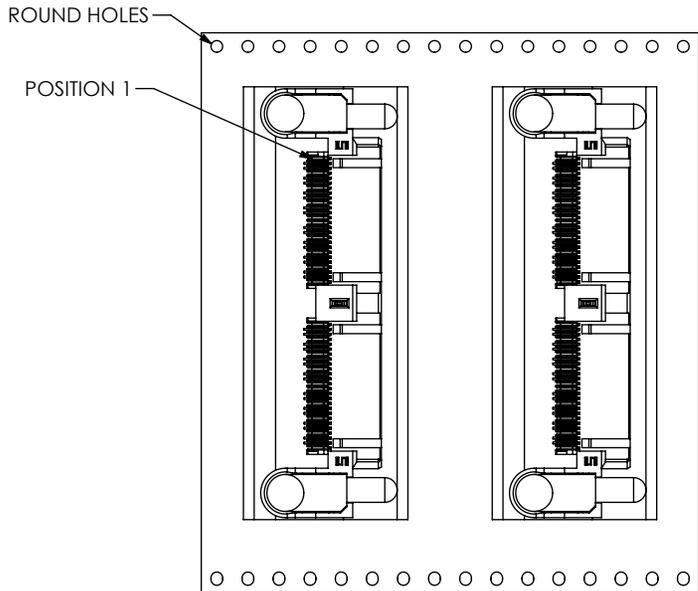
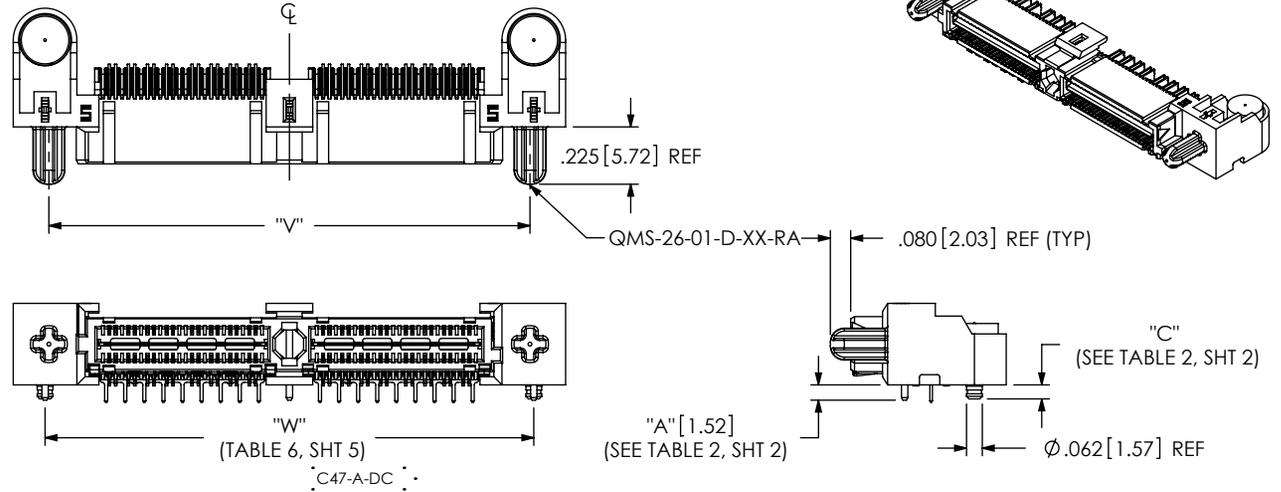
BY: BRATCHER 01/04/2007 SHEET 5 OF 6

