

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	Production Release	17JUN2026	M.S	J.M

- NOTES:
- 1

2
1. MATERIAL Spec:

1) HOUSING: PA9T ,UL94 V-0, COLOR – NATURAL & BLACK

2) CAP: LCP, UL94 V-0, BLACK

3) CONTACT : COPPER ALLOY
2. PLATING Spec:

Contact Area: 0.762um-3.048um[30u"-120u"]MATTE TIN Min

OVER 0.762-2.032um[30u"-80u"] NICKEL

Solder Area: 2.032um[80u"] MATTE TIN Min OVER

0.762-2.032um[30u"-80u"] NICKEL
3. ELECTRICAL Spec:

CONTACT RESISTANCE: 20 mΩ MAX

CURRENT RATING: 2A

VOLTAGE RATING: 200 VAC

INSULATION RESISTANCE: 1000 MΩ

DIELECTRIC WITHSTAND VOLTAGE: 200V AC
4. ENVIRONMENTAL Spec:

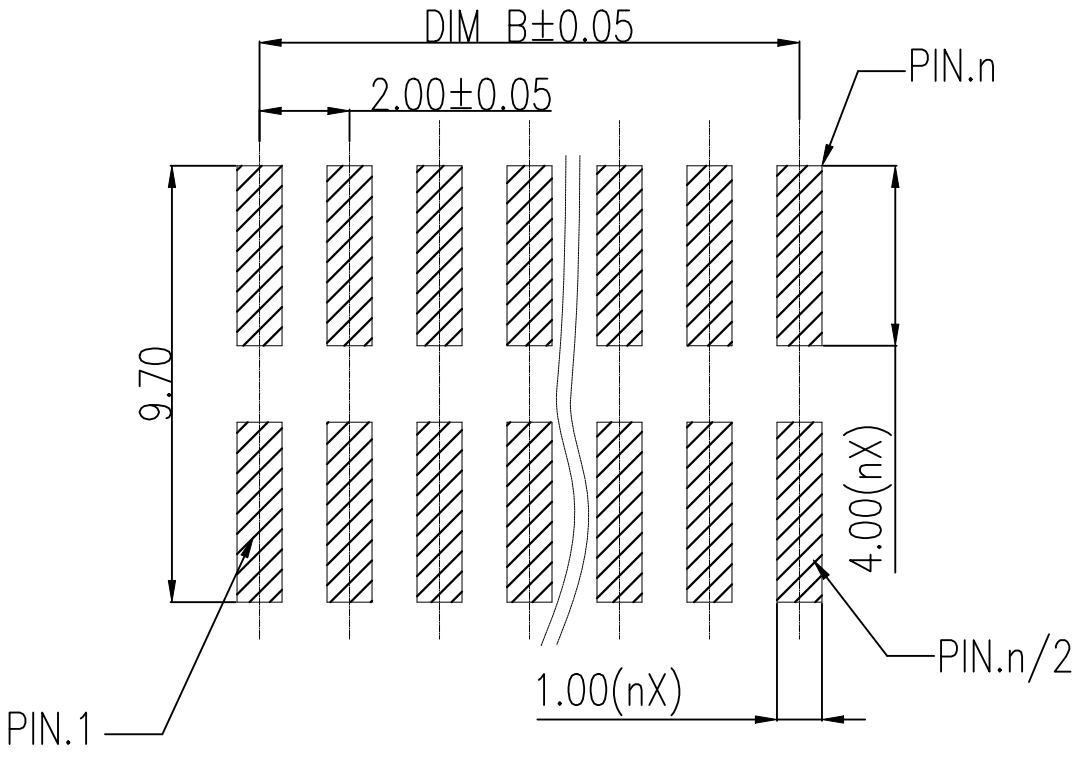
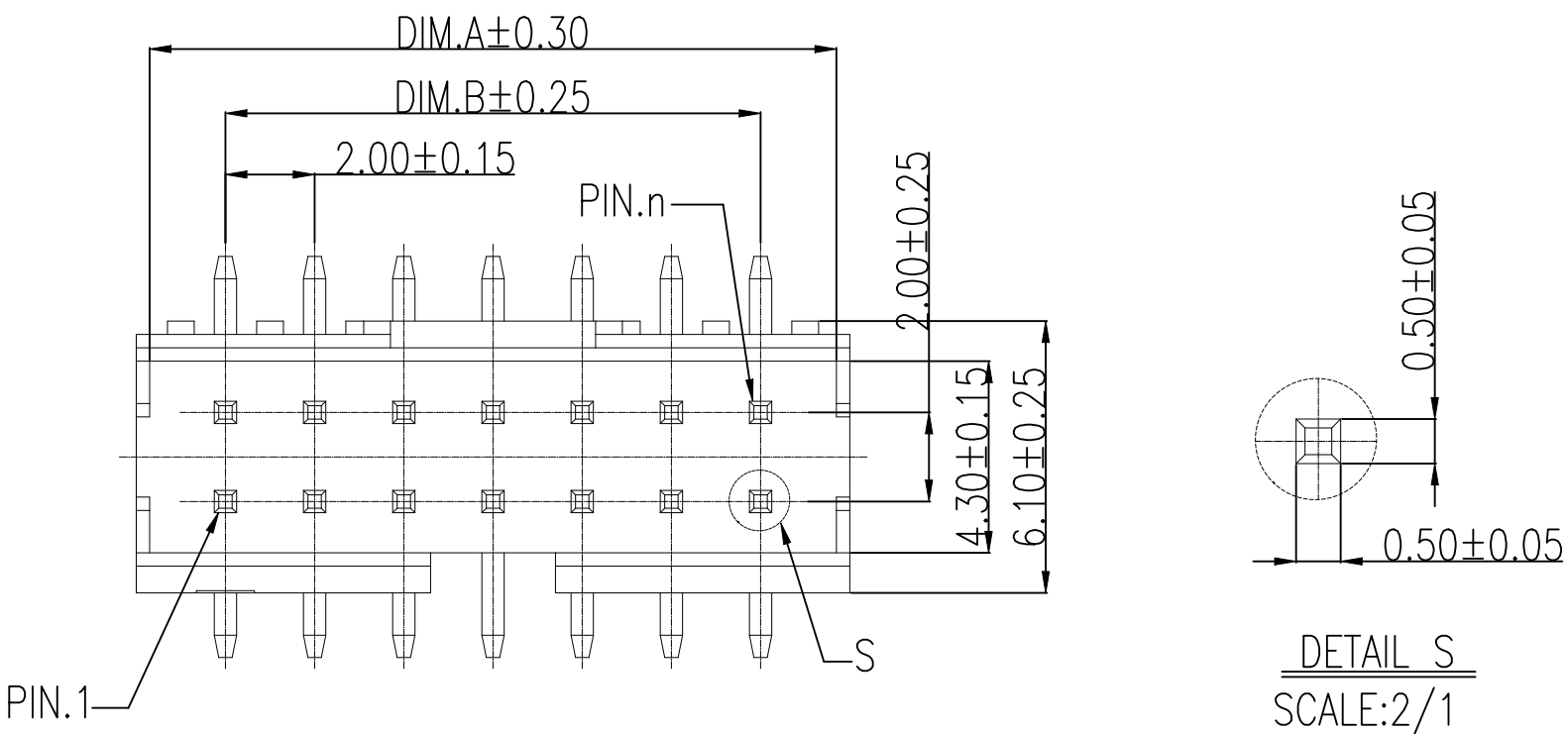
OPERATING TEMPERATURE: -40°C – +105°C

