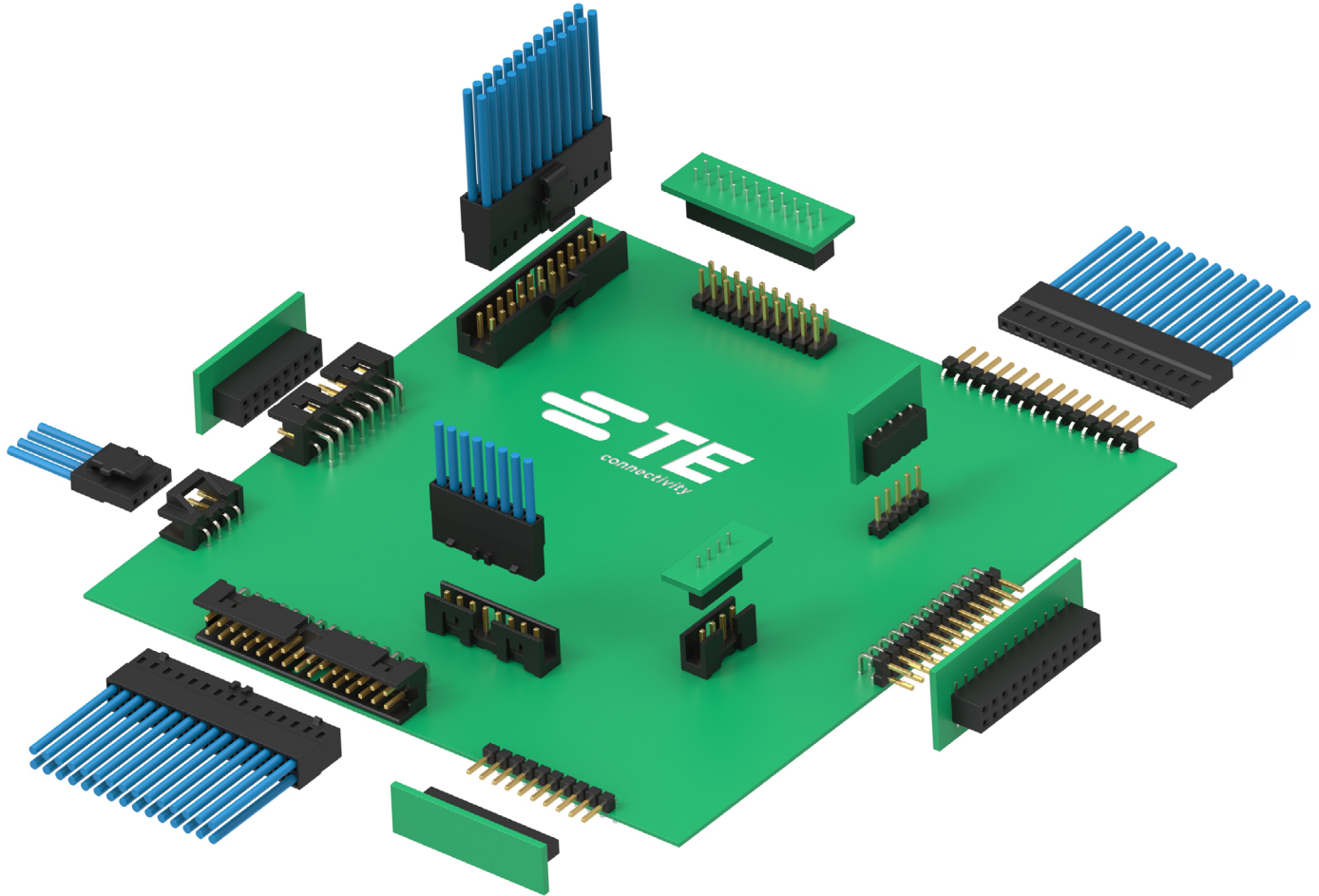




AMPMODU 2 MM INTERCONNECTION SYSTEM

Quick Reference Guide

AMPMODU 2 MM INTERCONNECTION SYSTEM

TE Connectivity (TE)'s AMPMODU 2 mm interconnection system reliably and economically meets the requirements of today's miniature, sophisticated electronics. This system is ideal for space constrained environments and offers a wide portfolio with design features that enable reliable signal transfers in demanding applications.

TE's compact 2 mm design enables space savings, providing designers with greater overall flexibility. The AMPMODU 2 mm system occupies 38% less space on a printed circuit board as compared to traditional 2.54 mm centerline connectors. This connector system is available in both board-to-board and wire-to-board mating options and utilizes a dual-beam contact design to enable 2 points of contact for increased signal reliability.

The AMPMODU 2 mm connection system is available in 4 types of plating options: 30µ" [0.76 µm] gold, 15µ" [0.38 µm] gold, 4µ" [0.1 µm] gold flash, and tin. All 2 mm board-mount connectors are offered in single and double row versions and vertical and horizontal orientations for both headers and receptacles. Surface mount and through-hole mounting options are available with the capability to support reflow solder processes up to 260°C.

Board-mount connectors can be packaged in tape and reel to support automated assembly processes, or in tubes, which may be ideal in manual assembly environments. AMPMODU 2 mm wire-to-board connectors are available without latches, and with detent or positive latches for high-vibration applications that demand more secure electrical connections. Wire-mount receptacles are offered with two options for discrete wire termination – crimp snap-in contacts and insulation displacement contacts (IDC). Additionally, wire termination is easily accomplished with TE-designed application tooling.

The AMPMODU 2 mm interconnection system is the clear choice for demanding Industrial applications, offering a comprehensive, economical, and reliable connector portfolio.

FEATURES

- Centerline: 0.079" [2 mm]
- 0.020" [0.50 mm] square pins for headers
- Dual-beam receptacle contact
- Multiple solder tail lengths for various PCB thicknesses, 0.063" to 0.094" [1.6 mm to 2.4 mm]
- High temperature plastic (LCP) housing
- Board connectors available in tube and tape & reel packaging
- Up to 25 positions per row, single and dual row offering
- Wire termination: crimp and IDC
- Wire size:
 - Crimp contacts: AWG 30 - 24
 - IDC: AWG 30 - 26
- Environmental: UL94V0, low halogen

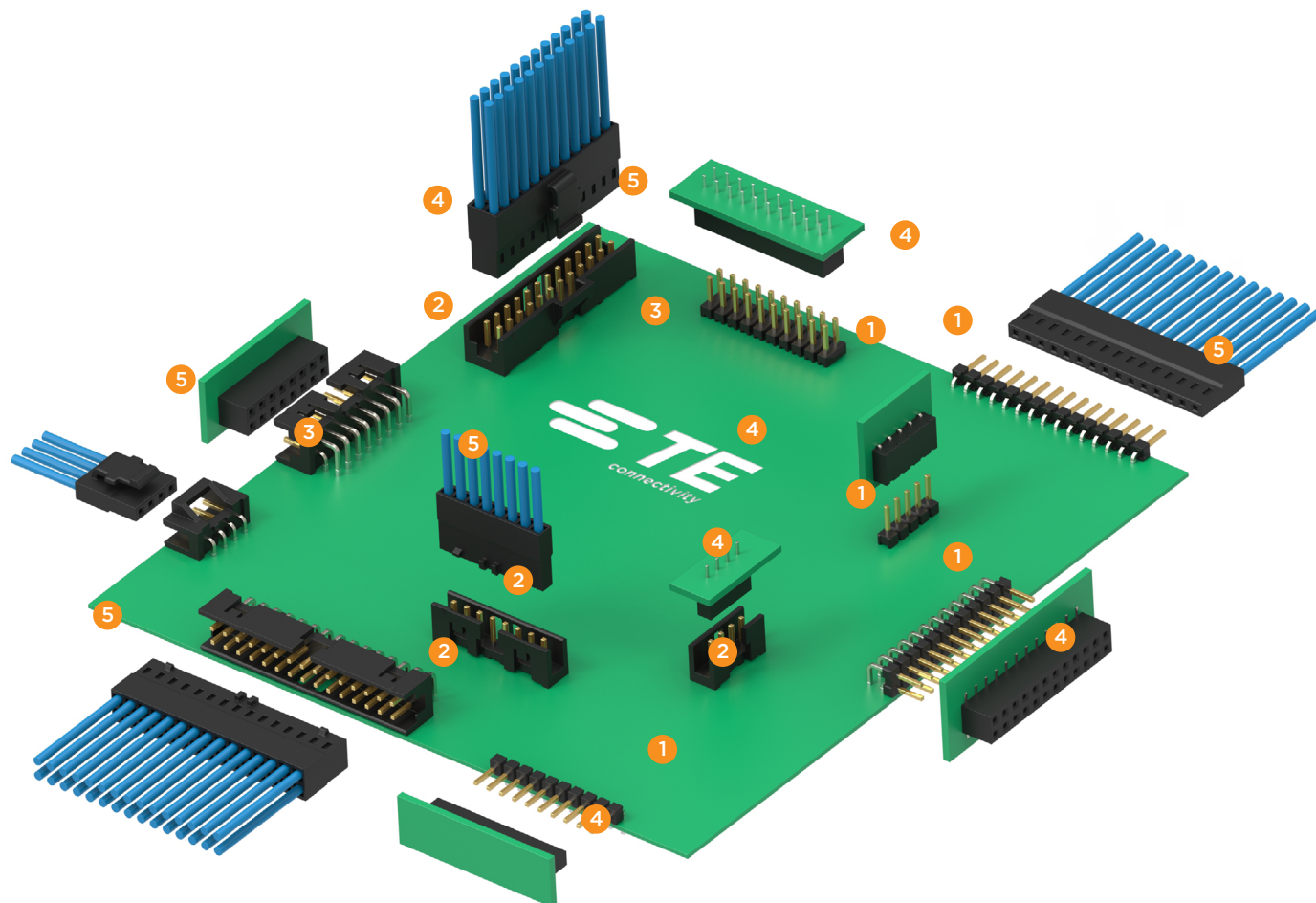
APPLICATIONS

- PLC
- I/O devices
- Servo drives
- Robotics
- Automated guided vehicles
- Material handling equipment
- Industrial controls
- Instrumentation and test equipment
- Building automation devices
- Medical equipment
- Energy storage systems

BENEFITS

- Occupies 38% less space on PCB compared with 0.100" [2.54 mm] centerline
- Two-point electrical stability for reliable signal transfer
- Multiple options for Board-to-Board stacking by various header and receptacle combinations
- Ease of assembly with automated surface-mounting and through-hole reflow manufacturing
- Reliable connection in high vibration environments with detent and positive latching variants
- Ergonomic and easy mating/unmating process with positive latching variant
- Headers are intermateable with other major brand receptacles
- Design flexibility with various crimp terminal options
- Fast termination/installation without the need to strip the wire with IDC wire receptacles
- IDC and crimp receptacles mate with the same headers
- Interchangeable IDC and Crimp Snap-In contacts allow for easy replacement of damaged/faulty contacts

AMPMODU 2 MM INTERCONNECTION SYSTEM



1	BREAKAWAY HEADERS	page 9 - page 11
2	SHROUDED HEADERS W/ DETENT LATCHES	page 12 - page 14
3	SHROUDED HEADERS W/ POSITIVE LATCH	page 15 - page 17
4	BOARD RECEPTACLES	page 18 - page 21
5	CRIMP SNAP-IN RECEPTACLES	page 22 - page 25
	INSULATION DISPLACEMENT CONTACTS (IDC) RECEPTACLES	page 26 - page 29
	2MM HEADERS AND RECEPTACLES ADDITIONAL PARTS	page 30 - page 44

AMPMODU 2 MM INTERCONNECTION SYSTEM

AMPMODU 2 MM INTERCONNECTION SYSTEM PERFORMANCE SPECIFICATIONS AND STANDARDS

MATERIALS

Housing	Liquid Crystal Polymer, UL 94V0, Black
Contact	Phosphor Bronze
Contact Plating	30µ" [0.76 µm] Gold
	15µ" [0.38 µm] Gold
	4µ" [0.1 µm] Gold
	Tin

ELECTRICAL

Voltage Rating	125 Vrms (max.)
Current Rating	2 A (max.)
Operating Temperature	Tin Plating: - 40 to +105°C
	Gold Plating: - 40 to +125°C
Dielectric Withstanding Voltage	650 VAC
Temperature Rise	30°C@1.6A

SPECIFICATIONS AND APPROVALS

Certifications and Approvals	RoHS
	REACH
	cURus
Product Specification	Headers: 108-64040
	Board Receptacles: 108-64040
	Crimp Snap-In Receptacles: 108-64040-1
	IDC Receptacles: 108-64040-2
Application Specification	Headers: 114-64040
	Board Receptacles: 114-32186
	Crimp Snap-In Receptacles: 114-32173
	IDC Receptacles: 114-32175

MECHANICAL

Durability	30µ" [0.76 µm] Gold: 250 cycles
	15µ" [0.38 µm] Gold: 100 cycles
	4µ" [0.1 µm] Gold: 50 cycles
	Tin: 25 cycles
Connector Mating/ Unmating Force	Mating: 2.2 N max.
	Unmating: 0.2 N min.
Contact Retention Force in Housing (Board Connectors)	5 N min.
Contact Retention Force in Housing (Wire Receptacles)	10 N min.
Vibration	No electrical discontinuity greater than 1 microsecond under 10-55-10 Hz traversed in one minute at 1.52 mm amplitude
Shock	No electrical discontinuity greater than 1 microsecond by 50 G acceleration
Latch Durability	25 cycles
Positive Latch Engage/Disengage Force (without Contacts)	Engage: 6 N max.
	Disengage: 20 N min.
Solderability	Reflow Solderable, Capable up to 260°C

