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LOC	DIST
ES	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A4	ECR-13-009628	14JUN2013	M.T	YH.M
	A5	ECR-13-017549	11NOV2013	GRZ	TD
	A6	ECR-14-007944	30MAY2014	WW	RR
	A7	ECR-15-010757	20Jul2015	SL	RR

NOTE

1 SEE SHEET 4 FOR AVAILABLE CONFIGURATIONS

2 MATERIAL: HOUSING, NYLON, UL94 V0, 750°C GWT NO FLAME
EIGHT COLORS AVAILABLE, INCLUDING: NATURAL,
RED, BLUE, YELLOW, BLACK, GREY, GREEN, PURPLE
WHITE VERSION IS PRELIMINARY
CONTACT, COPPER ALLOY, 0.60MM THICK

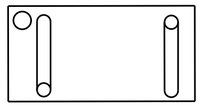
3 FINISH: OPTION 1: TIN PLATING OVER NICKEL UNDERPLATING
OPTION 2: AG PLATING OVER NICKEL UNDERPLATING

4 PCB LAYOUT AS SHOWN

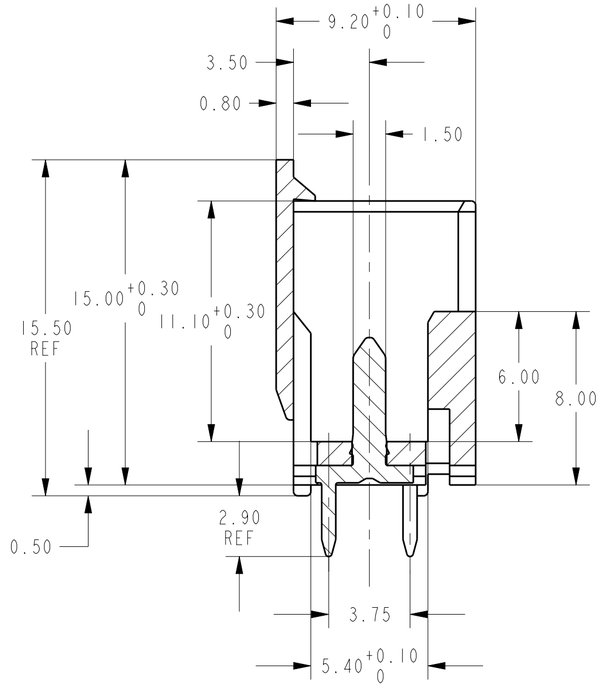
△5 THE PART NUMBERS SHOWING IN SHEET 2 & 3 & 4 ARE FOR NATURAL COLOR . THE PART NUMBER FOR OTHER COLOR ARE BASED ON THE NATURAL ONE: FOR THE SAME CONFIGURATION, THE PREFIX AND POSTFIX OF THE P/N ARE THE SAME, ONLY THE BASE NUMBER IS DIFFERENT ACCORDING TO DIFFERENT COLOR, DETAIL PLEASE SEE SHEET 5

6 PACKAGING: LOOSE PIECE OR TUBE. THE PART NUMBERS IN THIS DRAWING ARE WITH LOOSE PIECE PACKAGING. PLEASE CONTACT TE SALES REPRESENTATIVES FOR TUBE PACKAGING REQUIREMENT.

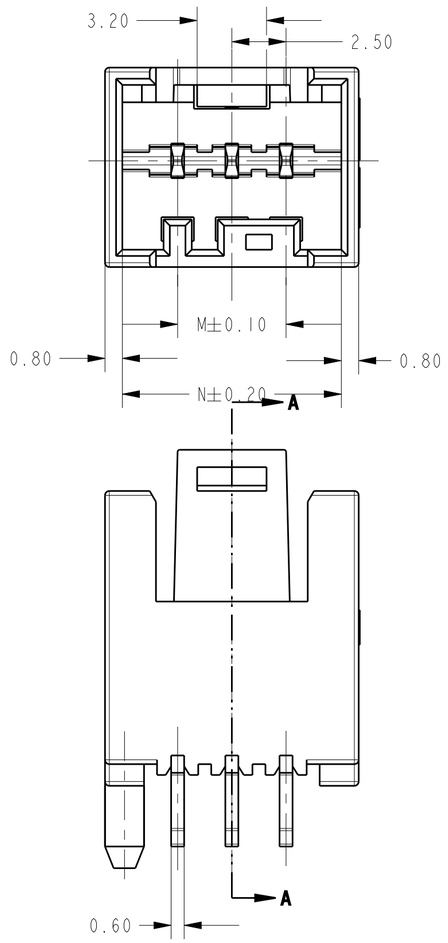
△7 FOR PN 7-1971817-5 PIN LAYOUT AS FOLLOW