SOLDERING PROCESS CAPABILITY: 260°C
5. MECHANICAL Spec:

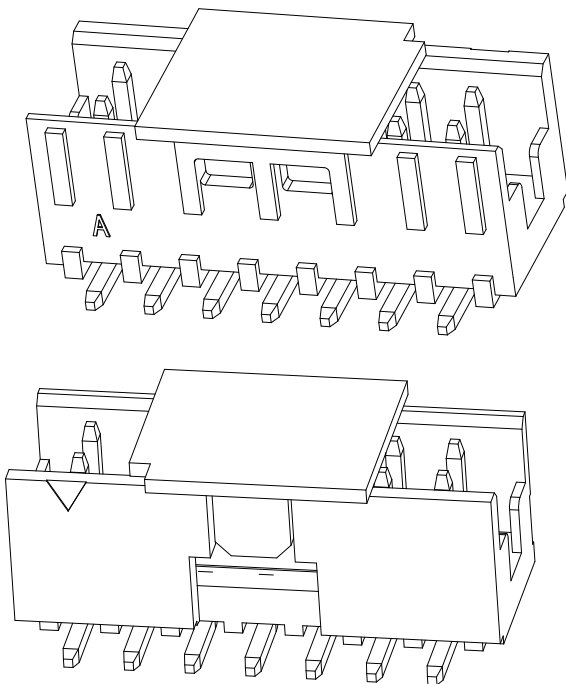
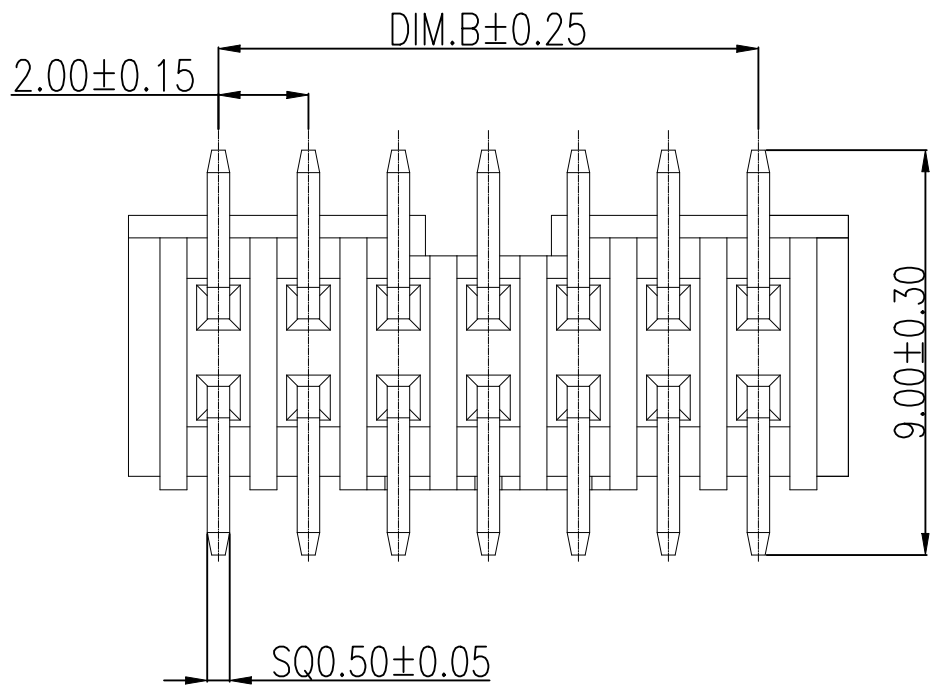
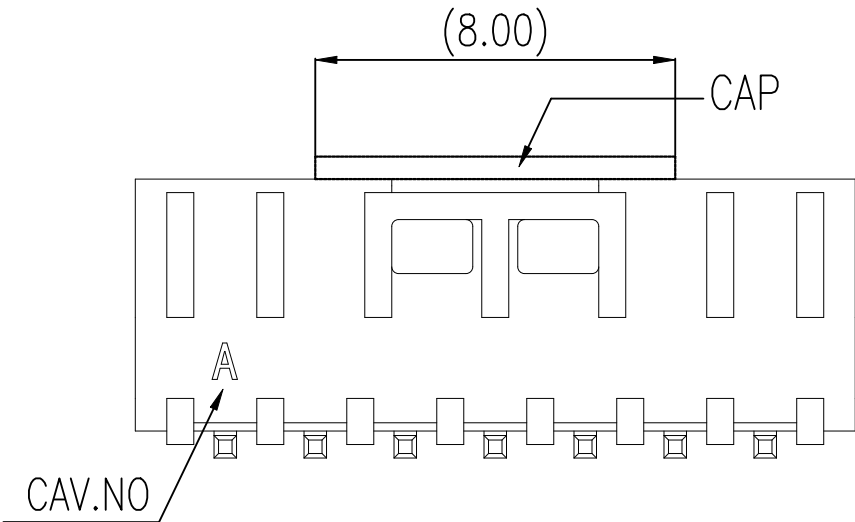
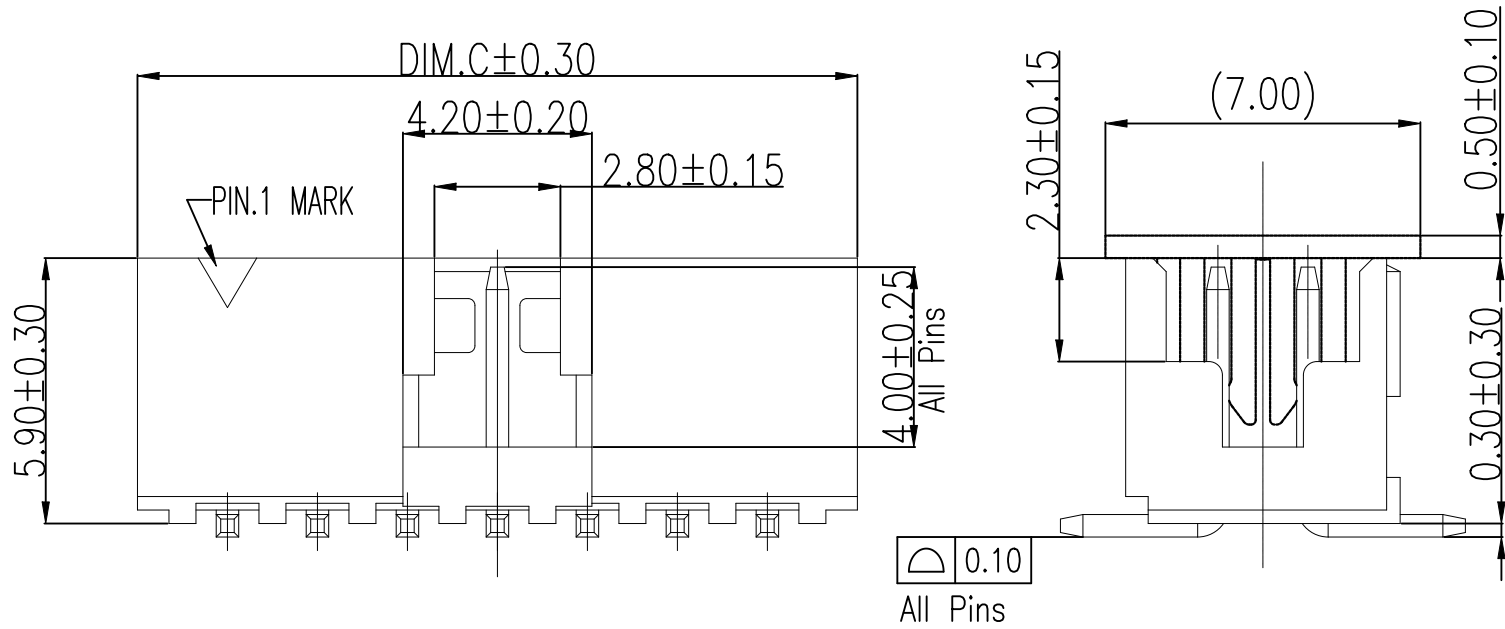
DURABILITY: 100 CYCLES

INSERTION FORCE : 1.8N/PIN MAX

WITHDRAWAL FORCE : 0.2N/PIN MIN
6. Cap not shown in all views for better view of part



Recommended P.C.B Layout(Top Side)
(PCB BOARD TOLERANCE±0.05)