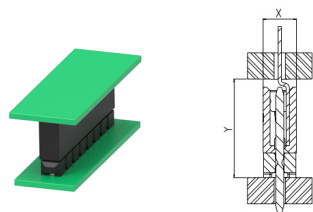
AMPMODU 2 MM INTERCONNECTION SYSTEM

CONFIGURATIONS

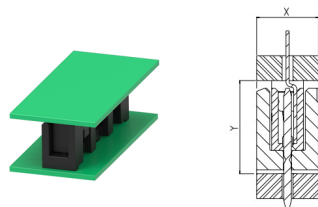
Headers		
A BREAKAWAY VERTICAL TH	B BREAKAWAY VERTICAL SMT	C BREAKAWAY HORIZONTAL TH
D SHROUDED W/ DETENT LATCHES VERTICAL TH	E SHROUDED W/ DETENT LATCHES VERTICAL SMT	F SHROUDED W/ DETENT LATCHES HORIZONTAL TH
G SHROUDED W/ POSITIVE LATCH VERTICAL TH	H SHROUDED W/ POSITIVE LATCH VERTICAL SMT	J SHROUDED W/ POSITIVE LATCH HORIZONTAL TH

Receptacles			
1 BOARD VERTICAL TH	2 BOARD VERTICAL SMT	3 BOARD HORIZONTAL TH	4 BOARD HORIZONTAL SMT
5 WIRE (CRIMP/IDC) STANDARD	6 WIRE (CRIMP/IDC) W/ DETENT LATCHES	7 WIRE (CRIMP/IDC) W/ POSITIVE LATCH	

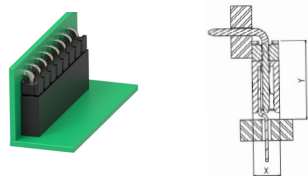
BOARD-TO-BOARD



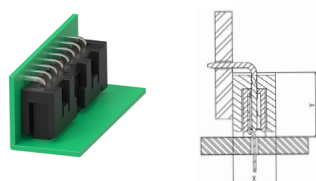
Application		X (Single Row)	X (Double Row)	Y
Parallel boards - vertical board receptacle and vertical shrouded header	A 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.236" [6.00 mm]
	B 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.285" [7.25 mm]
	A 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]
	B 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.293" [7.45 mm]



Application		X (Single Row)	X (Double Row)	Y
Parallel boards - vertical board receptacle and vertical shrouded header	D 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.236" [6.00 mm]
	E 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.285" [7.25 mm]
	D 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.244" [6.20 mm]
	E 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.293" [7.45 mm]



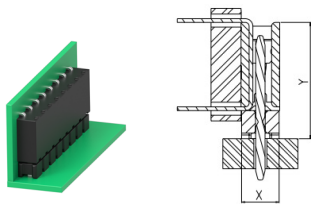
Application		X (Single Row)	X (Double Row)	Y
Perpendicular boards - vertical board receptacle and horizontal breakaway header	C 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.236" [6.00 mm]
	C 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]



Application		X (Single Row)	X (Double Row)	Y
Perpendicular boards - vertical board receptacle and horizontal shrouded header	F 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.236" [6.00 mm]
	F 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.244" [6.20 mm]

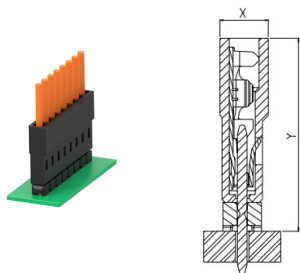
CONFIGURATIONS - CONTINUED

BOARD-TO-BOARD

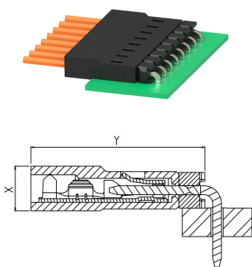


Application		X (Single Row)	X (Double Row)	Y
Perpendicular boards - horizontal board receptacle and vertical breakaway header	A 3	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]
	B 3	0.083" [2.10 mm]	0.161" [4.10 mm]	0.293" [7.45 mm]
	A 4	0.093" [2.35 mm]	0.172" [4.36 mm]	0.244" [6.20 mm]
	B 4	0.093" [2.35 mm]	0.172" [4.36 mm]	0.293" [7.45 mm]

WIRE-TO-BOARD



Application	Row	Crimp		IDC	
Perpendicular to PCB – non-latching solution - breakaway header and standard wire receptacle (no latches)		X	Y	X	Y
 	Single row	0.099” [2.51 mm]	0.394” [10.00 mm]	0.094” [2.4 mm]	0.57” [14.50 mm]
	Double row	0.185” [4.70 mm]	0.394” [10.00 mm]	-	-
 	Single row	0.099” [2.51 mm]	0.443” [11.25 mm]	0.094” [2.4 mm]	0.62” [15.75 mm]
	Double row	0.185” [4.70 mm]	0.443” [11.25 mm]	-	-

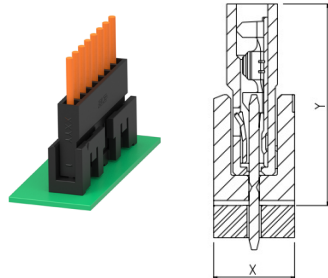


Application	Row	Crimp		IDC	
Parallel to PCB - non-latching solution - breakaway header and standard wire receptacle (no latches)		X	Y	X	Y
	Single row	0.099" [2.51 mm]	0.394" [10.00 mm]	0.094" [2.4 mm]	0.57" [14.50 mm]
	Double row	0.185" [4.70 mm]	0.394" [10.00 mm]	-	-

AMPMODU 2 MM INTERCONNECTION SYSTEM

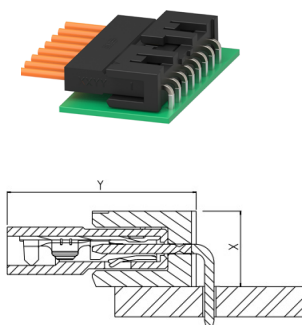
CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



Application	Row	Crimp		IDC	
Perpendicular to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches)		X	Y	X	Y
D 5	Single row	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-
E 5	Single row	0.157" [4.00 mm]	0.443" [11.25 mm]	0.157" [4.00 mm]	0.62" [15.75 mm]
	Double row	0.244" [6.20 mm]	0.443" [11.25 mm]	-	-

Application	Row	Crimp		IDC	
Perpendicular to PCB - detent latching solutions - shrouded header with detent latches and wire receptacle with detent latches		X	Y	X	Y
D 6	Single row	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-
E 6	Single row	0.157" [4.00 mm]	0.443" [11.25 mm]	0.157" [4.00 mm]	0.62" [15.75 mm]
	Double row	0.244" [6.20 mm]	0.443" [11.25 mm]	-	-

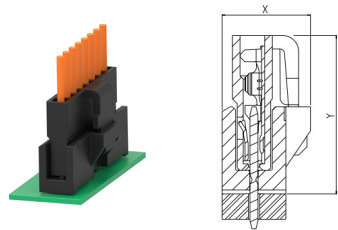


Application	Row	Crimp		IDC	
Parallel to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches)		X	Y	X	Y
F 5	Single row	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-

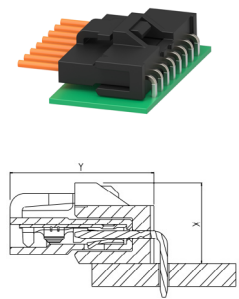
Application	Row	Crimp		IDC	
Parallel to PCB - detent latching solution - shrouded header with detent latches and wire receptacle with detent latches		X	Y	X	Y
F 6	Single row	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-

CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



Application	Row	Crimp		IDC	
Perpendicular to PCB - positive latching solution - shrouded header with positive latch wire and wire receptacle with positive latch		X	Y	X	Y
	Single row	0.218" [5.54 mm]	0.394" [10.00 mm]	0.218" [5.54 mm]	0.57" [14.50 mm]
	Double row	0.305" [7.74 mm]	0.394" [10.00 mm]	-	-
	Single row	0.218" [5.54 mm]	0.443" [11.25 mm]	0.218" [5.54 mm]	0.62" [15.75 mm]
	Double row	0.305" [7.74 mm]	0.443" [11.25 mm]	-	-

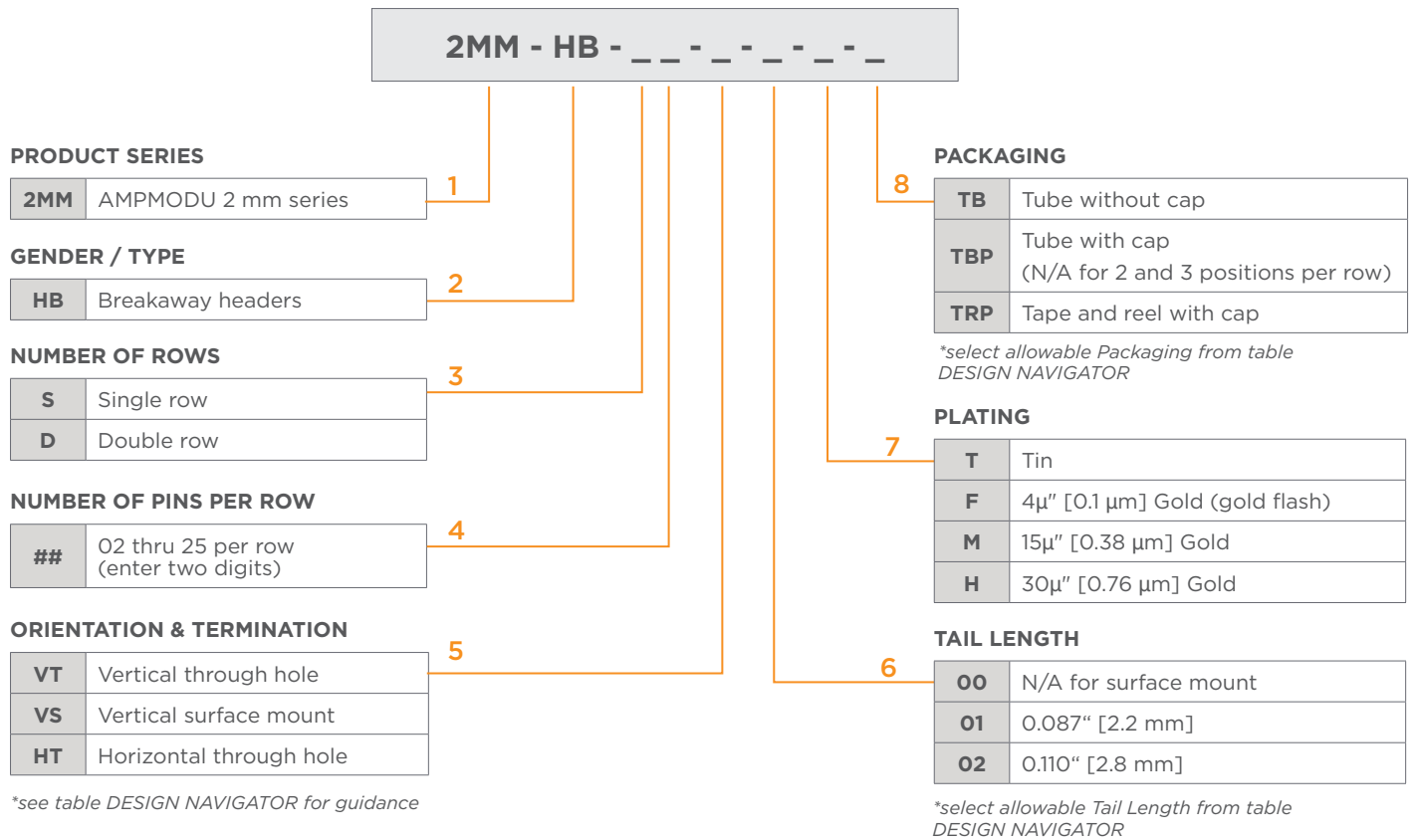


Application	Row	Crimp		IDC	
Parallel to PCB – positive latching solution - shrouded header with positive latch and wire receptacle with positive latch		X	Y	X	Y
	Single row	0.218” [5.54 mm]	0.394” [10.00 mm]	0.218” [5.54 mm]	0.57” [14.50 mm]
	Double row	0.305” [7.74 mm]	0.394” [10.00 mm]	-	-

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, breakaway header, double row, 20 positions (2 x 10), vertical surface mount, tail length: N/A, tin, T&R with cap: **2MM-HB-D10-VS-00-T-TRP**

DESIGN NAVIGATOR

Orientation & Termination		Tail Length		Packaging
VT		01	0.087" [2.2 mm]	TB
				TBP
				TRP
		02	0.110" [2.8 mm]	TB
				TBP
				TRP
VS		00	-	TRP
				TBP
HT		01	0.087" [2.2 mm]	TB
				TBP
				TRP
		02	0.110" [2.8 mm]	TB
				TBP
				TRP

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

SINGLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number			Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	30μ" [0.76μm] Gold		
	2823074	0.087" [2.2mm]	2823651	-	-	Tube w/ cap	3-25
			2MM-HB-SXX-VT-01-T-TBP	-	-		
		0.110" [2.8mm]	2823076	2823080	2823088	Tube w/o cap	2-25
			2MM-HB-SXX-VT-02-T-TB	2MM-HB-SXX-VT-02-F-TB	2MM-HB-SXX-VT-02-H-TB		
Horizontal Through Hole	2823090	0.110" [2.8mm]	-	2823096	2823104	Tube w/o cap	2-25
			-	2MM-HB-SXX-HT-02-F-TB	2MM-HB-SXX-HT-02-H-TB		

BREAKAWAY HEADERS

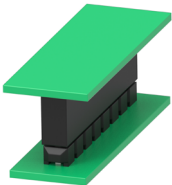
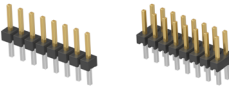
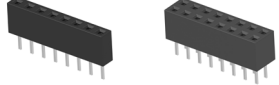
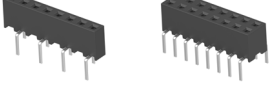
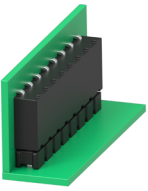
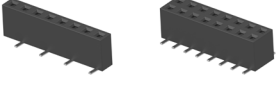
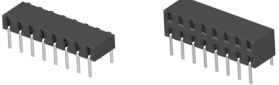
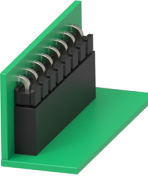
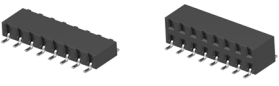
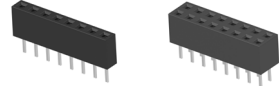
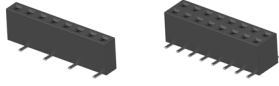
DOUBLE ROW

