

# 2.5 Pitch 2500 SERIES CONNECTOR



2.5 mm Pitch Wire-to-Board Connector

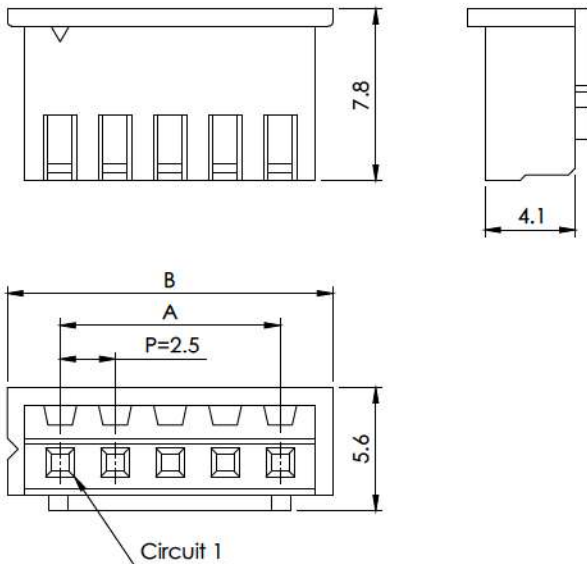
RoHS REACH LF HFA GWT

## Specifications

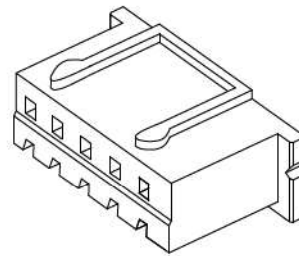
- ◇ Current rating: 3A AC/DC Max.
- ◇ Voltage Range: 250V AC,DC
- ◇ Withstand Voltage: 1000V AC/Minute
- ◇ Contact Resistance: 10 mΩ Max. before environment test
- ◇ Insulation Resistance: 1000 MΩ Min.
- ◇ Temperature Range: -25° C to 85° C

## Reference

- ◇ Mates with 2501P, 2502P series Single-Row Header
- ◇ Use with 2503T series Crimp Terminal
- ◇ Certification: UL, CSA
- ◇ GWT 850° C rated product is available
- ◇ Applicable wire gauge: AWG 22 - 28



## 2500S Single-Row Plug Housing



## Ordering Information

Circuits	Part No.	Dimension		
		A	B	C
2	2500S02 00	2.5	5.7	7.3
3	2500S03 00	5.0	8.2	9.8
4	2500S04 00	7.5	10.7	12.3
5	2500S05 00	10.0	13.2	14.8
6	2500S06 00	12.5	15.7	17.3
7	2500S07 00	15.0	18.2	19.8
8	2500S08 00	17.5	20.7	22.3
9	2500S09 00	20.0	23.2	24.8
10	2500S10 00	22.5	25.7	27.3
11	2500S11 00	25.0	28.2	29.8
12	2500S12 00	27.5	30.7	32.3
13	2500S13 00	30.0	33.2	34.8
14	2500S14 00	32.5	35.7	37.3
15	2500S15 00	35.0	38.2	39.8
16	2500S16 00	37.5	40.7	42.3

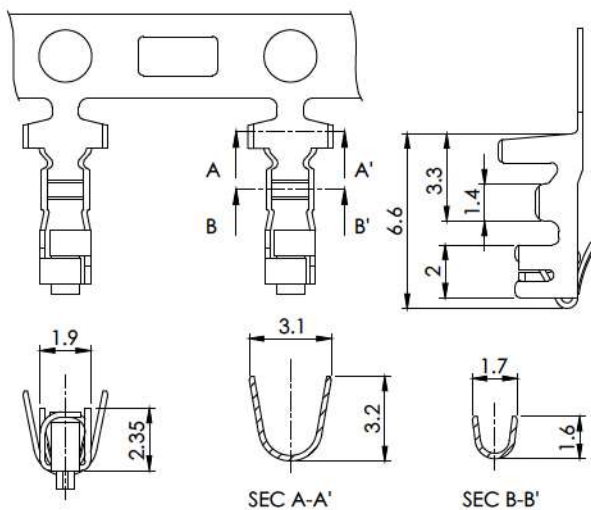
## Material

Nylon 66 94V-0, White (natural)