3D VIEW

TE Marketing PN

2MM-HPI-HDR-2R-XX-XX-XX-X-X-TRP

PRODUCT PITCH	2MM Pitch of the connector	PACKAGING METHOD	TRP Tape & Reel Packaging BLK Bulk Packaging
PRODUCT SERIES	HPI High Performance Interconnect Series	MATERIAL COLOUR	N Natural B Black
PRODUCT TYPE	HDR PIN Header HSG SOCKET Housing	CONTACT AREA PLATING	X NA for Socket Housing T Matte Tin – 0.762µm Min[30µ" Min] H Gold – 0.762µm[30µ" M Gold – 0.381µm[15µ" F Gold-Flash – 0.0254µm[1µ"
NUMBER OF ROWS	2R DUAL ROW	SOLDER TAIL LENGTH	XX NA for Socket Housing 00 For Surface Mount 01 2.00mm[0.079" 02 2.50mm[0.098" 03 3.10mm[0.122" 04 3.70mm[0.146"
NUMBER OF PINS PER ROW	## 03 thru 25 (enter two digits)		
ORIENTATION & TERMINATION	XX NA for Socket Housing VT Vertical Through hole VS Vertical Surface mount		

See sheet 2 for internal TCPN and dimension details

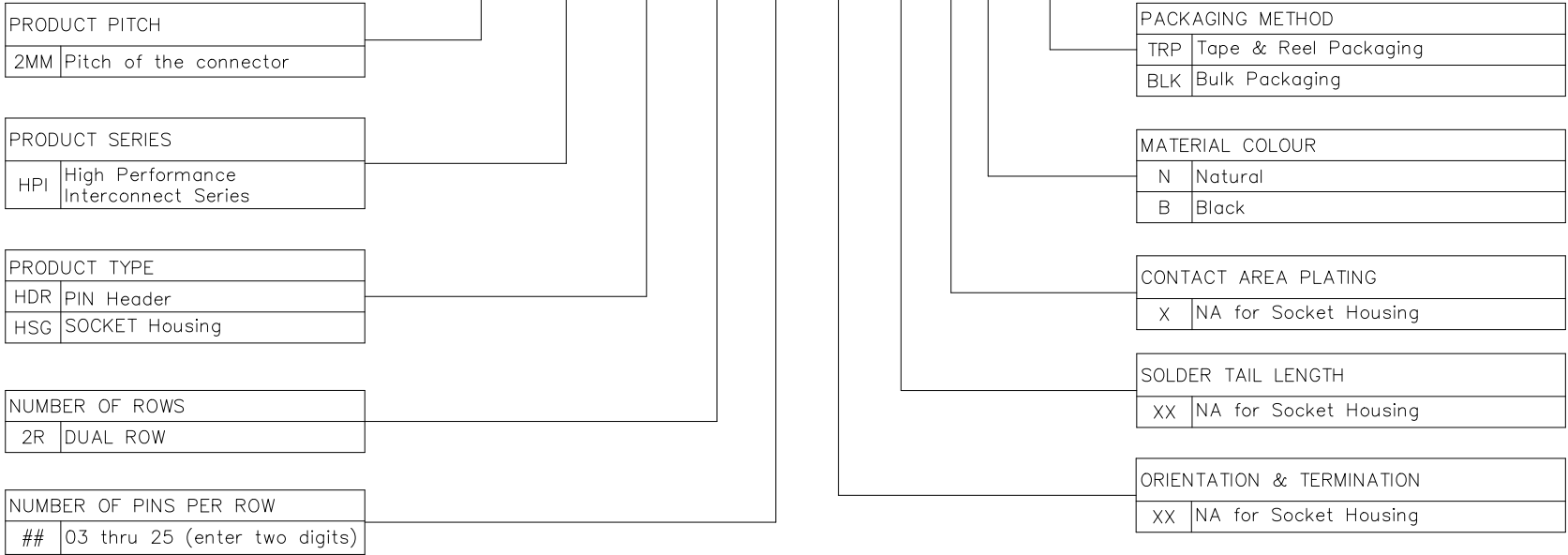
Drawing for 2MM-HPI-HDR-2R-xx-VS-00-T-x-TRP

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04MAR2026 Madhan S	TE Connectivity		
DIMENSIONS: mm [INCHES]		CHK 05MAR2026 Madhan S			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD 05MAR2026 Jagruiti M	NAME		
0 PLC ± - 1 PLC ± 0.35 2 PLC ± 0.30 3 PLC ± 0.15 4 PLC ± - ANGLES ± 2°		PRODUCT SPEC	2MM 2R WTB HPI HEADER – SURFACE MOUNT PLATING: MATTE TIN		
MATERIAL		APPLICATION SPEC	-		
FINISH		WEIGHT 0	SIZE A2	CAGE CODE 00779	DRAWING NO C=2539093
		CUSTOMER DRAWING	SCALE 1:1	SHEET 1 of 4	REV A