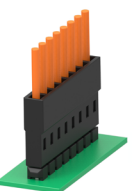
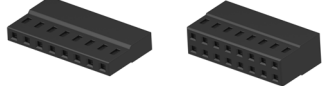
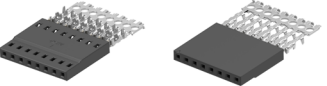
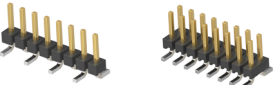
Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number			Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	30μ" [0.76μm] Gold		
Vertical Through Hole	2823110	0.110" [2.8mm]	2823112	2823116	2823124	Tube w/o cap	4-50
			2MM-HB-DXX-VT-02-T-TB	2MM-HB-DXX-VT-02-F-TB	2MM-HB-DXX-VT-02-H-TB		
Vertical Through Hole	2823126	0.110" [2.8mm]	-	2823132	2823140	Tube w/o cap	4-50
			-	2MM-HB-DXX-HT-02-F-TB	2MM-HB-DXX-HT-02-H-TB		
Vertical Surface Mount	2823142	-	-	-	2823145	T&R w/ cap	4-50
			-	-	2MM-HB-DXX-VS-00-H-TRP		

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

MATEABLE PARTS

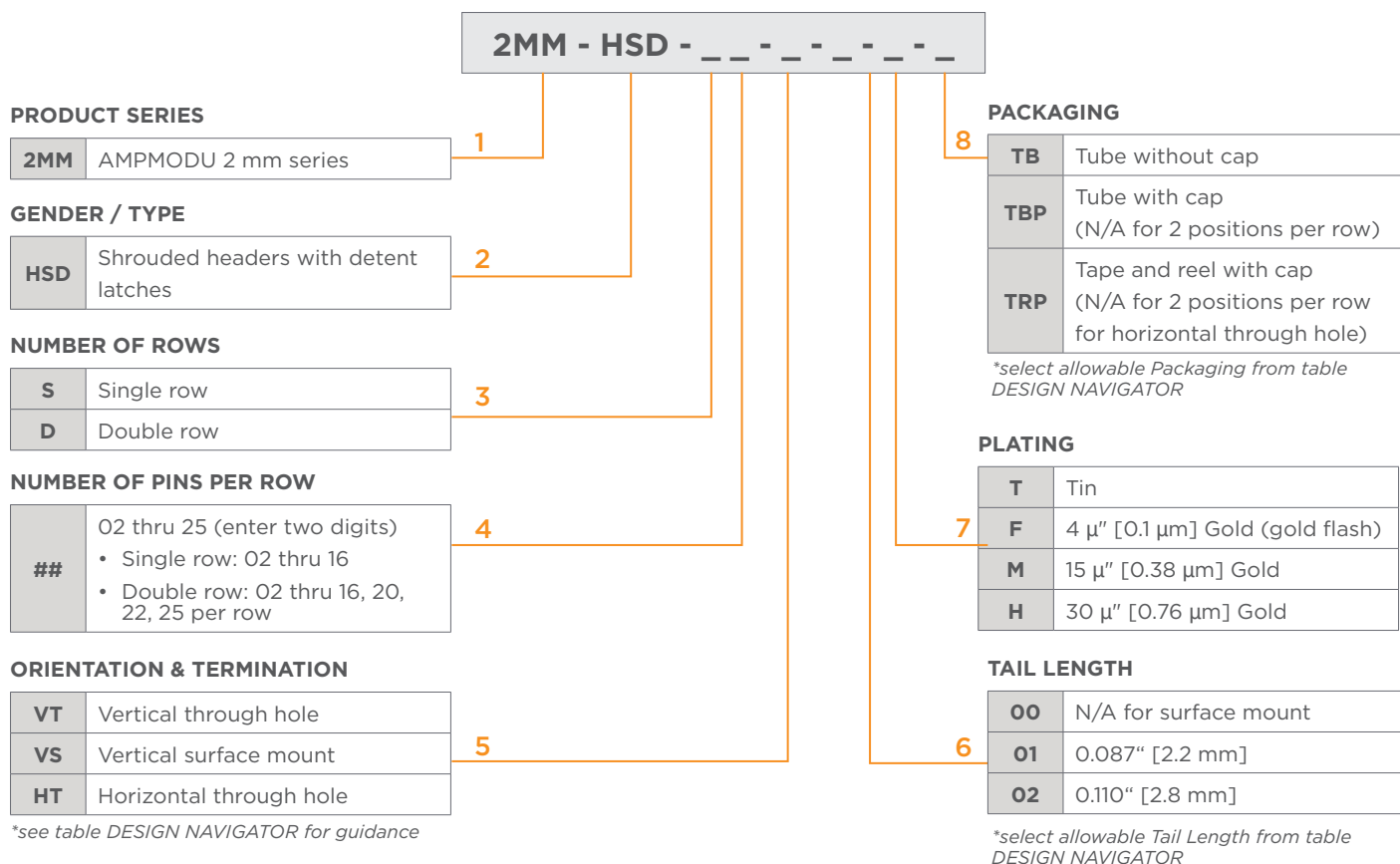
Breakaway Headers	B-t-B Orientation	Mateable Receptacles	
Vertical Orientation	Parallel 	Vertical Board Receptacles	page 13-page 14
2MM - HB - __ - VT 		2MM - R - __ - VT 	
2MM - HB - __ - VS 		2MM - R - __ - VTR 	
	Perpendicular 	2MM - R - __ - VS 	
		Horizontal Board Receptacles	page 13-page 14
		2MM - R - __ - HT 	
Horizontal Orientation	Perpendicular 	2MM - R - __ - HS 	
2MM - HB - __ - HT 		Vertical Board Receptacles	page 13-page 14
		2MM - R - __ - VT 	
		2MM - R - __ - VTR 	
		2MM - R - __ - VS 	

Breakaway Headers	W-t-B Orientation	Mateable Receptacles			
Vertical Orientation		Crimp Receptacles	page 15- page 16	IDC Receptacles <i>Single row Only</i>	page 17- page 19
2MM - HB - __ - VT 		2MM - RC - __ 		2MM - RD- __ 	
2MM - HB - __ - VS 		Standard (No Latches)		Standard (No Latches)	
Horizontal Orientation					
2MM - HB - __ - HT 					

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

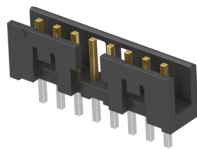
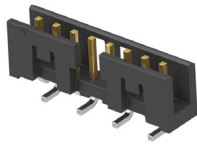
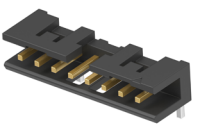
SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8), horizontal through hole, 2.8 mm tail length, 15μ" [0.38μm] gold, tube without cap: **2MM-HSD-S08-HT-02-M-TB**

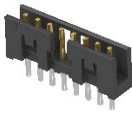
DESIGN NAVIGATOR

Orientation & Termination		Tail Length		Packaging
VT		01	0.087" [2.2 mm]	TB
				TBP
				TRP
		02	0.110" [2.8 mm]	TB
				TBP
				TRP
VS		00	-	TRP
				TBP
HT		01	0.087" [2.2 mm]	TB
				TBP
				TRP
		02	0.110" [2.8 mm]	TB
				TBP
				TRP

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

SINGLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number			Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	30μ" [0.76μm] Gold		
Vertical Through Hole		0.087" [2.2mm]	2823372	-	-	Tube w/o cap	2-16
			2MM-HSD-SXX-VT-01-T-TB	-	-		
		0.110" [2.8mm]	2823373	2823376	2823382	Tube w/o cap	2-16
			2MM-HSD-SXX-VT-02-T-TB	2MM-HSD-SXX-VT-02-F-TB	2MM-HSD-SXX-VT-02-H-TB		
			-	-	2823850	Tube w/ cap	3-16
			-	-	2MM-HSD-SXX-VT-02-H-TBP		
Horizontal Through Hole		0.087" [2.2mm]	2823384	-	-	Tube w/o cap	2-16
			2MM-HSD-SXX-HT-01-T-TB	-	-		
		0.110" [2.8mm]	2823385	2823388	2823394	Tube w/o cap	2-16
			2MM-HSD-SXX-HT-02-T-TB	2MM-HSD-SXX-HT-02-F-TB	2MM-HSD-SXX-HT-02-H-TB		

SHROUDED HEADERS - WITH DETENT LATCHES

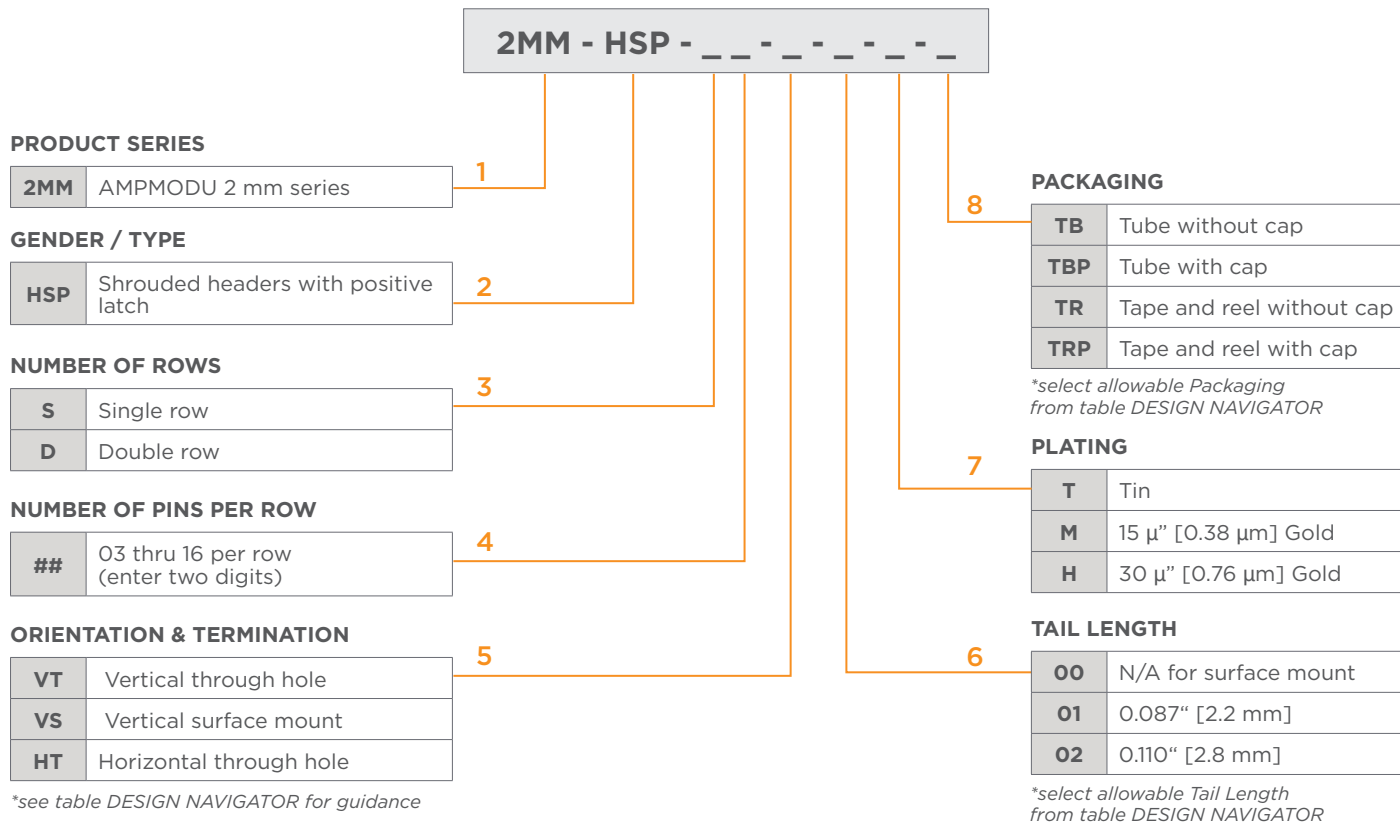
DOUBLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number				Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	15μ" [0.38μm] Gold	30μ" [0.76μm] Gold		
Vertical Through Hole		0.110" [2.8mm]	2823336	2823339	2823342	2823345	Tube w/o cap	4-32, 40, 44, 50
			2MM-HSD-DXX-VT-02-T-TB	2MM-HSD-DXX-VT-02-F-TB	2MM-HSD-DXX-VT-02-M-TB	2MM-HSD-DXX-VT-02-H-TB		
			-	-	2823885	-	Tube w/ cap	6-32, 40, 44, 50
			-	-	2MM-HSD-DXX-VT-02-M-TBP	-		
Horizontal Through Hole		0.110" [2.8mm]	2823351	2823354	-	2823360	Tube w/o cap	4-32, 40, 44, 50
			2MM-HSD-DXX-HT-02-T-TB	2MM-HSD-DXX-HT-02-F-TB	-	2MM-HSD-DXX-HT-02-H-TB		

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with positive latch, double row, 16 positions (2 x 8), vertical through hole, 2.2 mm tail length, 30μ" [0.76μm] gold, tube without cap:
2MM-HSP-D08-VT-01-H-TB

DESIGN NAVIGATOR

Orientation & Termination			Tail Length	Packaging
VT			01 0.087" [2.2 mm]	TB
				TBP
				TRP
			02 0.110" [2.8 mm]	TB
VS			00 -	TBP
				TRP
			01 0.087" [2.2 mm]	TB
				TR
HT			02 0.110" [2.8 mm]	TB
				TR
			01 0.087" [2.2 mm]	TB
				TR