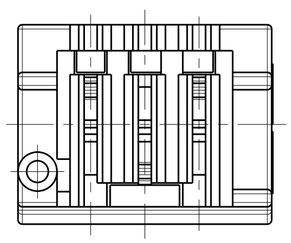


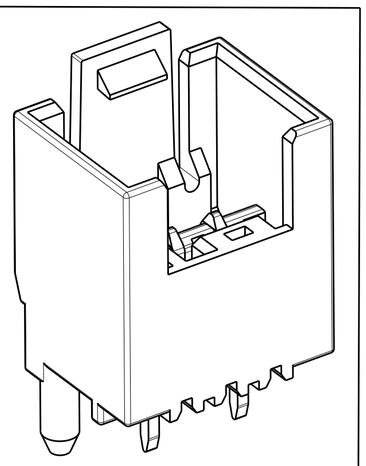
△8 PRELIMINARY PART NOT RELEASED FOR PRODUCTION

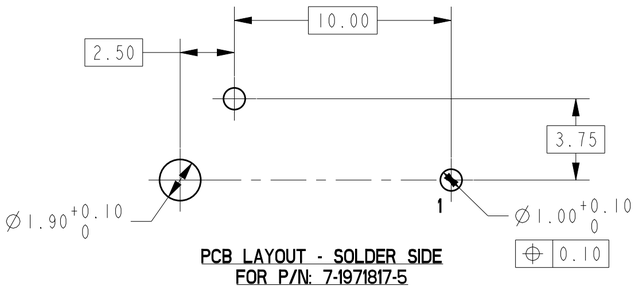


SECTION A-A

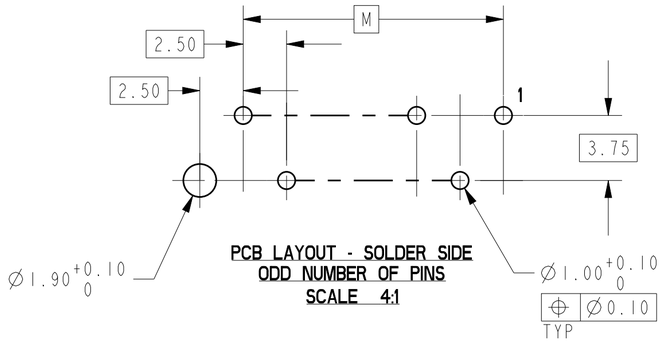




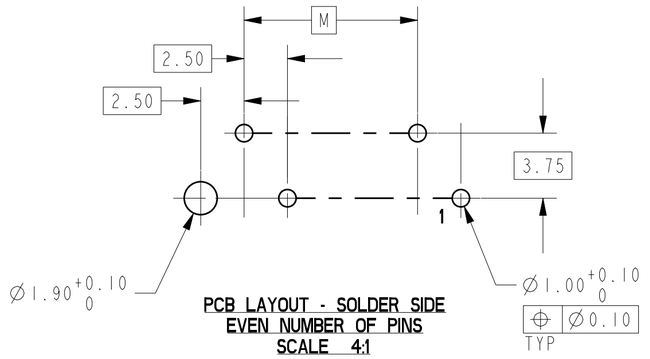




PCB LAYOUT - SOLDER SIDE
FOR P/N: 7-1971817-5



PCB LAYOUT - SOLDER SIDE
ODD NUMBER OF PINS
SCALE 4:1



PCB LAYOUT - SOLDER SIDE
EVEN NUMBER OF PINS
SCALE 4:1

40.10	35.00	15
37.60	32.50	14
35.10	30.00	13
32.60	27.50	12
30.10	25.00	11
27.60	22.50	10
25.10	20.00	9
22.60	17.50	8
20.10	15.00	7
17.60	12.50	6
15.10	10.00	5
12.60	7.50	4
10.10	5.00	3
N	M	NO. OF POS.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.20
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL -
FINISH -

DWN WINTER WANG 12NOV2012
CHK HAPYE WU 12NOV2012
APVD YUHONG MAO 12NOV2012
PRODUCT SPEC 108-106079
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME RAST 2.5 TAB HEADER ASSY
TH, VERTICAL, EXTERNAL LOCKING
-