1 MATERIAL: NATURAL		2 MATERIAL: BLACK		POS	DIM A	DIM B	DIM C
TE MARKETING PN	INTERNAL TCPN	TE MARKETING PN	INTERNAL TCPN				
2MM-HPI-HDR-2R-03-VS-00-T-N-TRP	2539093-3	2MM-HPI-HDR-2R-03-VS-00-T-B-TRP	3-2539093-3	6P(2x3P)	7.40	4.00	8.00
2MM-HPI-HDR-2R-04-VS-00-T-N-TRP	2539093-4	2MM-HPI-HDR-2R-04-VS-00-T-B-TRP	3-2539093-4	8P(2x4P)	9.40	6.00	10.00
2MM-HPI-HDR-2R-05-VS-00-T-N-TRP	2539093-5	2MM-HPI-HDR-2R-05-VS-00-T-B-TRP	3-2539093-5	10P(2x5P)	11.40	8.00	12.00
2MM-HPI-HDR-2R-06-VS-00-T-N-TRP	2539093-6	2MM-HPI-HDR-2R-06-VS-00-T-B-TRP	3-2539093-6	12P(2x6P)	13.40	10.00	14.00
2MM-HPI-HDR-2R-07-VS-00-T-N-TRP	2539093-7	2MM-HPI-HDR-2R-07-VS-00-T-B-TRP	3-2539093-7	14P(2x7P)	15.40	12.00	16.00
2MM-HPI-HDR-2R-08-VS-00-T-N-TRP	2539093-8	2MM-HPI-HDR-2R-08-VS-00-T-B-TRP	3-2539093-8	16P(2x8P)	17.40	14.00	18.00
2MM-HPI-HDR-2R-09-VS-00-T-N-TRP	2539093-9	2MM-HPI-HDR-2R-09-VS-00-T-B-TRP	3-2539093-9	18P(2x9P)	19.40	16.00	20.00
2MM-HPI-HDR-2R-10-VS-00-T-N-TRP	1-2539093-0	2MM-HPI-HDR-2R-10-VS-00-T-B-TRP	4-2539093-0	20P(2x10P)	21.40	18.00	22.00
2MM-HPI-HDR-2R-11-VS-00-T-N-TRP	1-2539093-1	2MM-HPI-HDR-2R-11-VS-00-T-B-TRP	4-2539093-1	22P(2x11P)	23.40	20.00	24.00
2MM-HPI-HDR-2R-12-VS-00-T-N-TRP	1-2539093-2	2MM-HPI-HDR-2R-12-VS-00-T-B-TRP	4-2539093-2	24P(2x12P)	25.40	22.00	26.00
2MM-HPI-HDR-2R-13-VS-00-T-N-TRP	1-2539093-3	2MM-HPI-HDR-2R-13-VS-00-T-B-TRP	4-2539093-3	26P(2x13P)	27.40	24.00	28.00
2MM-HPI-HDR-2R-14-VS-00-T-N-TRP	1-2539093-4	2MM-HPI-HDR-2R-14-VS-00-T-B-TRP	4-2539093-4	28P(2x14P)	29.40	26.00	30.00
2MM-HPI-HDR-2R-15-VS-00-T-N-TRP	1-2539093-5	2MM-HPI-HDR-2R-15-VS-00-T-B-TRP	4-2539093-5	30P(2x15P)	31.40	28.00	32.00
2MM-HPI-HDR-2R-16-VS-00-T-N-TRP	1-2539093-6	2MM-HPI-HDR-2R-16-VS-00-T-B-TRP	4-2539093-6	32P(2x16P)	33.40	30.00	34.00
2MM-HPI-HDR-2R-17-VS-00-T-N-TRP	1-2539093-7	2MM-HPI-HDR-2R-17-VS-00-T-B-TRP	4-2539093-7	34P(2x17P)	35.40	32.00	36.00
2MM-HPI-HDR-2R-18-VS-00-T-N-TRP	1-2539093-8	2MM-HPI-HDR-2R-18-VS-00-T-B-TRP	4-2539093-8	36P(2x18P)	37.40	34.00	38.00
2MM-HPI-HDR-2R-19-VS-00-T-N-TRP	1-2539093-9	2MM-HPI-HDR-2R-19-VS-00-T-B-TRP	4-2539093-9	38P(2x19P)	39.40	36.00	40.00
2MM-HPI-HDR-2R-20-VS-00-T-N-TRP	2-2539093-0	2MM-HPI-HDR-2R-20-VS-00-T-B-TRP	5-2539093-0	40P(2x20P)	41.40	38.00	42.00
2MM-HPI-HDR-2R-21-VS-00-T-N-TRP	2-2539093-1	2MM-HPI-HDR-2R-21-VS-00-T-B-TRP	5-2539093-1	42P(2x21P)	43.40	40.00	44.00
2MM-HPI-HDR-2R-22-VS-00-T-N-TRP	2-2539093-2	2MM-HPI-HDR-2R-22-VS-00-T-B-TRP	5-2539093-2	44P(2x22P)	45.40	42.00	46.00
2MM-HPI-HDR-2R-23-VS-00-T-N-TRP	2-2539093-3	2MM-HPI-HDR-2R-23-VS-00-T-B-TRP	5-2539093-3	46P(2x23P)	47.40	44.00	48.00
2MM-HPI-HDR-2R-24-VS-00-T-N-TRP	2-2539093-4	2MM-HPI-HDR-2R-24-VS-00-T-B-TRP	5-2539093-4	48P(2x24P)	49.40	46.00	50.00
2MM-HPI-HDR-2R-25-VS-00-T-N-TRP	2-2539093-5	2MM-HPI-HDR-2R-25-VS-00-T-B-TRP	5-2539093-5	50P(2x25P)	51.40	48.00	52.00

Mates with the PN: 2539104-x & x-2539104-x(TE Internal PN)