AMPMODU 2 MM INTERCONNECTION SYSTEM

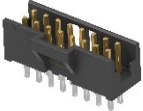
SHROUDED HEADERS - WITH POSITIVE LATCH

SINGLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number		Packaging	Available Positions
			Tin	30µ" [0.76µm] Gold		
Vertical Through Hole		0.110" [2.8mm]	2823400	2823402	Tube w/o cap	3-16
			2MM-HSP-SXX-VT-02-T-TB	2MM-HSP-SXX-VT-02-H-TB		
Horizontal Through Hole		0.110" [2.8mm]	2823403	2823405	Tube w/o cap	3-16
			2MM-HSP-SXX-HT-02-T-TB	2MM-HSP-SXX-HT-02-H-TB		
			2823544	2823546	T&R w/o cap	3-16
			2MM-HSP-SXX-HT-02-T-TR	2MM-HSP-SXX-HT-02-H-TR		

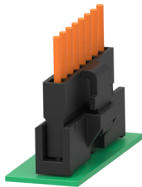
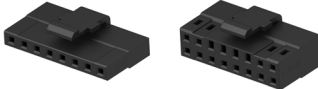
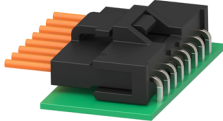
SHROUDED HEADERS - WITH POSITIVE LATCH

DOUBLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number		Packaging	Available Positions
			Tin	30µ" [0.76µm] Gold		
Vertical Through Hole		0.110" [2.8mm]	2823406	2823408	Tube w/o cap	6-32
			2MM-HSP-DXX-VT-02-T-TB	2MM-HSP-DXX-VT-02-H-TB		
			-	2466315	Tube w/ cap	6-32
			-	2MM-HSP-D08-VT-02-K-TRP		
Horizontal Through Hole		0.110" [2.8mm]	2823409	2823411	Tube w/o cap	6-32
			2MM-HSP-DXX-HT-02-T-TB	2MM-HSP-DXX-HT-02-H-TB		
			2823550	2823552	T&R w/o cap	6-32
			2MM-HSP-DXX-HT-02-T-TR	2MM-HSP-DXX-HT-02-H-TR		

SHROUDED HEADERS - WITH POSITIVE LATCH

MATEABLE PARTS

Shrouded Headers w/ Positive Latch		W-t-B Orientation	Mateable Receptacles			
Vertical Orientation			Crimp Receptacles	page 15- page 16	IDC Receptacles <i>Single row Only</i>	page 17- page 19
2MM - HSP - __ - VT			 2MM - RCP - __ W/ Positive Latch			
2MM - HSP - __ - VS						
Horizontal Orientation			 2MM - RDP - __ W/ Positive Latch			
2MM - HSP - __ - HT						

AMPMODU 2 MM INTERCONNECTION SYSTEM

BOARD RECEPTACLES

SMART PART NUMBER DEFINITION

PRODUCT SERIES

2MM	AMPMODU 2 mm series
------------	---------------------

GENDER / TYPE

R	Receptacle
----------	------------

NUMBER OF ROWS

S	Single row
D	Double row

NUMBER OF POSITIONS PER ROW

##	02 thru 25 per row (enter two digits)
-----------	--

ORIENTATION & TERMINATION

VT	Vertical through hole
VTR	Vertical through hole outrigger
VS	Vertical surface mount
HT	Horizontal through hole
HS	Horizontal surface mount

*see table DESIGN NAVIGATOR for guidance

SMART PN EXAMPLES

- AMPMODU 2 mm, board receptacle, double row, 8 positions (2 x 4), horizontal SMT, tail length: N/A, gold flash, T&R without cap: **2MM-R-D04-HS-00-F-TR**

2MM - R - _ _ - _ - _ - _

PACKAGING

TB	Tube without cap
TBP	Tube with cap
TR	Tape and reel without cap
TRP	Tape and reel with cap

*select allowable Packaging from table DESIGN NAVIGATOR

PLATING

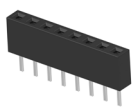
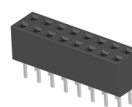
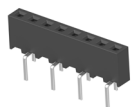
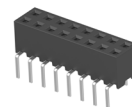
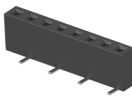
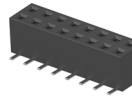
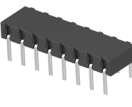
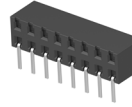
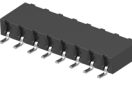
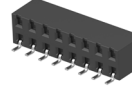
T	Tin
F	4μ" [0.1 μm] Gold (Gold flash)
M	15μ" [0.38 μm] Gold
H	30μ" [0.76 μm] Gold

TAIL LENGTH

00	N/A for surface mount
01	0.079 - 0.091" [2.0 - 2.3 mm]
02	0.106 - 0.110" [2.7 - 2.8 mm]
03	0.126 - 0.134" [3.2 - 3.4 mm]

*select allowable Tail Length from table DESIGN NAVIGATOR

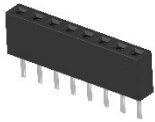
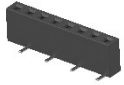
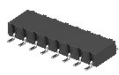
DESIGN NAVIGATOR

Orientation & Termination		Tail Length		Packaging
VT	 	01	0.079" [2.0 mm]	TRP
		02	0.106" [2.7 mm]	TBP
				TRP
				TBP
				TB
03	0.126" [3.2 mm]	TB		
VTR	 	01	0.091" [2.3 mm]	TRP
		02	0.110" [2.8 mm]	TBP
				TRP
				TB
				TBP
03	0.134" [3.4 mm]	TB		
VS	 	00	-	TRP
				TBP
HT	 	01	0.083" [2.1 mm]	TR
		02	0.110" [2.8 mm]	TB
				TR
				TB
03	0.134" [3.4 mm]	TB		
HS	 	00	-	TB
				TR

AMPMODU 2 MM INTERCONNECTION SYSTEM

BOARD RECEPTACLES

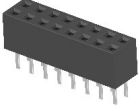
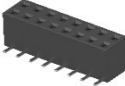
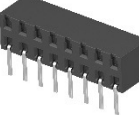
SINGLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number			Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	30μ" [0.76μm] Gold		
Vertical Through Hole		0.079" [2.0mm]	2307764	2307767	2307773	T&R w/ cap	2-25
			2MM-R-SXX-VT-01-T-TRP	2MM-R-SXX-VT-01-F-TRP	2MM-R-SXX-VT-01-H-TRP		
			2314867	2314868	2314870		
			2MM-R-SXX-VT-01-T-TBP	2MM-R-SXX-VT-01-F-TBP	2MM-R-SXX-VT-01-H-TBP	Tube w/ cap	
		0.106" [2.7mm]	2307765	2307768	2307774	T&R w/ cap	
			2MM-R-SXX-VT-02-T-TRP	2MM-R-SXX-VT-02-F-TRP	2MM-R-SXX-VT-02-H-TRP		
			2314879	2314880	2314882		
			2MM-R-SXX-VT-02-T-TBP	2MM-R-SXX-VT-02-F-TBP	2MM-R-SXX-VT-02-H-TBP	Tube w/ cap	
			2314875	2314876	2314878		
			2MM-R-SXX-VT-02-T-TB	2MM-R-SXX-VT-03-F-TB	2MM-R-SXX-VT-02-H-TB	Tube w/o cap	
		0.126" [3.2mm]	2307766	2307769	2307775		
			2MM-R-SXX-VT-03-T-TB	2MM-R-SXX-VT-03-F-TB	2MM-R-SXX-VT-03-H-TB	Tube w/o cap	
Vertical Surface Mount		-	2307812	2307813	2307815	T&R w/ cap	2-25
			2MM-R-SXX-VS-00-T-TRP	2MM-R-SXX-VS-00-F-TRP	2MM-R-SXX-VS-00-H-TRP		
			2314847	2314848	2314850		
			2MM-R-SXX-VS-00-T-TBP	2MM-R-SXX-VS-00-F-TBP	2MM-R-SXX-VS-00-H-TBP	Tube w/ cap	
Horizontal Through Hole		0.083" [2.1mm]	2307700	-	-	T&R w/o cap	2-25
			2MM-R-SXX-HT-01-T-TR	-	-		
			2314927	2314928	2314930		
			2MM-R-SXX-HT-01-T-TB	2MM-R-SXX-HT-01-F-TB	2MM-R-SXX-HT-01-H-TB	Tube w/ cap	
		0.110" [2.8mm]	2314935	2314936	2314938		
			2MM-R-SXX-HT-02-T-TR	2MM-R-SXX-HT-02-F-TR	2MM-R-SXX-HT-02-H-TR	T&R w/o cap	
			2307701	2307704	2307710		
			2MM-R-SXX-HT-02-T-TB	2MM-R-SXX-HT-02-F-TB	2MM-R-SXX-HT-02-H-TB	Tube w/ cap	
Horizontal Surface Mount		-	2307724	2307725	2307727		2-25
			2MM-R-SXX-HS-00-T-TR	2MM-R-SXX-HS-00-F-TR	2MM-R-SXX-HS-00-H-TR	T&R w/ cap	

AMPMODU 2 MM INTERCONNECTION SYSTEM

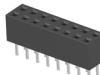
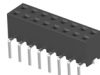
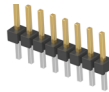
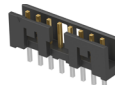
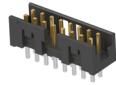
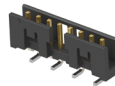
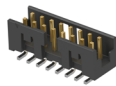
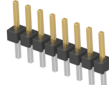
BOARD RECEPTACLES

DOUBLE ROW

Product Type	Drawing Number	Solder Lead Length	Base Number / Smart Part Number			Packaging	Available Positions
			Tin	4μ" [0.1μm] Gold	30μ" [0.76μm] Gold		
Vertical Through Hole		0.079" [2.0mm]	2307776	2307779	2307785	T&R w/ cap	4-50
			2MM-R-DXX-VT-01-T-TRP	2MM-R-DXX-VT-01-F-TRP	2MM-R-DXX-VT-01-H-TRP		
			2314811	2314812	2314814		
			2MM-R-DXX-VT-01-T-TBP	2MM-R-DXX-VT-01-F-TBP	2MM-R-DXX-VT-01-H-TBP	Tube w/ cap	
		0.106" [2.7mm]	2307777	2307780	2307786	T&R w/ cap	
			2MM-R-DXX-VT-02-T-TRP	2MM-R-DXX-VT-02-F-TRP	2MM-R-DXX-VT-02-H-TRP		
			2314823	2314824	2314826		
			2MM-R-DXX-VT-02-T-TBP	2MM-R-DXX-VT-02-F-TBP	2MM-R-DXX-VT-02-H-TBP	Tube w/ cap	
			2314819	2314820	2314822		
			2MM-R-DXX-VT-02-T-TB	2MM-R-DXX-VT-02-F-TB	2MM-R-DXX-VT-02-H-TB	Tube w/o cap	
		0.126" [3.2mm]	2307778	2307781	2307787		
			2MM-R-DXX-VT-03-T-TB	2MM-R-DXX-VT-03-F-TB	2MM-R-DXX-VT-03-H-TB	Tube w/o cap	
Vertical Surface Mount		-	2307816	2307817	2307819	T&R w/ cap	4-50
			2MM-R-DXX-VS-00-T-TRP	2MM-R-DXX-VS-00-F-TRP	2MM-R-DXX-VS-00-H-TRP		
			2314843	2314844	2314846		
			2MM-R-DXX-VS-00-T-TBP	2MM-R-DXX-VS-00-F-TBP	2MM-R-DXX-VS-00-H-TBP	Tube w/ cap	
Horizontal Through Hole		0.083" [2.1mm]	-	-	2307721	T&R w/o cap	4-50
			-	-	2MM-R-DXX-HT-01-H-TR		
			2314915	2314916	2314918		
			2MM-R-DXX-HT-01-T-TB	2MM-R-DXX-HT-01-F-TB	2MM-R-DXX-HT-01-H-TB	Tube w/o cap	
		0.110" [2.8mm]	2314923	2314924	2314926		
			2MM-R-DXX-HT-02-T-TR	2MM-R-DXX-HT-02-F-TR	2MM-R-DXX-HT-02-H-TR	T&R w/o cap	
			2307713	2307716	2307722		
			2MM-R-DXX-HT-02-T-TB	2MM-R-DXX-HT-02-F-TB	2MM-R-DXX-HT-02-H-TB	Tube w/o cap	
		0.134" [3.4mm]	-	2307717	-		
			-	2MM-R-DXX-HT-03-F-TB	-	Tube w/o cap	
Horizontal Surface Mount		-	2307728	2307729	2307731	T&R w/o cap	4-50
			2MM-R-DXX-HS-00-T-TR	2MM-R-DXX-HS-00-F-TR	2MM-R-DXX-HS-00-H-TR		