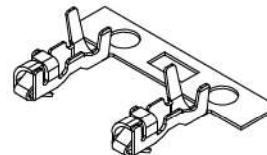
※ Color Identification: the following alphabet shall be added,  
ex. 2500S 12 00 - B  
12... Circuit no.  
B... Black, E... Blue, R... Red color

## Reference

- ◇ Use with 2500S series Plug Housing



## 2503T Crimp Terminal



## Ordering Information

Part No.	Applicable Wire		
	AWG #	Insulation O.D. mm	Q'ty / Reel
2503T011R	22 - 28	1.9 Max.	8,000
2503T012R	22 - 28	1.9 Max.	8,000

## Material

Part No.	Material
2503T011R	Phosphor Bronze, Tin-plated
2503T012R	Brass, Tin-plated

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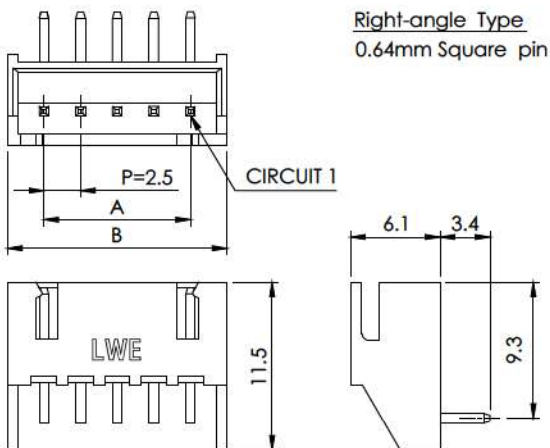
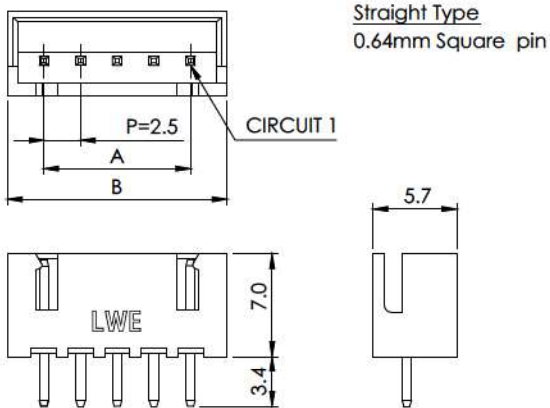
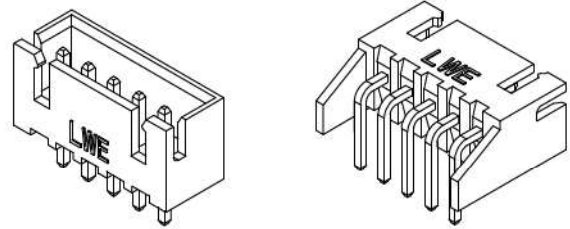
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- ◇ Insulation Resistance: 1000 MΩ Min.
- ◇ Temperature Range: -25° C to 85° C

## Reference

- ◇ Mates with 2500S series Plug Housing
- ◇ Mates with 2500R series Receptacle Header
- ◇ Certification: Refer to 2500S series
- ◇ GWT 850° C rated product is available