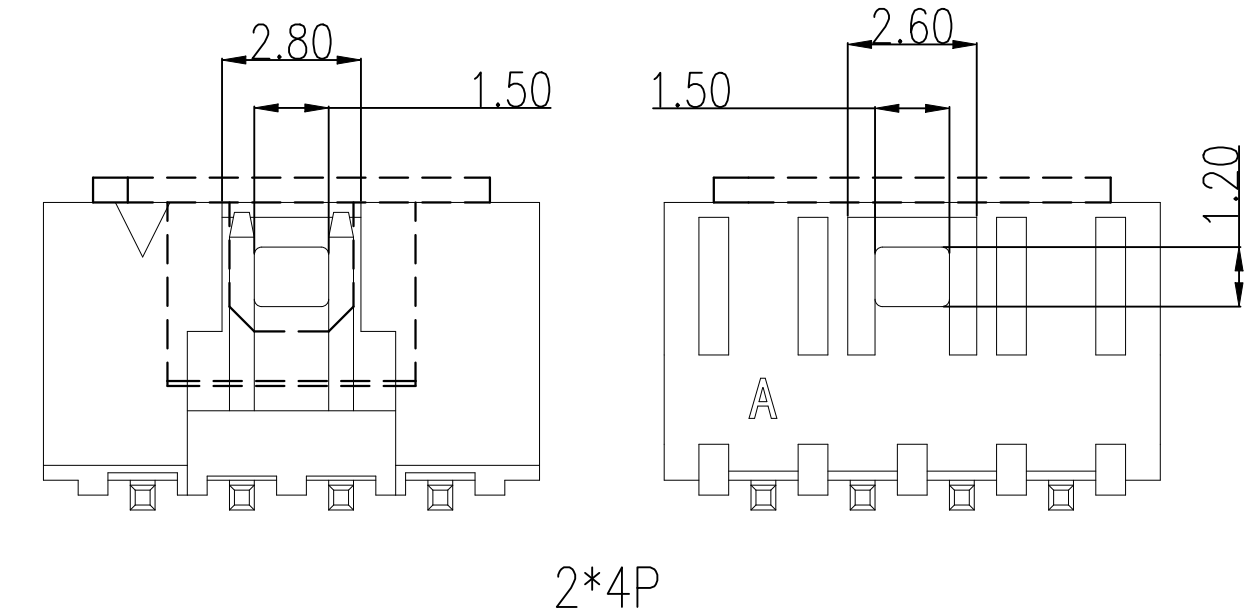
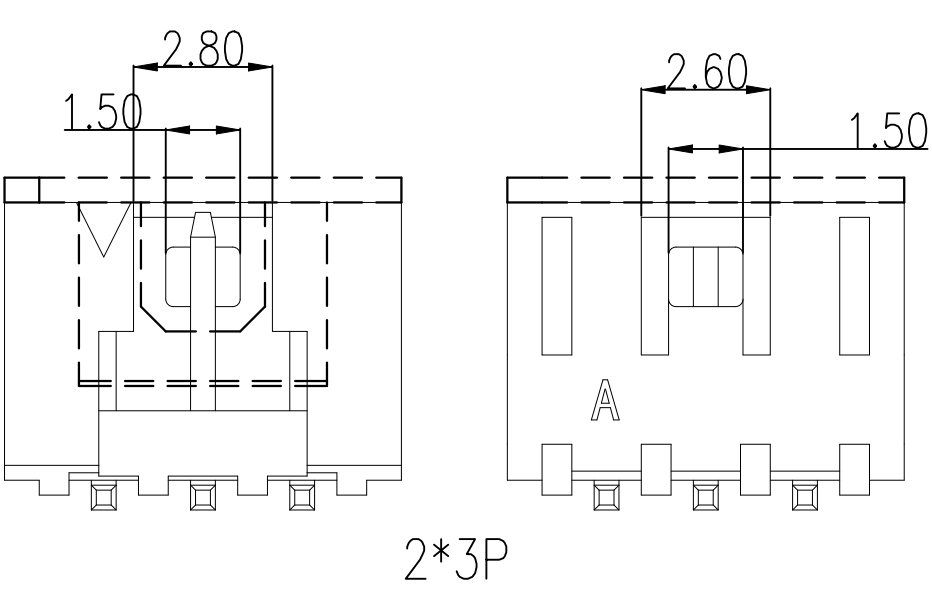
2MM-HPI-HSG-2R-XX-XX-XX-X-X-BLK