BOARD RECEPTACLES

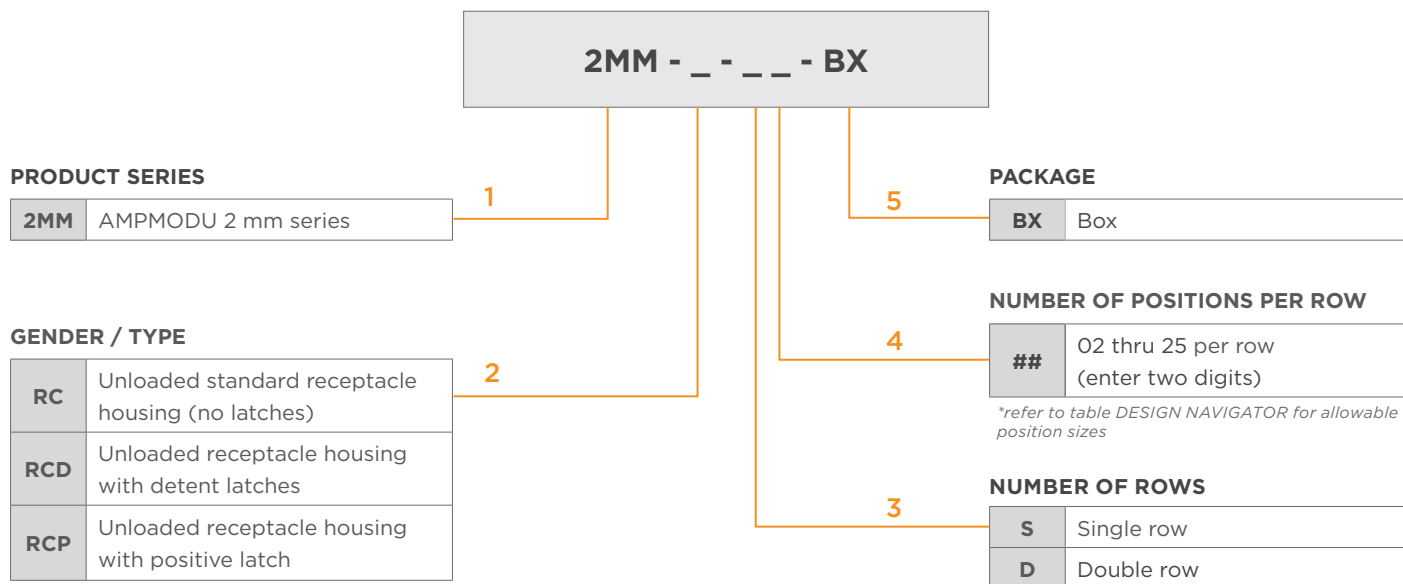
MATEABLE PARTS

Board Receptacles	B-t-B Orientation	Mateable Headers		
Vertical Orientation	Parallel	Vertical Breakaway Headers	page 9-page 10	
2MM - R - __ - VT   2MM - R - __ - VTR   2MM - R - __ - VS  		2MM - HB - __ - VT	 	
		2MM - HB - __ - VS	 	
		Vertical Shrouded Headers w/ Detent Latches	page 11	
	2MM - HSD - __ - VT	 		
	2MM - HSD - __ - VS	 		
	Perpendicular	Horizontal Breakaway Headers	page 9-page 10	
	Perpendicular	2MM - HB - __ - HT	 	
		Horizontal Shrouded Headers w/ Detent Latches	Page 11	
	Horizontal Orientation	Perpendicular	Vertical Breakaway Headers	page 9-page 10
			2MM - HB - __ - VT	 
2MM - HB - __ - VS			 	

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

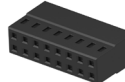
SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle with detent latches, double row, 16 positions (2 x 8), box: **2MM-RCD-D08-BX**

DESIGN NAVIGATOR

Housing Style	Number of Rows		Number of Positions per Row	Packaging Method
Standard (no latches)	Single row		02 thru 25	Box
	Double row		02 thru 25 per row	
With detent latches	Single row		07 thru 16	
	Double row		07 thru 16, 20, 22, 25 per row	
With positive latch	Single row		03 thru 16	
	Double row		03 thru 16 per row	

* Tube packaging is available upon request.

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

RECEPTACLE CONTACT



2MM - RT - _ - _ - _

PRODUCT SERIES

2MM	AMPMODU 2 mm series
-----	---------------------

GENDER / TYPE

RT	Receptacle crimp contact
----	--------------------------

WIRE SIZE

S	AWG 30-28 [0.05 - 0.08 mm ²]
M	AWG 28-24 [0.08 - 0.22 mm ²]

PACKAGING

ST	Strip form (30K pcs/reel)
LP	Loose piece

PLATING

T	Tin
F	4 μ" [0.1 μm] gold (gold flash)
M	15 μ" [0.38 μm] gold
H	30 μ" [0.76 μm] gold

SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle contact, AWG 30 - 28, tin, 30kpcs/reel: **2MM-RT-S-T-ST**

APPLICATION TOOLING

Tooling	Images	Contact Package	Contact AWG 30-28	Contact AWG 28-24
Hand tool		Loose Piece (LP)	<u>2326270-1</u>	<u>2326267-1</u>
Ocean applicator		30k pcs per/reel (ST)	Upon request	Upon request
Extraction tool		<u>9-1579028-8</u> <i>Suitable for all receptacles – to disengage locking lance from front window.</i>		
		<u>843477-3</u> <i>Suitable for standard and detent latch receptacles only – to disengage locking lance from side, top or bottom windows.</i>		

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

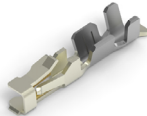
SINGLE ROW

Product Type	Drawing Number	Base Number	Available Positions
Standard (no latches)	2316102	2316102	2-25
		2MM-RC-SXX-BX	
With detent latches	2316103	2316103	7-16
		2MM-RCD-SXX-BX	
With positive latch	2316104	2316104	3-16
		2MM-RCP-SXX-BX	

DOUBLE ROW

Product Type	Drawing Number	Base Number	Available Positions
Standard (no latches)	2316108	2316108	4-50
		2MM-RC-DXX-BX	
With detent latches	2316109	2316109	14-32, 34, 40, 44, 50
		2MM-RCD-DXX-BX	
With positive latch	2316110	2316110	6-32
		2MM-RCP-DXX-BX	

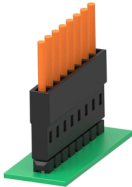
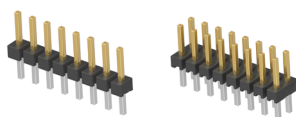
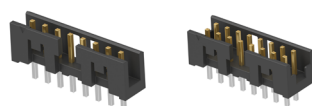
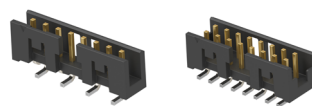
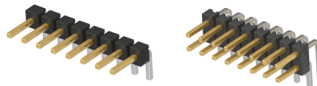
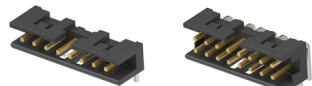
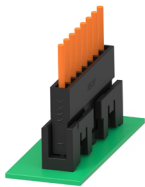
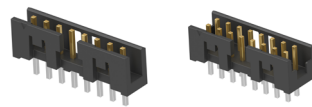
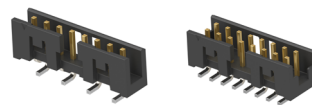
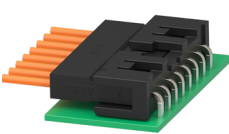
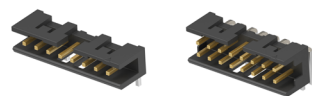
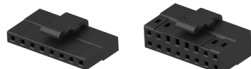
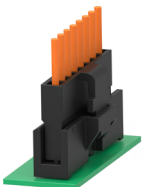
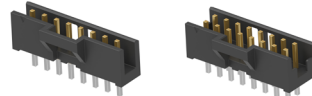
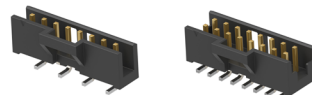
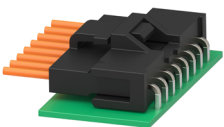
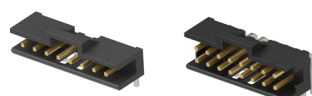
RECEPTACLE CONTACTS

Wire Size	Product Image	Drawing Number	Plating	Packaging Method	
				30Kpc Reel	Loose Piece
AWG 28-24 [0.08 - 0.22 mm ²]		2316113	Tin	2-2316113-2	2-2316113-3
				2MM-RT-M-T-ST	2MM-RT-M-T-LP
			4μ" [0.1μm] Gold	3-2316113-3	3-2316113-4
				2MM-RT-M-F-ST	2MM-RT-M-F-LP
			30μ" [0.76μm] Gold	5-2316113-5	5-2316113-6
				2MM-RT-M-H-ST	2MM-RT-M-H-LP
AWG 30-28 [0.05 - 0.08 mm ²]		2316114	Tin	2-2316114-2	2-2316114-3
				2MM-RT-S-T-ST	2MM-RT-S-T-LP
			4μ" [0.1μm] Gold	3-2316114-3	3-2316114-4
				2MM-RT-S-F-ST	2MM-RT-S-F-LP
			30μ" [0.76μm] Gold	5-2316114-5	5-2316114-6
				2MM-RT-S-H-ST	2MM-RT-S-H-LP

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

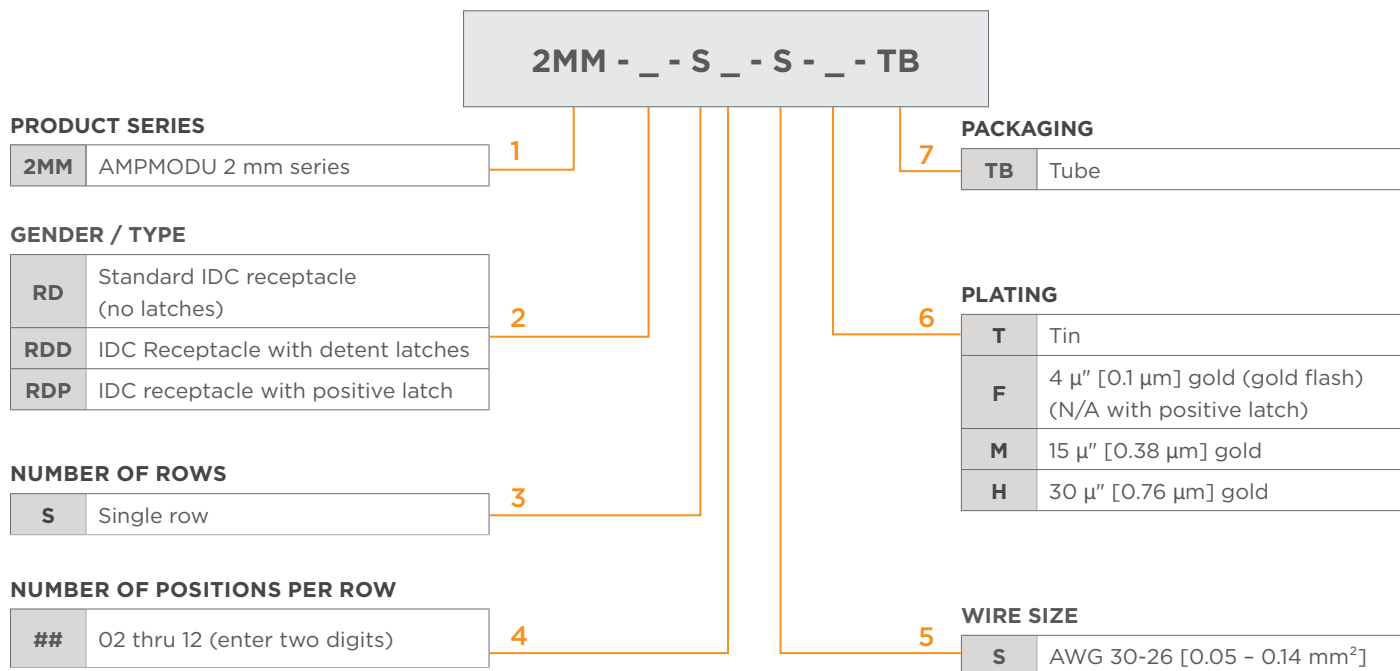
MATEABLE PARTS

Wire Receptacles	W-t-B Orientation	Mateable Headers			
Standard (No Latches)		Vertical Breakaway Headers	page 9- page 10	Vertical Shrouded Headers w/ Detent Latches	page 11
2MM - RC - __ 		2MM - HB - __ - VT		2MM - HSD - __ - VT	
		2MM - HB - __ - VS		2MM - HSD - __ - VS	
		Horizontal Breakaway Headers	page 9- page 10	Horizontal Shrouded Headers w/ Detent Latches	page 11
		2MM - HB - __ - HT		2MM - HSD - __ - HT	
w/ Detent Latches		Vertical Shrouded Headers w/ Detent Latches			page 11
2MM - RCD - __ 		2MM - HSD - __ - VT			
		2MM - HSD - __ - VS			
		Horizontal Shrouded Headers w/ Detent Latches			page 11
		2MM - HSD - __ - HT			
w/ Positive Latch		Vertical Shrouded Headers w/ Positive Latch			page 12
2MM - RCP - __ 		2MM - HSP - __ - VT			
		2MM - HSP - __ - VS			
		Horizontal Shrouded Headers w/ Positive Latch			page 12
		2MM - HSP - __ - HT			

AMPMODU 2 MM INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

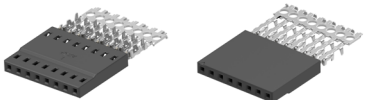
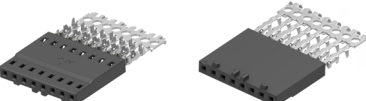
SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, IDC receptacle with positive latch, single row, 7 positions (1 x 7), AWG 30 - 26, 30μ" [0.76 μm] gold, tube: **2MM-RDP-S07-S-H-TB**

RECEPTACLE HOUSINGS

Type	Images	Wire size	Plating	Number of Positions
Standard (no latches)		AWG 30-26 [0.05 - 0.14 mm²]	30 μ" [0.76 μm] gold	02 thru 12
			15 μ" [0.38 μm] gold	
			4 μ" [0.1 μm] gold	
			Tin	
With detent latches			30 μ" [0.76 μm] gold	07 thru 12
			15 μ" [0.38 μm] gold	
			4 μ" [0.1 μm] gold	
			Tin	
With positive latch			30 μ" [0.76 μm] gold	03 thru 12
			15 μ" [0.38 μm] gold	
			Tin	

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

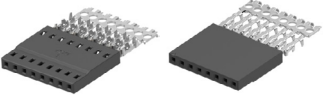
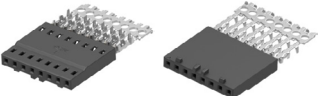
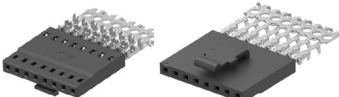
APPLICATION TOOLING

Tooling	Images	TE Part Number
Terminating head*		<u>2326300-1</u>
Pistol grip manual handle*		<u>58074-1</u>
Pneumatic handle*		<u>58075-1</u>
Extraction tool		<u>9-1579028-8</u> <i>Suitable for all receptacles - to disengage locking lance from front window.</i>
		<u>843477-3</u> <i>Suitable for standard and detent latch receptacles only - to disengage locking lance from side, top or bottom windows.</i>

*Terminating head needs to be used with the manual or pneumatic handle.