## 2501P, 2502P DIP Header



## Ordering Information

Circuits	Part No.		Dimension	
	Straight	Right-Angle	A	B
2	2501P02 00T	2502P02 00T	2.5	7.5
3	2501P03 00T	2502P03 00T	5.0	10.0
4	2501P04 00T	2502P04 00T	7.5	12.5
5	2501P05 00T	2502P05 00T	10.0	15.0
6	2501P06 00T	2502P06 00T	12.5	17.5
7	2501P07 00T	2502P07 00T	15.0	20.0
8	2501P08 00T	2502P08 00T	17.5	22.5
9	2501P09 00T	2502P09 00T	20.0	25.0
10	2501P10 00T	2502P10 00T	22.5	27.5
11	2501P11 00T	2502P11 00T	25.0	30.0
12	2501P12 00T	2502P12 00T	27.5	32.5
13	2501P13 00T	2502P13 00T	30.0	35.0
14	2501P14 00T	2502P14 00T	32.5	37.5
15	2501P15 00T	2502P15 00T	35.0	40.0
16	2501P16 00T	2502P16 00T	37.5	42.5

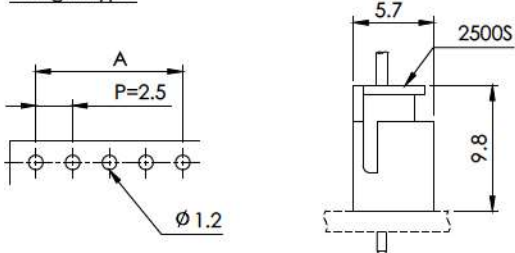
## Material

Part	Material
Base	Nylon 66 94V-0, White (natural)
Contact	Brass, Tin-plated

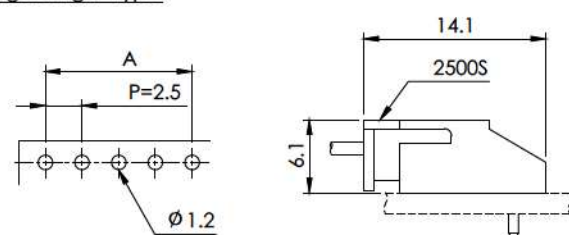
※ Color Identification: the following alphabet shall be added,  
ex. 2501P 12 00 T - B  
12... Circuit no.  
T... Tin-plated, V... Matte tin-plated  
B... Black, E... Blue, R... Red color

## P.C. Board Layout / Assembly Layout

### Straight Type



### Right-angle Type





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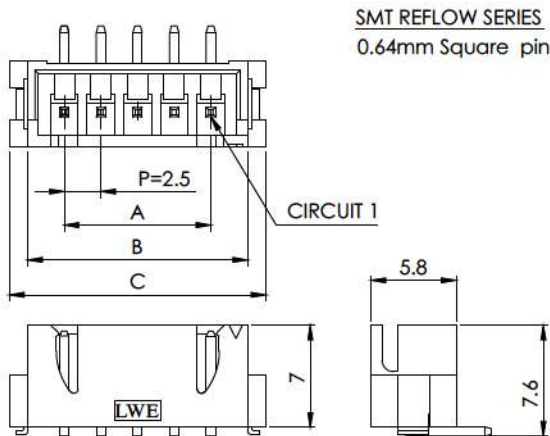
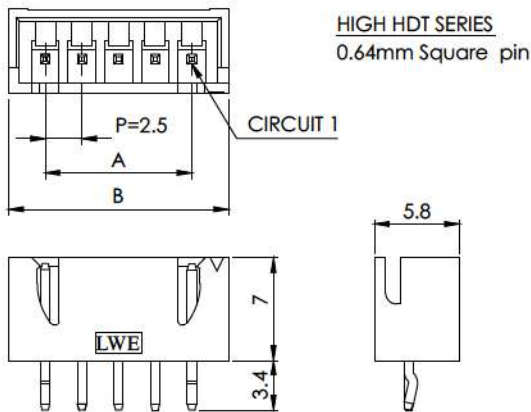
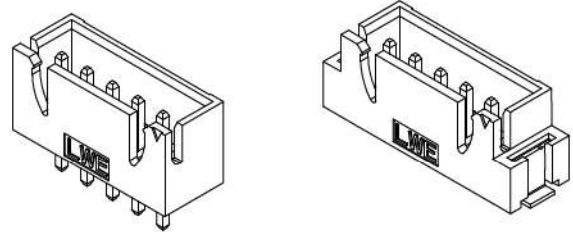
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- ◇ Temperature Range: -25° C to 85° C