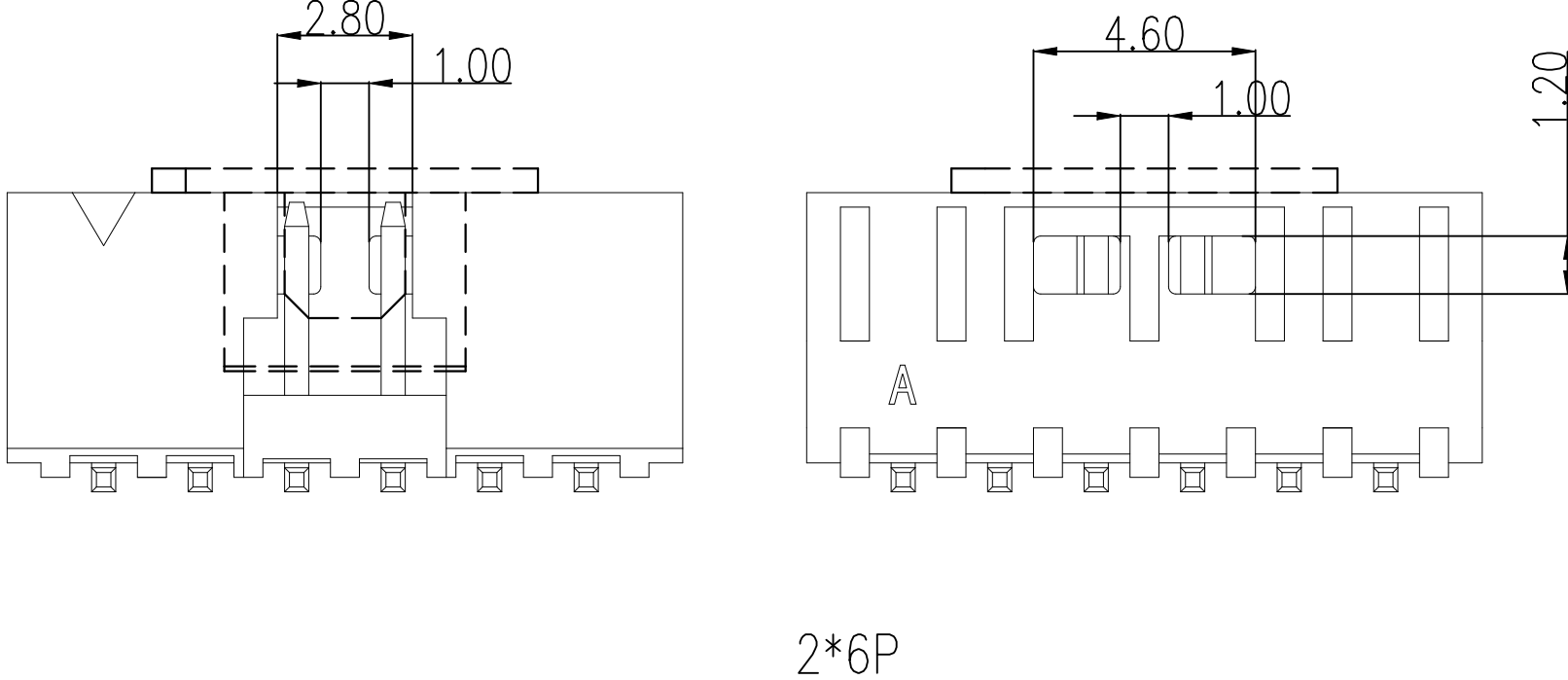
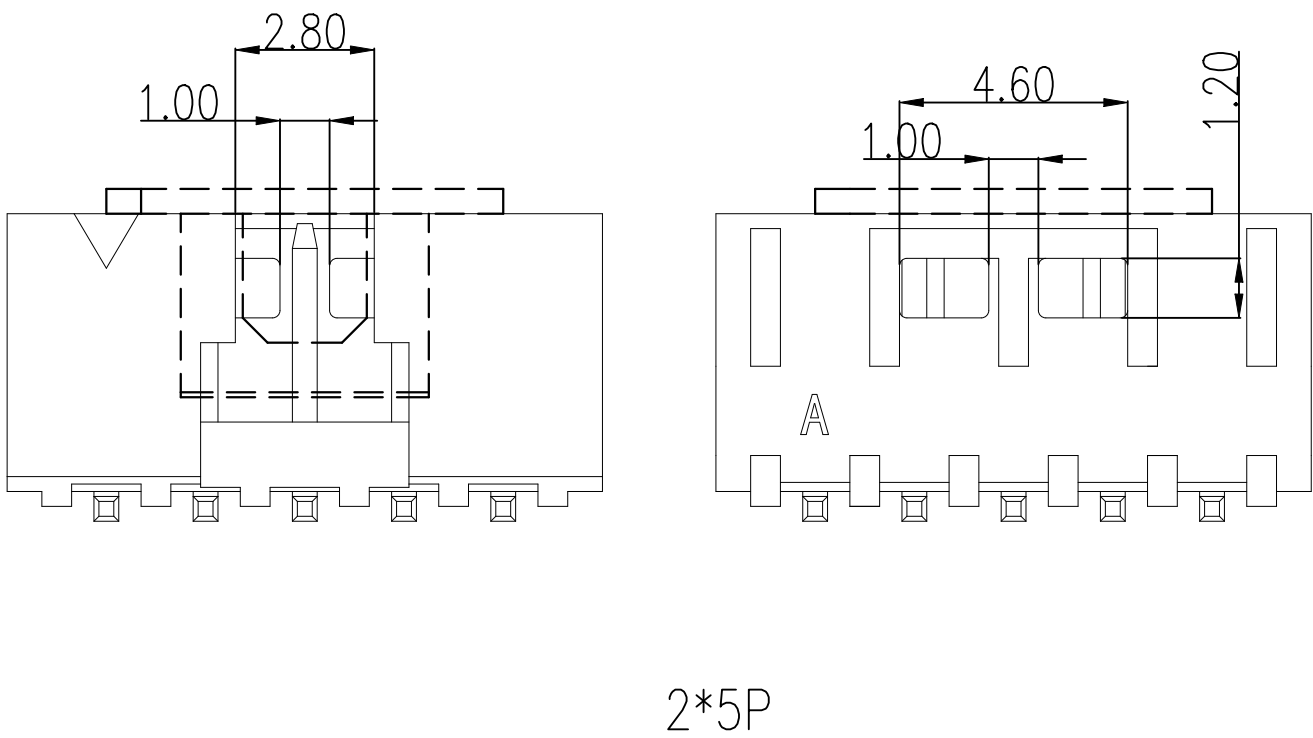
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN Madhan S 04MAR2026	TE Connectivity				
		CHK Madhan S 05MAR2026					
DIMENSIONS: mm [INCHES]		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD Jagruiti M 05MAR2026		NAME 2MM 2R WTB HPI HEADER – SURFACE MOUNT PLATING: MATTE TIN	
		0 PLC ± - 1 PLC ± 0.35 2 PLC ± 0.30 3 PLC ± 0.15 4 PLC ± - ANGLES ± 2°		PRODUCT SPEC —		SIZE A2	
				APPLICATION SPEC —		CAGE CODE 00779	
MATERIAL —		FINISH —		WEIGHT 0		DRAWING NO C=2539093	
CUSTOMER DRAWING				SCALE 1:1		SHEET 2 OF 4	
				REV A		RESTRICTED TO —	