AMPMODU 2 MM INTERCONNECTION SYSTEM

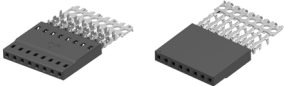
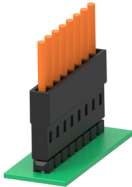
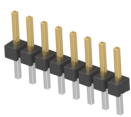
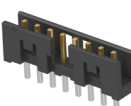
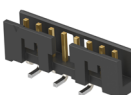
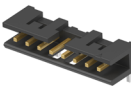
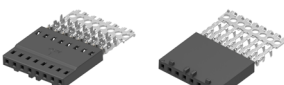
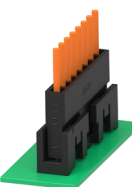
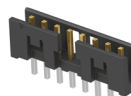
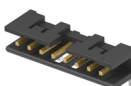
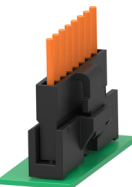
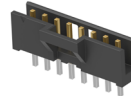
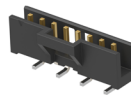
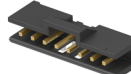
INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

Product Type	Drawing Number	Wire Size	Plating	Base Number	Available Positions
Standard (no latches) 	2317222	AWG 30-26 [0.05 – 0.14 mm ²]	30μ" [0.76μm] Gold	2317206 2MM-RD-SXX-S-H-TB	2, 3, 4, 5, 6 7, 8, 9, 10, 11, 12
			4μ" [0.1μm] Gold	2317204 2MM-RD-SXX-S-F-TB	
			Tin	2317222	
				2MM-RD-SXX-S-T-TB	
With detent latches 	2317223	AWG 30-26 [0.05 – 0.14 mm ²]	30μ" [0.76μm] Gold	2317209 2MM-RDD-SXX-S-H-TB	7, 8, 9, 10, 11, 12
			4μ" [0.1μm] Gold	2317207 2MM-RDD-SXX-S-F-TB	
			Tin	2317223	
				2MM-RDD-SXX-S-T-TB	
With positive latch 	2317224	AWG 30-26 [0.05 – 0.14 mm ²]	30μ" [0.76μm] Gold	2317212 2MM-RDP-SXX-S-H-TB	3, 4, 5, 6 7, 8, 9, 10, 11, 12
			4μ" [0.1μm] Gold	Up on request Up on request	
			Tin	2317224	
				2MM-RDP-SXX-S-T-TB	

AMPMODU 2 MM INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

MATEABLE PARTS

Wire Receptacles	W-t-B Orientation	Mateable Headers			
Standard (No Latches)		Vertical Breakaway Headers	page 9- page 10	Vertical Shrouded Headers w/ Detent Latches	page 10
2MM - RD - __ 		2MM - HB - __ - VT		2MM - HSD - __ - VT	
		2MM - HB - __ - VS		2MM - HSD - __ - VS	
		Horizontal Breakaway Headers	page 9- page 10	Horizontal Shrouded Headers w/ Detent Latches	page 10
		2MM - HB - __ - HT		2MM - HSD - __ - HT	
w/ Detent Latches		Vertical Shrouded Headers w/ Detent Latches			page 10
2MM - RDD - __ 		2MM - HSD - __ - VT			
		2MM - HSD - __ - VS			
		Horizontal Shrouded Headers w/ Detent Latches			page 10
		2MM - HSD - __ - HT			
w/ Positive Latch		Vertical Shrouded Headers w/ Positive Latch			page 12
2MM - RDP - __ 		2MM - HSP - __ - VT			
		2MM - HSP - __ - VS			
		Horizontal Shrouded Headers w/ Positive Latch			page 12
		2MM - HSP - __ - HT			

AMPMODU Interconnection System

2MM HEADERS AND RECEPTACLES ADDITIONAL PART NUMBERS

AMPMODU 2MM CONNECTORS (BOARD TO BOARD)

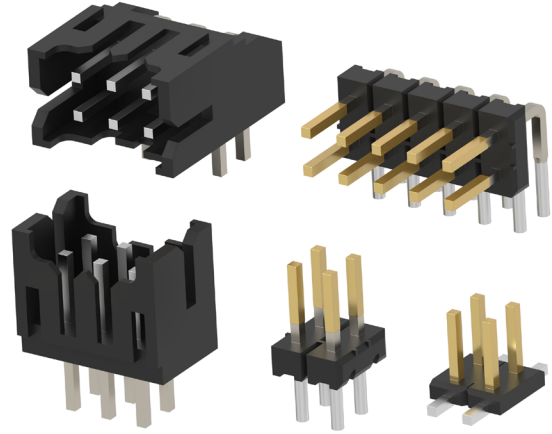
INTRODUCTION

AMPMODU 2mm connectors reliably and economically meet the packaging and inter-connection requirements of today's miniature sophisticated electronics. They are ideal for mobile and portable personal computers and disk drive applications. In today's marketplace, 2mm is expanding over many other industry segments due to space constraints.

This versatile double-row connector system is comprised of various straight and right-angle posted headers for thru-hole and surface mounting and several closed top-entry receptacle assemblies for vertical and horizontal mounting. Headers and receptacle assemblies are available in selected sizes ranging from 4 through 80 positions.

Thru-hole breakaway headers feature brass straight or right-angle posts with a post length of 4.0 [.16] and a lead length of 2.6 [.10].

The receptacle assemblies employ phosphor bronze contacts with dual cantilever beams and built-in anti-overstress. This feature, coupled with duplex (gold/tin-lead) plating of the header posts and receptacle contacts, provide superior electrical performance as well as excellent solderability.

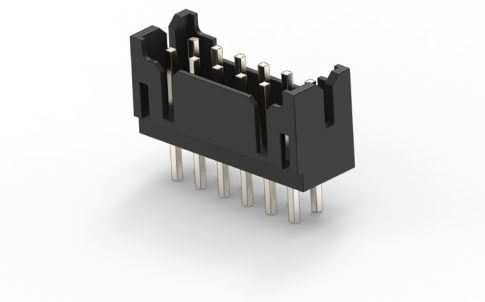


PRODUCT FACTS

- 2.0 x 2.0 [.08 x .08] centerline spacing
- Two-piece, double-row connector system
- Unshrouded header styles include; breakaway and surface-mount
- All headers with 0.5 [.02] square posted contacts
- Surface-mount connectors compatible with standard surface-mount processing (VPR, IR)
- Closed top-entry receptacle assemblies include; vertical mount and right-angle
- Receptacle contacts employ dual cantilever beams for two-point electrical stability
- Duplex (gold/tin-lead) plated posted contacts and receptacle contacts
- Thermoplastic housing material, UL 94V-0 rated
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 Certified by Canadian Standards Association, File No. LR7189
- Produced under a Quality Management System certified to ISO 9001



2mm HEADER, DIP VERTICAL
HEADER, VERTICAL MOUNT



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-0 Rated

Contacts- Phosphor Brass

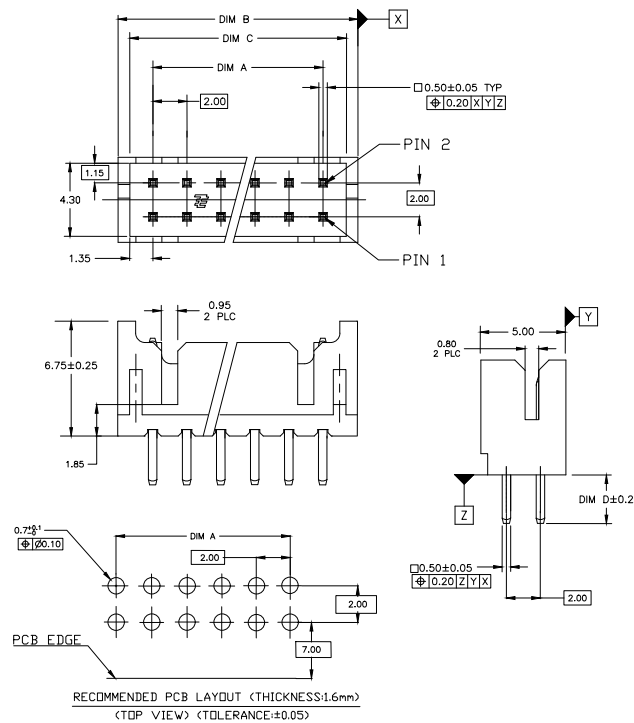
Contact Finish -
100μ” Min Bright-Tin Plated On Contact Area.
30μ” Min Nickel Under Plated Overall.

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

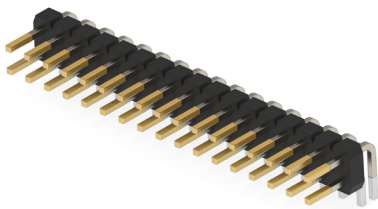
DIMENSION [UNIT: mm(in)]



PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
12	10.0 [.393]	14.0 [.551]	1-2823646-2

2mm PIN HEADER, DOUBLE ROW DIP
PIN HEADER , RIGHT ANGLE



MATERIAL AND FINISH

Housing - Black High temperature plastic UL 94V-0 Rated

Contacts- Phosphor Bronze

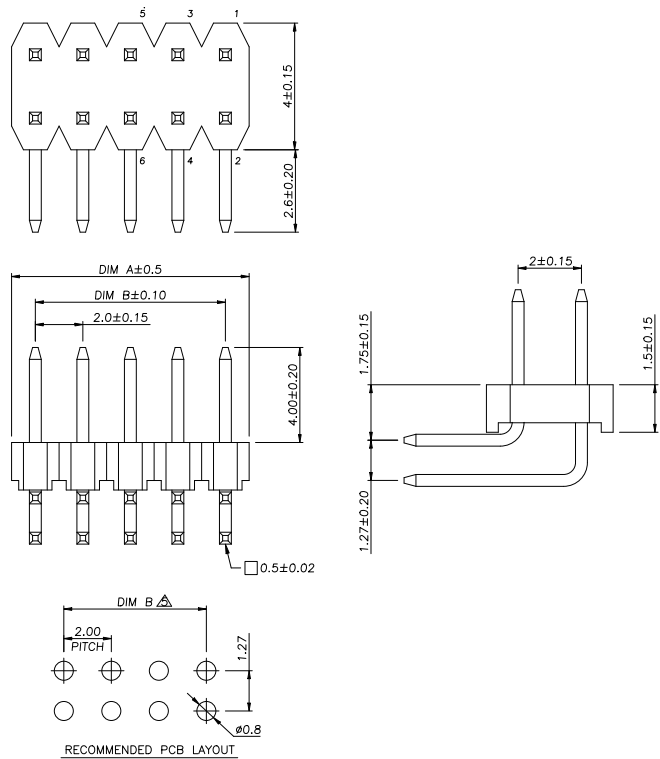
Contact Finish - Gold Plated On Contact Area, 2.54μm [100μ"] Min. Matte-Tin On Solder Tail, With Entire Contact Underplated 1.27μm [50μ"] Min. Nickel.

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

DIMENSION [UNIT: mm(in)]

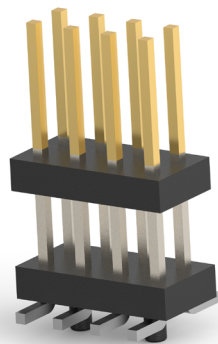


PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
34	34.0 [1.33]	32.0 [1.25]	3-1775652-4

2mm HEADER ASSEMBLY, DOUBLE ROW, VERTICAL, SURFACE MOUNT, STACKING

DIMENSION [UNIT: mm(in)]



MATERIAL AND FINISH

Housing - Black High temperature plastic UL 94V-0 Rated

Contacts- Phosphor Bronze

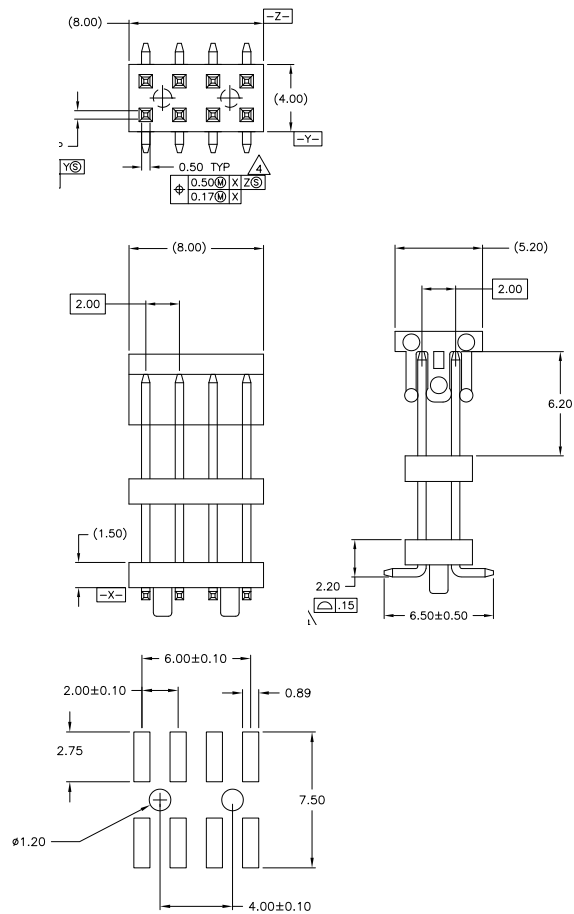
Contact Finish - Duplex Plated 0.000762 Gold On Contact Area, Tin-Lead On Solder Leads

Contact Finish: Duplex Plated 0.000762 Gold On Contact Area, Matte Tin On Solder Leads