REVISION X

CRITICAL DIMENSION INSPECTION TABLE

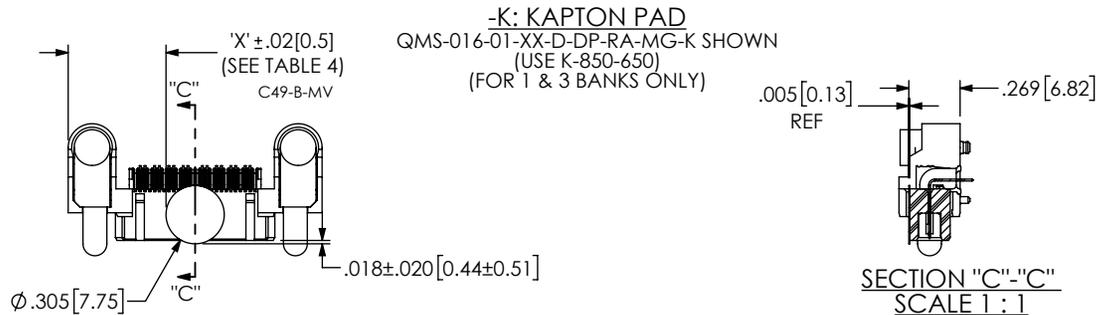
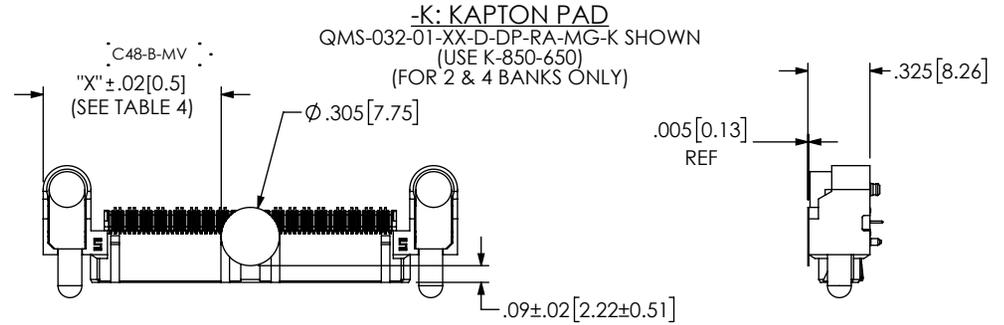
LEAD STYLE	ASSEMBLY OPERATION	IN-PROCESS
-01, -02	FILL T-1M46	C9, C32, C50
-01, -02	FILL IM-1G27	C8, C9, C10, C19, C32
-01, -02	FILL T-1M45	C8, C9, C16, C19, C32
-01, -02	FILL WT-28	C8, C7, C9, C19, C16, C32
-01, -02	FILL WT-41	C1, C8, C9, C19, C16, C7, C28, C32, C43, C44, C45, C46, C47
-01, -02	-PC4	C10, C20, C21, C23, C25, C32
-01, -02	-PC8	C10, C22, C23, C21, C25, C32
-01, -02	T-1R37	C12
-01, -02	-K	C31, C32, C48, C49

FIG4
(QMS-032-01-XX-D-DP-RA SHOWN)
(SAME AS FIG1, DIFFERENT AS SHOWN)
AVAILABLE AS ASO ONLY



USER DIRECTION OF UN-REELING →
POCKET NOT DETAILED

PACKAGING VIEW
-TR: TAPE & REEL OPTION
(QMS-032-01-XX-D-DP-RA-MG-TR SHOWN)



SECTION "C"- "C"
SCALE 1:1

	STANDARD & -MG	-PC4	-PC8
POS.	"X"		
-016	0.513 [13.03]	0.776 [19.71]	0.934 [23.71]
-032	0.933 [23.70]	1.196 [30.38]	1.354 [34.38]
-048	1.353 [34.37]	1.616 [41.05]	1.774 [45.05]
-064	1.773 [45.03]	2.036 [51.71]	2.194 [55.71]

CPC FREQUENCY THIS SHEET	
A	C7, C47
B	C12
C	
D	

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DO NOT SCALE DRAWING
SHEET SCALE: 2:1

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QMS-XXX-XX-XX-D-DP-RA-XX-XXX-X-XX

BY: BRATCHER 01/04/2007 SHEET 6 OF 6