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

* Remark: 2*3P,2*4P Configuration



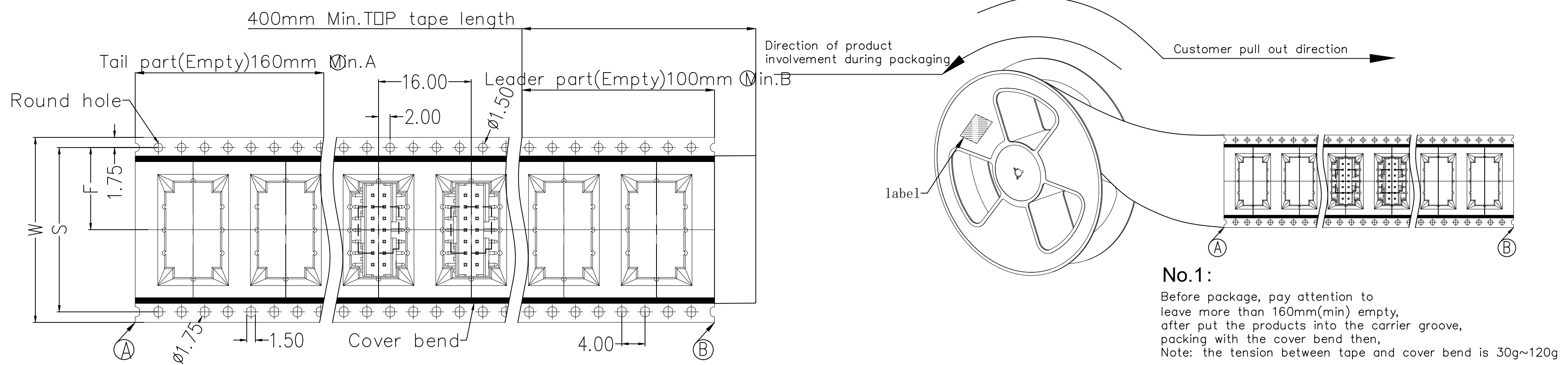
* Remark: 2*5P~2*25P Configuration



*NOTE: 2*3P AND 2*4P HOUSINGS ARE SINGLE DETENT; 2*5P ~ 2*25P HOUSINGS ARE DOUBLE DETENT.
FOR THE LOCKING HOOK FEATURES OF 2*5P TO 2*25P HOUSINGS, PLEASE REFER TO THE 2*5P AND 2*6P ILLUSTRATIONS PROVIDED ABOVE.

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DIMENSIONS: mm [INCHES]		CHK Madhan S 05MAR2026		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD Jagruiti M 05MAR2026	NAME 2MM 2R WTB HPI HEADER – SURFACE MOUNT PLATING: MATTE TIN	
0 PLC ± - 1 PLC ± 0.35 2 PLC ± 0.30 3 PLC ± 0.15 4 PLC ± - ANGLES ± 2°		PRODUCT SPEC APPLICATION SPEC	SIZE A2	
MATERIAL -		WEIGHT -	CAGE CODE 00779	DRAWING NO C=2539093
FINISH -		CUSTOMER DRAWING		RESTRICTED TO -
		SCALE 1:1	SHEET 3 OF 4	REV A

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
—	—	SEE SHEET 1	—	—	—



POS	W	S	F	PCS/Reel	PCS/Inner box	PCS/Outer box
6P(2x3P)	24.0±0.30	\	11.50±0.15	600	1800	5400
8P(2x4P)	24.0±0.30	\	11.50±0.15	600	1800	5400
10P(2x5P)	24.0±0.30	\	11.50±0.15	600	1800	5400
12P(2x6P)–16P(2x8P)	32.0±0.30	28.40±0.15	14.20±0.15	600	1200	3600
18P(2x9P)–28P(2x14P)	44.0±0.30	40.40±0.15	20.20±0.15	600	1200	3600
30P(2x15P)–40P(2x20P)	56.0±0.30	52.40±0.15	26.20±0.15	600	600	1800
42P(2x21P)–50P(2x25P)	72.0±0.30	68.40±0.15	34.20±0.15	600	600	1800

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DIMENSIONS: mm [INCHES]		CHK Madhan S 05MAR2026				
		APVD Jagruhi M 05MAR2026	NAME 2MM 2R WTB HPI HEADER – SURFACE MOUNT PLATING: MATTE TIN			
		PRODUCT SPEC	—			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC	—			
0 PLC ± — 1 PLC ± 0.35 2 PLC ± 0.30 3 PLC ± 0.15 4 PLC ± — ANGLES ± 2°		—	SIZE A2			
MATERIAL —		FINISH —	CAGE CODE 00779			
		WEIGHT —	DRAWING NO C=2539093			
		CUSTOMER DRAWING	RESTRICTED TO —			
		SCALE 1:1	SHEET 4 OF 4			
			REV A			