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

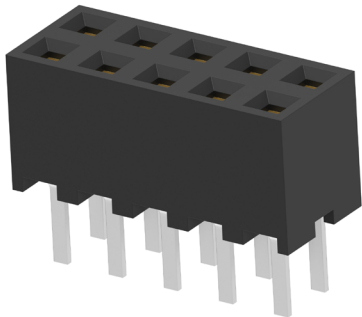


RECOMMENDED P.C.BOARD LAYOUT

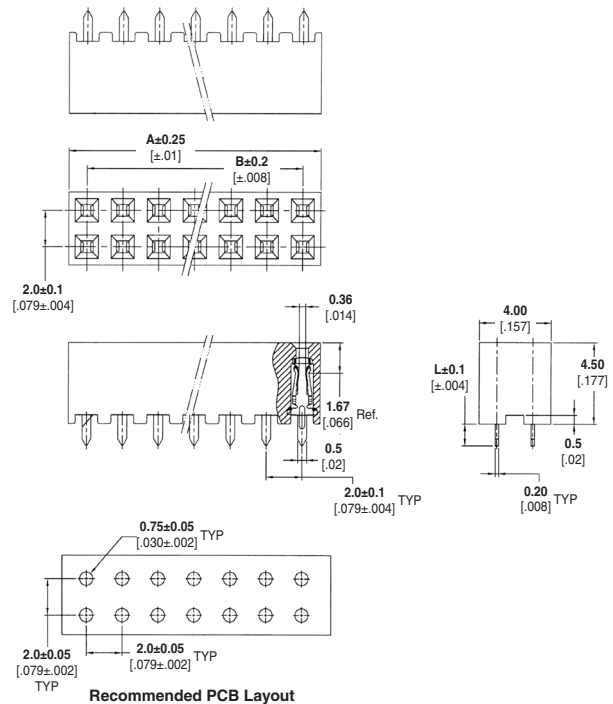
PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
8	20.2 [.765]	40.4 [1.59]	5-1571363-1

2mm CENTERLINE RECEPTACLES, DOUBLE ROW, THRU-HOLE, VERTICAL MOUNT
RECEPTACLE, THRU HOLE, VERTICAL



DIMENSION [UNIT: mm(in)]



MATERIAL AND FINISH

Housing - Black thermoplastic, UL 94 V-O Rated, 245°C Reflow

Contacts- Copper alloy, plated as follows:

A - 0.00020 [0.000008] min. gold on contact area, 0.00203 [0.000080] min. tin solder area, with entire contact underplated 0.00127 [0.000050] min. nickel

B - 0.00076 [0.000030] min. gold on contact area, 0.00203 [0.000080] min. tin on solder area, with entire contact underplated 0.00127 [0.000050] min. nickel

RELATED PRODUCT DATA

Product Specification - 108-57197

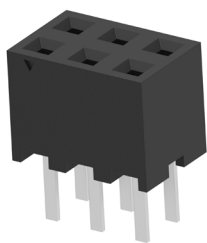
Packaging Method - Tray

PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers	
			Plating A	Plating B
	A	B	Dim. L 2.6+/-0.1 (.102+/-0.004)	Dim. L 2.6+/-0.1 (.102+/-0.004)
6	6.0 [.236]	4.0 [.157]	-	7-1470209-6
10	10.0 [.394]	8.0 [.315]	2-1470209-8	7-1470209-8
12	12.0 [.472]	10.0 [.394]	2-1470209-9	-
20	20.0 [.787]	18.0 [.709]	3-1470209-3	8-1470209-3
30	30.0 [1.181]	28.0 [1.102]	3-1470209-8	8-1470209-8
44	44.0 [1.732]	42.0 [1.654]	4-1470209-5	9-1470209-3
50	50.0 [1.969]	48.0 [1.890]	4-1470209-8	9-1470209-8

Note: All part numbers are RoHS compliant.

2mm CENTERLINE RECEPTACLES, DOUBLE ROW, THRU-HOLE, VERTICAL MOUNT RECEPTACLE, THRU HOLE, VERTICAL



MATERIAL AND FINISH

Housing - Black thermoplastic, UL 94 V-O Rated, 245°C Reflow

Contacts- Copper alloy, plated as follows:

A - 0.00020 [.000008] min. gold on contact area, 0.00203 [.000080] min. tin solder area, with entire contact underplated 0.00127 [.000050] min. nickel

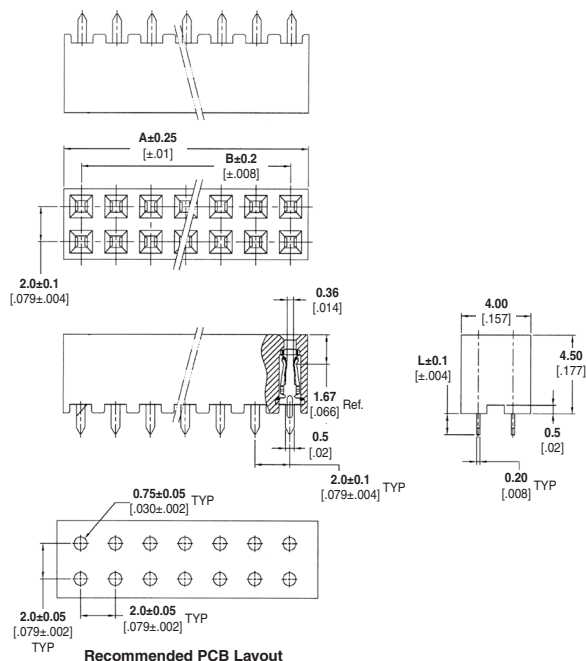
B - 0.00076 [.000030] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tray

DIMENSION [UNIT: mm(in)]

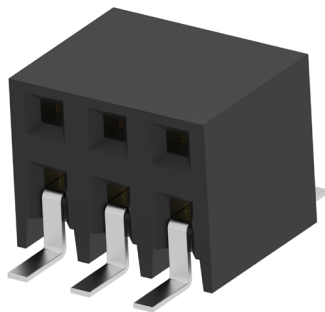


PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	Plating A Dim. L 2.6+/-0.1 (.102+/-0.004)
6	6.0 [.236]	4.0 [.157]	2-1734506-6
8	8.0 [.315]	6.0 [.236]	2-1734506-7
12	12.0 [.472]	10.0 [.394]	2-1734506-9
14	14.0 [.551]	12.0 [.472]	3-1734506-0
16	16.0 [.630]	14.0 [.551]	3-1734506-1
20	20.0 [.787]	18.0 [.709]	3-1734506-3
22	22.0 [.866]	20.0 [.787]	3-1734506-4
24	24.0 [.945]	22.0 [.866]	3-1734506-5
26	26.0 [1.024]	24.0 [.945]	3-1734506-6
30	30.0 [1.181]	28.0 [1.102]	3-1734506-8
32	32.0 [1.260]	30.0 [1.181]	3-1734506-9
36	36.0 [1.417]	34.0 [1.339]	4-1734506-1
38	38.0 [1.496]	36.0 [1.417]	4-1734506-2
40	40.0 [1.575]	38.0 [1.496]	4-1734506-3
42	42.0 [1.654]	40.0 [1.575]	4-1734506-4
48	48.0 [1.890]	46.0 [1.811]	4-1734506-7
50	50.0 [1.969]	48.0 [1.890]	4-1734506-8

Note: All part numbers are RoHS compliant.

2mm RECEPTACLE, DOUBLE ROW, SURFACE MOUNT, RIGHT-ANGLE MOUNT
RECEPTACLE, SURFACE MOUNT, RIGHT-ANGLE



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-O Rated

Contacts- Phosphor Bronze

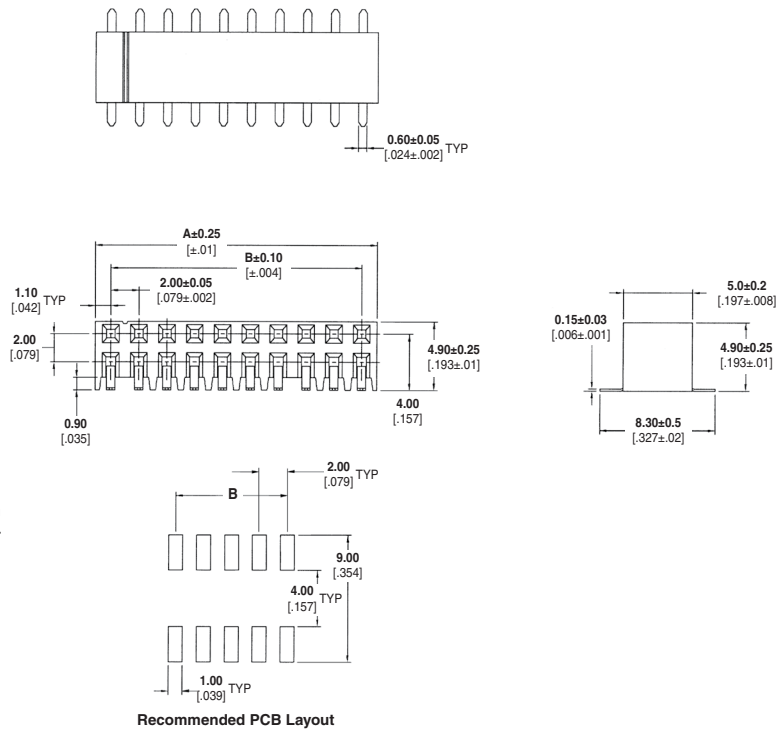
Contact Finish - 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00229 [.000090] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

DIMENSION [UNIT: mm(in)]



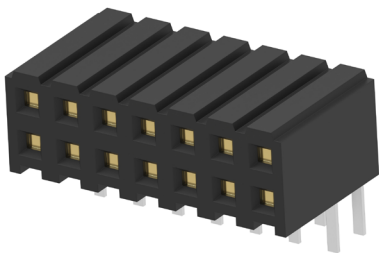
PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
6	6.20 [.244]	4.0 [.157]	1734606-6
8	8.20 [.323]	6.0 [.236]	1734606-8
24	24.20 [.953]	22.0 [.866]	2-1734606-4
50	50.20 [1.976]	48.0 [1.890]	5-1734606-0

Note: All part numbers are RoHS compliant.

AMPMODU Interconnection System

2mm RECEPTACLE, DOUBLE ROW, SURFACE MOUNT, RIGHT-ANGLE MOUNT RECEPTACLE, THRU-HOLE, RIGHT-ANGLE



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-O Rated

Contacts- Phosphor Bronze

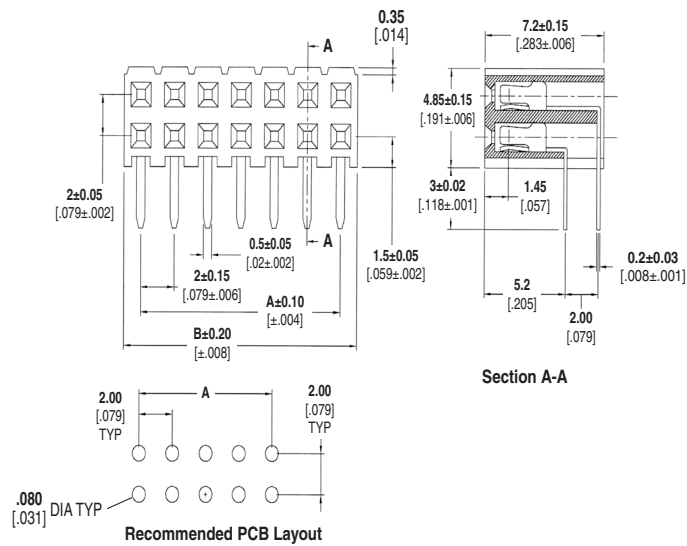
Contact Finish - 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00229 [.000090] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

DIMENSION [UNIT: mm(in)]



PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
14	12.0 [.472]	14.50 [.571]	1-1734531-4
16	14.0 [.551]	16.50 [.650]	1-1734531-6
20	18.0 [.709]	20.50 [.807]	2-1734531-0
22	20.0 [.787]	22.50 [.886]	2-1734531-2
30	28.0 [1.102]	30.50 [1.201]	3-1734531-0
44	42.0 [1.654]	44.50 [1.752]	4-1734531-4
50	48.0 [1.890]	50.50 [1.988]	5-1734531-0

Note: All part numbers are RoHS compliant.

2mm RECEPTACLE CONNECTOR VERTICAL MOUNT

RECEPTACLE, VERTICAL MOUNT



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-0 Rated

Contacts- Phosphor Brass, Thickness = 0.20mm

Contact Finish -

Gold Plated On Contact Area

80μ" Min. Matte Tin Plated On Solderails,

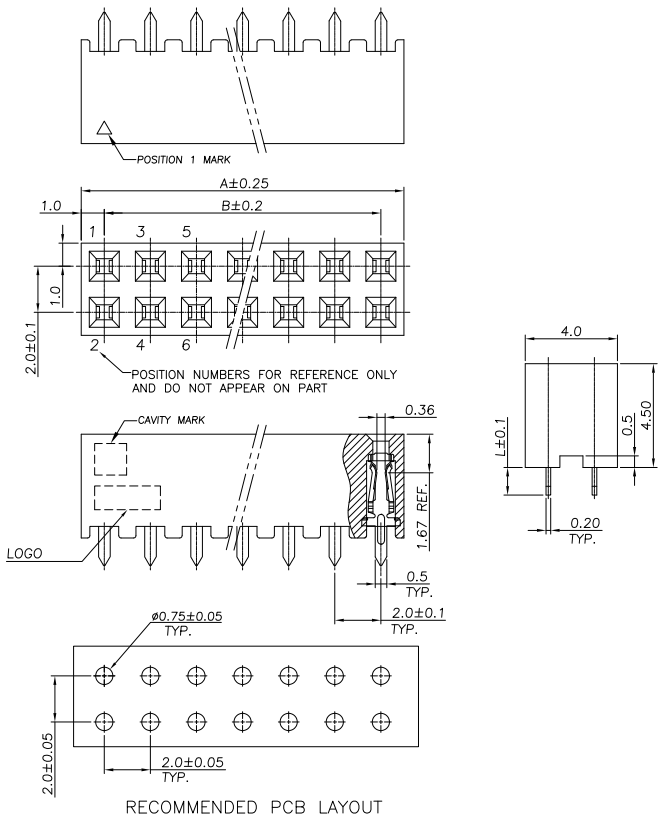
50μ" Min. Nickel Underplated All Over.