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1971817	-

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 5 | REV A7

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LOC	DIST
ES	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD

QTY	TAB CONTACT	QTY	HOUSING	POS.	TE PART NO. 5
10	TAB CONTACT w/ SILVER PLATING	1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 10P (SEE THE DETAIL LAYOUT ON SHEET 4)	10	3-1971837-0
					2-1971837-0
					1-1971837-0
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 9P (SEE THE DETAIL LAYOUT ON SHEET 4)	9	6-1971837-9
9					5-1971837-9
					4-1971837-9
					3-1971837-9
					2-1971837-9
					1-1971837-9
8		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 8P (SEE THE DETAIL LAYOUT ON SHEET 4)	8	4-1971837-8
					3-1971837-8
					2-1971837-8
					1-1971837-8
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 7P (SEE THE DETAIL LAYOUT ON SHEET 4)	7	7-1971837-7
7					6-1971837-7
					5-1971837-7
					4-1971837-7
					3-1971837-7
					2-1971837-7
					1-1971837-7
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 6P (SEE THE DETAIL LAYOUT ON SHEET 4)	6	4-1971837-6
					3-1971837-6
					2-1971837-6
					1-1971837-6
5		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 5P (SEE THE DETAIL LAYOUT ON SHEET 4)	5	4-1971837-5
					3-1971837-5
					2-1971837-5
					1-1971837-5
4		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 4P (SEE THE DETAIL LAYOUT ON SHEET 4)	4	7-1971837-4
					6-1971837-4
					5-1971837-4
					4-1971837-4
					3-1971837-4
					2-1971837-4
					1-1971837-4
3		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 3P (SEE THE DETAIL LAYOUT ON SHEET 4)	3	1971837-3
					9-1971837-3
					8-1971837-3
					7-1971837-3
					6-1971837-3
					5-1971837-3
					4-1971837-3
					3-1971837-3
					2-1971837-3
					1-1971837-3
15	TAB CONTACT w/ SILVER PLATING	1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 15P (SEE THE DETAIL LAYOUT ON SHEET 4)	15	3-1971838-5
					2-1971838-5
					1-1971838-5
9		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 14P (SEE THE DETAIL LAYOUT ON SHEET 4)	14	2-1971838-4
14					1-1971838-4
13		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 13P (SEE THE DETAIL LAYOUT ON SHEET 4)	13	1-1971838-3
8		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 12P (SEE THE DETAIL LAYOUT ON SHEET 4)	12	2-1971838-2
12					1-1971838-2
11		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 11P (SEE THE DETAIL LAYOUT ON SHEET 4)	11	2-1971838-1
					1-1971838-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.20
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL -

FINISH -

DWN WINTER WANG 12NOV2012
CHK HAPYE WU 12NOV2012
APVD YUHONG MAO 12NOV2012
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME RAST 2.5 TAB HEADER ASSY TH, VERTICAL, EXTERNAL LOCKING -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1971817	-

CUSTOMER DRAWING

SCALE NTS SHEET 2 OF 5 REV A7

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LOC	DIST
ES	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD

QTY	TAB CONTACT	QTY	HOUSING	POS.	TE PART NO 5
10	TAB CONTACT w/ TIN PLATING	1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 10P (SEE THE DETAIL LAYOUT ON SHEET 4)	10	3-1971817-0
					2-1971817-0
					1-1971817-0
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 9P (SEE THE DETAIL LAYOUT ON SHEET 4)	9	6-1971817-9
9					5-1971817-9
					4-1971817-9
					3-1971817-9
					2-1971817-9
					1-1971817-9
8		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 8P (SEE THE DETAIL LAYOUT ON SHEET 4)	8	4-1971817-8
					3-1971817-8
					2-1971817-8
					1-1971817-8
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 7P (SEE THE DETAIL LAYOUT ON SHEET 4)	7	7-1971817-7
7					6-1971817-7
					5-1971817-7
					4-1971817-7
					3-1971817-7
					2-1971817-7
					1-1971817-7
6		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 6P (SEE THE DETAIL LAYOUT ON SHEET 4)	6	4-1971817-6
					3-1971817-6
					2-1971817-6
					1-1971817-6
2		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 5P (SEE THE DETAIL LAYOUT ON SHEET 4)	5 (7)	7-1971817-5 (8)
5					6-1971817-5 (8)
					4-1971817-5
					3-1971817-5
					2-1971817-5
					1-1971817-5
4		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 4P (SEE THE DETAIL LAYOUT ON SHEET 4)	4	7-1971817-4
					6-1971817-4
					5-1971817-4
					4-1971817-4
					3-1971817-4
					2-1971817-4
					1-1971817-4
3		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 3P (SEE THE DETAIL LAYOUT ON SHEET 4)	3	1971817-3
					9-1971817-3
					8-1971817-3
					7-1971817-3
					6-1971817-3
					5-1971817-3
					4-1971817-3
					3-1971817-3
					2-1971817-3
					1-1971817-3