## Reference

- ◇ Mates with 2500S series Plug Housing
- ◇ Mates with 2500R series Receptacle Header
- ◇ Certification: Refer to 2500S series
- ◇ GWT 850° C rated product

## 2501P DIP and SMT Header HEAT SOLDER SERIES



## Ordering Information: HEAT SOLDER SERIES

Circuits	Part No.		Dimension		
	HIGH HDT	SMT Re-flow	A	B	C
2	2501P02 09V	2501P02 S9V	2.5	7.5	10.0
3	2501P03 09V	2501P03 S9V	5.0	10.0	12.5
4	2501P04 09V	2501P04 S9V	7.5	12.5	15.0
5	2501P05 09V	2501P05 S9V	10.0	15.0	17.5
6	2501P06 09V	2501P06 S9V	12.5	17.5	20.0
7	2501P07 09V	2501P07 S9V	15.0	20.0	22.5
8	2501P08 09V	2501P08 S9V	17.5	22.5	25.0
9	2501P09 09V	2501P09 S9V	20.0	25.0	27.5
10	2501P10 09V	2501P10 S9V	22.5	27.5	30.0
11	2501P11 09V	2501P11 S9V	25.0	30.0	32.5
12	2501P12 09V	2501P12 S9V	27.5	32.5	35.0
13	2501P13 09V	2501P13 S9V	30.0	35.0	37.5
14	2501P14 09V	2501P14 S9V	32.5	37.5	40.0
15	2501P15 09V	2501P15 S9V	35.0	40.0	42.5

## Material

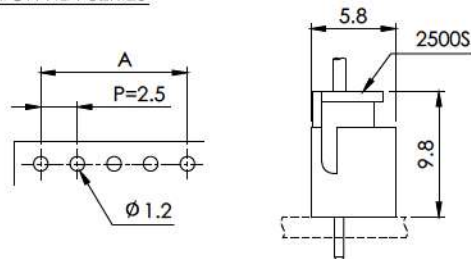
Part	Material
Base	HIGH HDT Nylon-GF 94V-0, Ivory Color
Contact	Brass, Matte tin-plated
Peg	

※ Color Identification: the following alphabet shall be added,  
 ex. 2501P 12 09 X - B  
 ex. 2501P 12 S9 X - B  
 12... Circuit no.  
 X... Plating no.: V... Matte tin-plated  
 B... Black, E... Blue, R... Red color

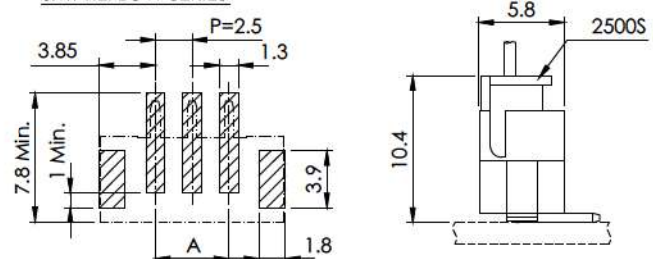
※ P/N for Halogen-Free replacement:  
 ex. 2501P 12 09 X - S NH  
 ex. 2501P 12 S9 X - S NH  
 S... Ivory (base color), NH... Halogen-Free

## P.C. Board Layout / Assembly Layout

### HIGH HDT SERIES



### SMT REFLOW SERIES



# 2.5 Pitch 2500 SERIES CONNECTOR



2.5 mm Pitch Wire-to-Board Connector



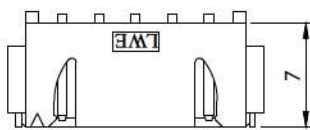
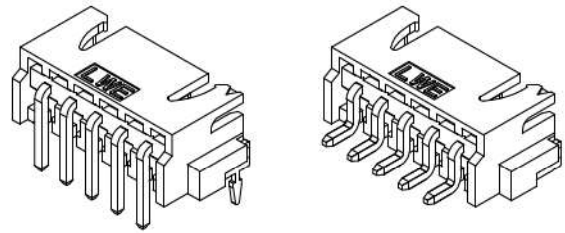
## Specifications