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

DIMENSION [UNIT: mm(in)]



PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
38	38 [1.49]	36 [1.41]	1-1977745-8

2mm RECEPTACLE, DIP

RECEPTACLE, THRU-HOLE, RIGHT-ANGLE



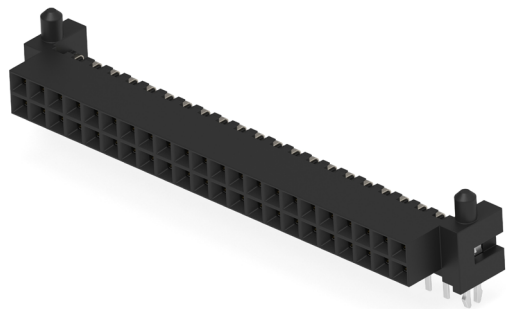
Gold Plated On Contact Area, 2.54μm [100μ"]
Min. Matte-Tin Per 112-65-1 On Solder Tail, With Entire
Contact Underplated 1.27μm [50μ"] Min. Nickel.

Packaging Method - Tape and reel

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
34	32.0 [1.25}	34.2 [1.34]	3-1775653-4

2mm RECEPTACLE ASSEMBLY DIP

RECEPTACLE, RIGHT-ANGLE



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-0 Rated

Contacts- Copper Alloy, 0.20mm

Board Lock- Copper Alloy Thickness 0.4 mm

Contact Finish -

Gold Plated On Contact Area, Tin Lead On Solder Tails,
Nickel Underplated All Over.

Board Lock : Tin Lead On Solder Tails,
Nickel Underplated All Over.

RELATED PRODUCT DATA

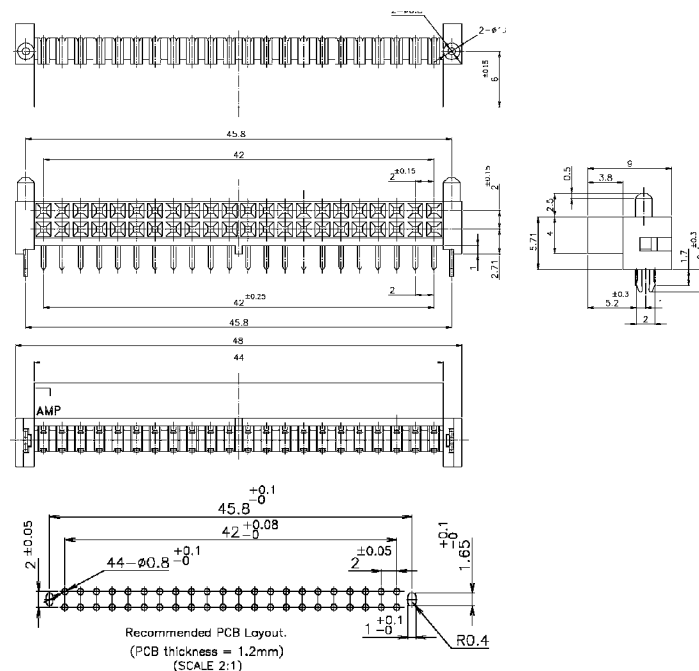
Product Specification - 108-57197

Packaging Method - Tape and reel

PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
44	42 [1.65]	45.8 [1.80]	4-1473648-4

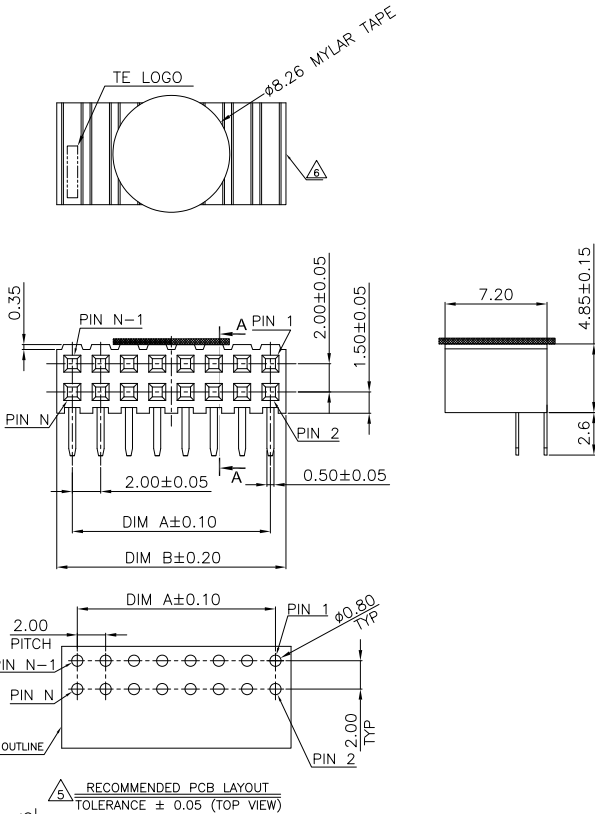
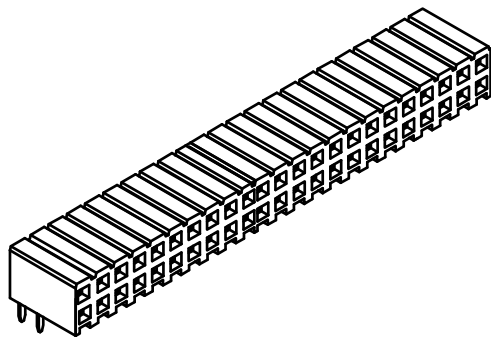
DIMENSION [UNIT: mm(in)]



2mm RECEPTACLE CONNECTOR RIGHT ANGLE MOUNT

RECEPTACLE, RIGHT-ANGLE

DIMENSION [UNIT: mm(in)]



MATERIAL AND FINISH

Housing - Black Thermoplastic, UL 94V-0 Rated

Contacts- Phosphor Bronze, Thickness 0.20mm

Contact Finish -
0.254µm [10µ"] Min. Gold Plated On Contact Area,
2.54µm [100µ"] Min. Bright Tin Plated On Solder Tail,
1.27µm [50µ"] Min. Nickel Under Plated Over All.

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

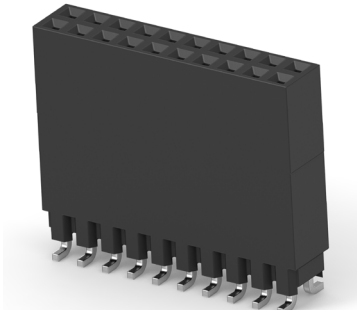
PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
10	8.0 [.315]	10.2 [.401]	1-2178615-0
14	12.0 [.472]	14.2 [.559]	1-2178615-4

AMPMODU Interconnection System

2mm RECEPTACLE BOX HEADER, DOUBLE ROW

RECEPTACLE , VERTICAL MOUNT



MATERIAL AND FINISH

Housing - Black High temperature plastic UL 94V-0 Rated

Contacts- Copper Alloy

Contact Finish -

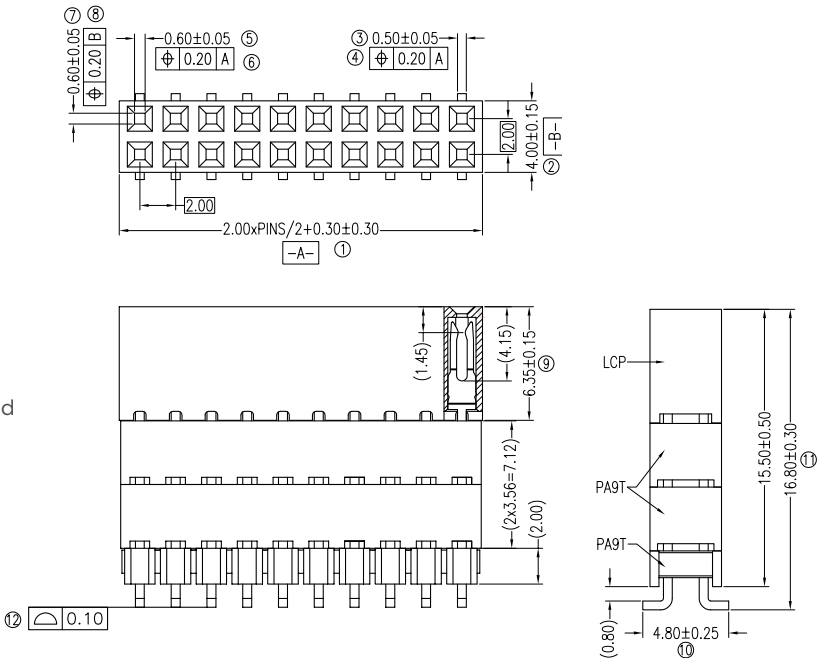
- 3u" Gold On Contact Area
- 80u" Tin On Soldering Area
- 50u" Nickel Underplating Overall.

RELATED PRODUCT DATA

Product Specification - 108-57197

Packaging Method - Tape and reel

DIMENSION [UNIT: mm(in)]

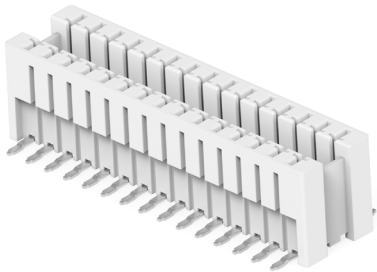


PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
20	20.3 [.799]	4 [.157]	2-2271925-0

2mm RECEPTACLE CONNECTORS ASSEMBLY

RECEPTACLE, VERTICAL MOUNT



MATERIAL AND FINISH

Housing - Black High temperature plastic UL 94V-0 Rated

Contacts- Copper Alloy

Contact Finish - Tin Plating, Nickel under plating all over.

RELATED PRODUCT DATA

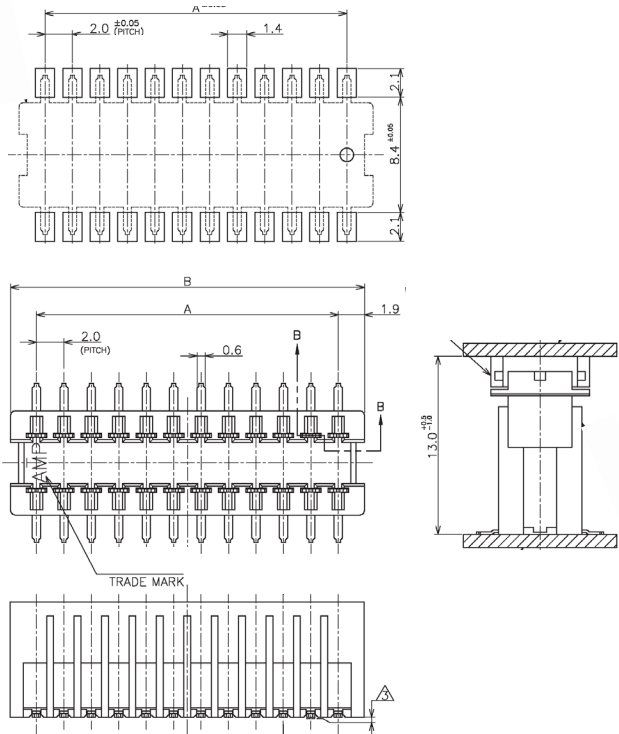
Product Specification - 108-57197

Packaging Method - Tape and reel

PRODUCT INFORMATION

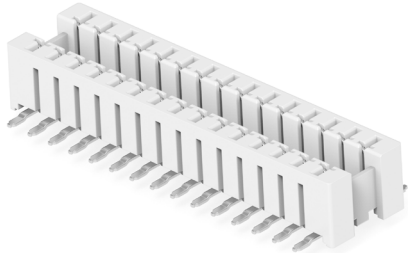
No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
30	28.0 [1.10]	25.4 [1.00]	3-917412-0

DIMENSION [UNIT: mm(in)]



2mm RECEPTACLE CONNECTORS ASSEMBLY (V-TYPE) ON TAPING

RECEPTACLE, VERTICAL MOUNT



MATERIAL AND FINISH

Housing - Black High temperature plastic UL 94V-0 Rated

Contacts- Copper Alloy

Contact Finish - Tin Plating, Nickel under plating all over.

RELATED PRODUCT DATA

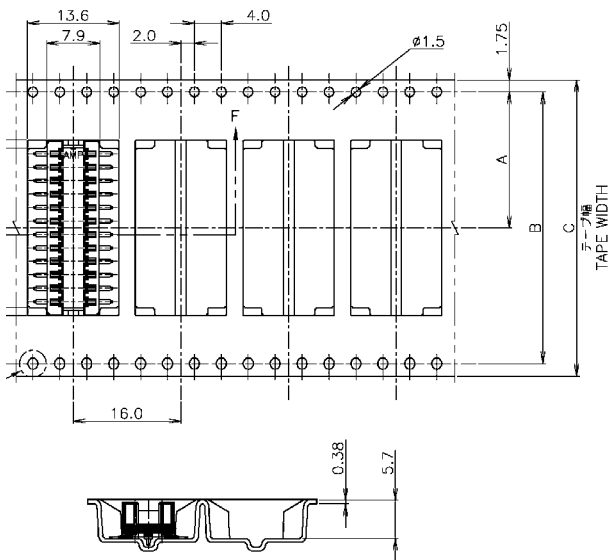
Product Specification - 108-57197

Packaging Method - Tape and reel

PRODUCT INFORMATION

No. of Pos.	Dimensions mm(in)		Part Numbers
	A	B	
30	20.2 [.795]	40.4 [1.59]	3-917946-1

DIMENSION [UNIT: mm(in)]



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