QTY	TAB CONTACT	QTY	HOUSING	POS.	TE PART NO 5
15	TAB CONTACT w/ TIN PLATING	1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 15P (SEE THE DETAIL LAYOUT ON SHEET 4)	15	3-1971818-5
					2-1971818-5
					1-1971818-5
9		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 14P (SEE THE DETAIL LAYOUT ON SHEET 4)	14	2-1971818-4
14					1-1971818-4
13		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 13P (SEE THE DETAIL LAYOUT ON SHEET 4)	13	1-1971818-3
8		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 12P (SEE THE DETAIL LAYOUT ON SHEET 4)	12	2-1971818-2
12					1-1971818-2
11		1	RAST 2.5 TAB HEADER HOUSING, EXTERNAL LOCKING, 11P (SEE THE DETAIL LAYOUT ON SHEET 4)	11	2-1971818-1
					1-1971818-1

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3 PLC ±-
4 PLC ±-
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MATERIAL -

FINISH -

DWN WINTER WANG 12NOV2012
CHK HAPYE WU 12NOV2012
APVD YUHONG MAO 12NOV2012

PRODUCT SPEC -

APPLICATION SPEC -

WEIGHT -

CUSTOMER DRAWING

TE Connectivity

NAME RAST 2.5 TAB HEADER ASSY TH, VERTICAL, EXTERNAL LOCKING -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1971817	-

SCALE	SHEET	REV
NTS	3 OF 5	A7

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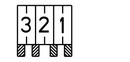
LOC	DIST
-	-

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD



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1-1971837-3

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2-1971837-3

3-1971817-3 △5
3-1971837-3

4-1971817-3 △5
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7-1971837-3

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8-1971817-3 △5
8-1971837-3

1971817-3 △5
1971837-3

3 POS

1-1971817-4 △5
1-1971837-4

2-1971817-4 △5
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3-1971817-4 △5
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5-1971817-4 △5
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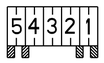

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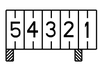

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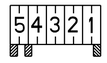

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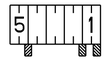

△7 7-1971817-5 △8 △5
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5 POS

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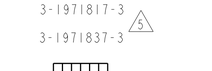
2-1971838-2



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2-1971838-1

11 POS

1-1971818-3 △5
1-1971838-3

6 POS

1-1971817-6 △5
1-1971837-6

2-1971817-6 △5
2-1971837-6

3-1971817-6 △5
3-1971837-6

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(A6) 2-1971818-4 △5
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4-1971837-7

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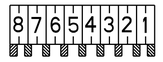
7-1971837-7

7 POS



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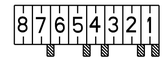

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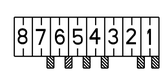

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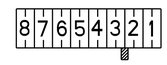

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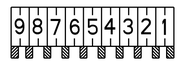
3-1971837-8

8 POS



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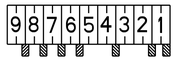
1-1971837-9



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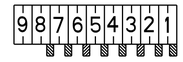
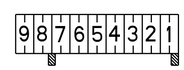
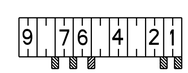
2-1971837-9



3-1971817-9 △5
3-1971837-9



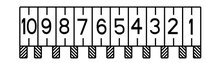
4-1971817-9 △5
4-1971837-9



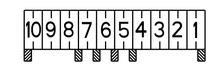
5-1971817-9 △5
5-1971837-9

6-1971817-9 △5
6-1971837-9

9 POS



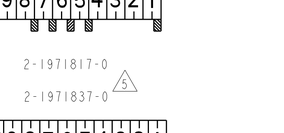
1-1971817-0 △5
1-1971837-0



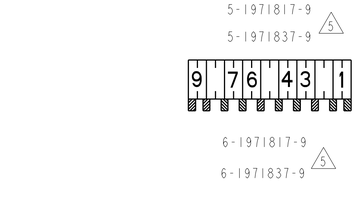
2-1971817-0 △5
2-1971837-0

3-1971817-0 △5
3-1971837-0

10 POS

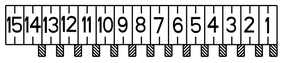


PICTORIAL VIEW KEY



1-1971818-5 △5
1-1971838-5

2-1971818-5 △5
2-1971838-5



3-1971818-5 △5
3-1971838-5

15 POS

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.20
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL - -
FINISH - -