- ◇ Current rating: 3A AC/DC Max.
- ◇ Voltage Range: 250V AC,DC
- ◇ Withstand Voltage: 1000V AC/Minute
- ◇ Contact Resistance: 10 mΩ Max. before environment test
- ◇ Insulation Resistance: 1000 MΩ Min.
- ◇ Temperature Range: -25° C to 85° C

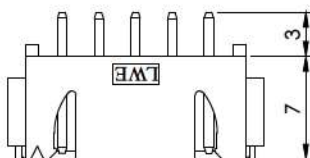
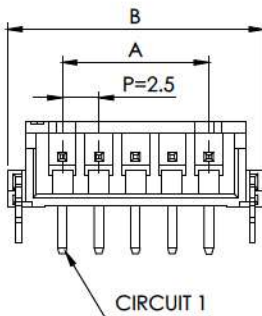
## Reference

- ◇ Mates with 2500S series Plug Housing
- ◇ Mates with 2500R series Receptacle Header
- ◇ Certification: Refer to 2500S series
- ◇ GWT 850° C rated product

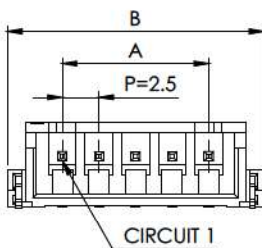
## 2502P DIP and SMT Header HEAT SOLDER SERIES



**HIGH HDT SERIES**  
0.64mm Square pin



**SMT REFLOW SERIES**  
0.64mm Square pin



## Ordering Information: HEAT SOLDER SERIES

Circuits	Part No.		Dimension	
	HIGH HDT	SMT Re-flow	A	B
2	2502P02 09V	2502P02 S9V	2.5	10.0
3	2502P03 09V	2502P03 S9V	5.0	12.5
4	2502P04 09V	2502P04 S9V	7.5	15.0
5	2502P05 09V	2502P05 S9V	10.0	17.5
6	2502P06 09V	2502P06 S9V	12.5	20.0
7	2502P07 09V	2502P07 S9V	15.0	22.5
8	2502P08 09V	2502P08 S9V	17.5	25.0
9	2502P09 09V	2502P09 S9V	20.0	27.5
10	2502P10 09V	2502P10 S9V	22.5	30.0
11	2502P11 09V	2502P11 S9V	25.0	32.5
12	2502P12 09V	2502P12 S9V	27.5	35.0
13	2502P13 09V	2502P13 S9V	30.0	37.5
14	2502P14 09V	2502P14 S9V	32.5	40.0
15	2502P15 09V	2502P15 S9V	35.0	42.5

## Material

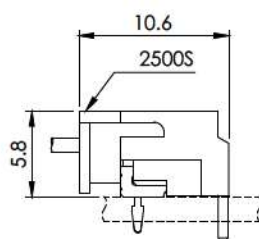
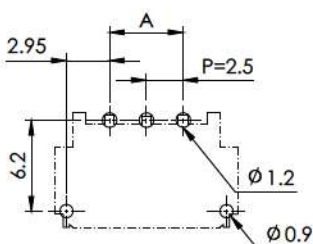
Part	Material
Base	HIGH HDT Nylon-GF 94V-0, Ivory Color
Contact	Brass, Matte tin-plated
Peg	

※ Color Identification: the following alphabet shall be added,  
 ex. 2502P 12 09 X - B  
 ex. 2502P 12 S9 X - B  
 12... Circuit no.  
 X... Plating no.: V... Matte tin-plated  
 B... Black, E... Blue, R... Red color

※ P/N for Halogen-Free replacement:  
 ex. 2502P 12 09 X - S NH  
 ex. 2502P 12 S9 X - S NH  
 S... Ivory (base color), NH... Halogen-Free

## P.C. Board Layout / Assembly Layout

### HIGH HDT SERIES



### SMT REFLOW SERIES