DWN	WINTER WANG	12NOV2012
CHK	HAPYE WU	12NOV2012
APVD	YUHONG MAO	12NOV2012
PRODUCT SPEC	-	
APPLICATION SPEC	-	
WEIGHT	-	

TE Connectivity

NAME - - -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1971817	-

SCALE	SHEET	OF	REV
NTS	4	5	A7

CUSTOMER DRAWING

4805 (3/11)

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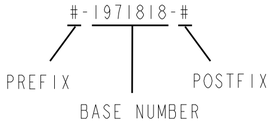
LOC	DIST
ES	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD

FOR ANY KEYING CONFIGURATION, THERE ARE EIGHT COLORS AVAILABLE, BESIDES THE NATURAL COLOR, THERE ARE OTHER SEVEN COLORS, INCLUDE: YELLOW, BLUE, GREY, PURPLE, RED, GREEN, BLACK. THE WHITE VERSION IS PRELIMINARY. THE P/N OF THE COLOR CONNECTOR ARE BASED ON THE NATURAL CONNECTOR, THE PREFIX AND POSTFIX ARE THE SAME FOR THE SAME KEYING CONFIGURATION, BUT THE BASE NUMBERS ARE DIFFERENT ACCORDING TO DIFFERENT COLOR.THE FOLLOWING SHOWS WHAT'S THE P/N FOR COLOR CONNECTOR



COLOR	PART NUMBER OF THE CONNECTOR 5				COMMENTS
	WITH TIN PLATING CONTACT		WITH AG PLATING CONTACT		
NATURAL	#-1971817-#	#-1971818-#	#-1971837-#	#-1971838-#	THE DETAIL P/N FOR DIFFERENT KEYING SEE SHEET 2 & 3 & 4
RED	#-1971938-#	#-1971939-#	#-2232141-#	#-2232142-#	THE PREFIX AND POSTFIX ARE THE SAME WITH THE P/N OF THE NATURAL CONNECTOR FOR THE SAME KEYING CONFIGURATION, JUST THE BASE NUMBERS ARE DIFFERENT BASED ON DIFFERENT COLOR. # CAN BE THE NUMBER FROM 0 TO 9.
BLUE	#-2232143-#	#-2232144-#	#-2232145-#	#-2232146-#	
YELLOW	#-2232147-#	#-2232148-#	#-2232149-#	#-2232150-#	
BALCK	#-1971994-#	#-1971995-#	#-2232151-#	#-2232152-#	
GREY	#-1971976-#	#-1971977-#	#-2232153-#	#-2232154-#	
GREEN	#-1971988-#	#-1971989-#	#-2232155-#	#-2232156-#	
PURPLE	#-2232157-#	#-2232158-#	#-2232159-#	#-2232160-#	
WHITE	#-2232277-#	#-2232278-#	#-2232279-#	#-2232280-#	

FOR EXAMPLE,IF A CONNECTOR WITH THE CONFIGURATION AS BELOW, AND WITH TIN PLATING CONTACT, IN THE SHEET 4, WE CAN FIND THE RELATED CONNECTOR P/N WITH NATURAL COLOR IS 5-1971817-4, THEN WE CAN LOOK IN THE ABOVE TABLE TO FIND THE CONNECTOR P/N WITH RED COLOR IS 5-1971938-4

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.20
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL -

FINISH -

DWN 12NOV2012 WINTER WANG
CHK 12NOV2012 HAPYE WU
APVD 12NOV2012 YUHONG MAO

PRODUCT SPEC 108-106079

APPLICATION SPEC -

WEIGHT -

CUSTOMER DRAWING

TE Connectivity

NAME RAST 2.5 TAB HEADER ASSY TH, VERTICAL, EXTERNAL LOCKING -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1971817	-

SCALE NTS SHEET 5 OF 5 REV A7