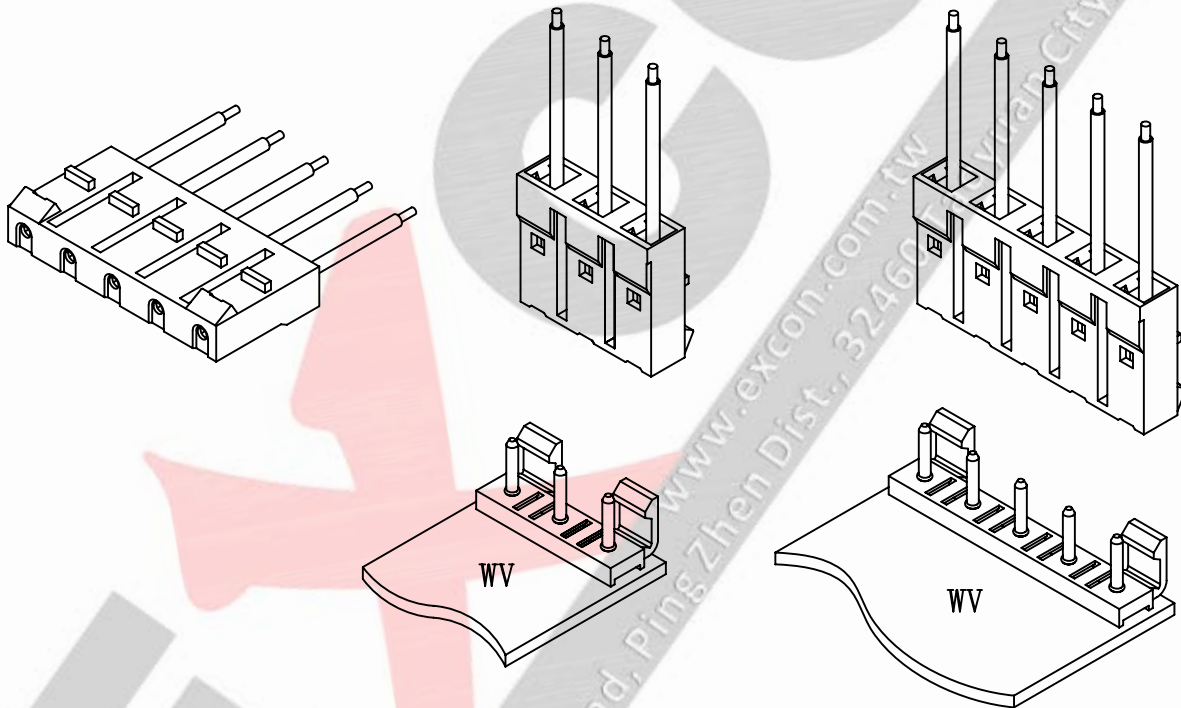


■ Specifications

1. Current rating: 9A AC/DC
2. Voltage rating: 250V AC/DC
3. Withstand voltage: 1000V AC/minute
4. Insulation resistance: 1000M Ω min
5. Contact resistance: 10m Ω max
6. Temperature range: -40°C to +105°C
7. Applicable PC board thickness: 1.0~1.6mm(.039" to .063")
8. Applicable wires: AWG#24-#18
Insulation O.D.: 1.3-2.8mm
9. Circuits: 1~15 circuits available



Part Code Information:

5091-WW XX YYY

① ② ③ ④

① Series Name

② Circuits Number

01~15

00 For Terminal

③ Product Type

HA=Housing

WV=Wafer (Vertical type)

WT=Wafer (Vertical type, round pin)

TC=Terminal

④ Material/Finishing/Color

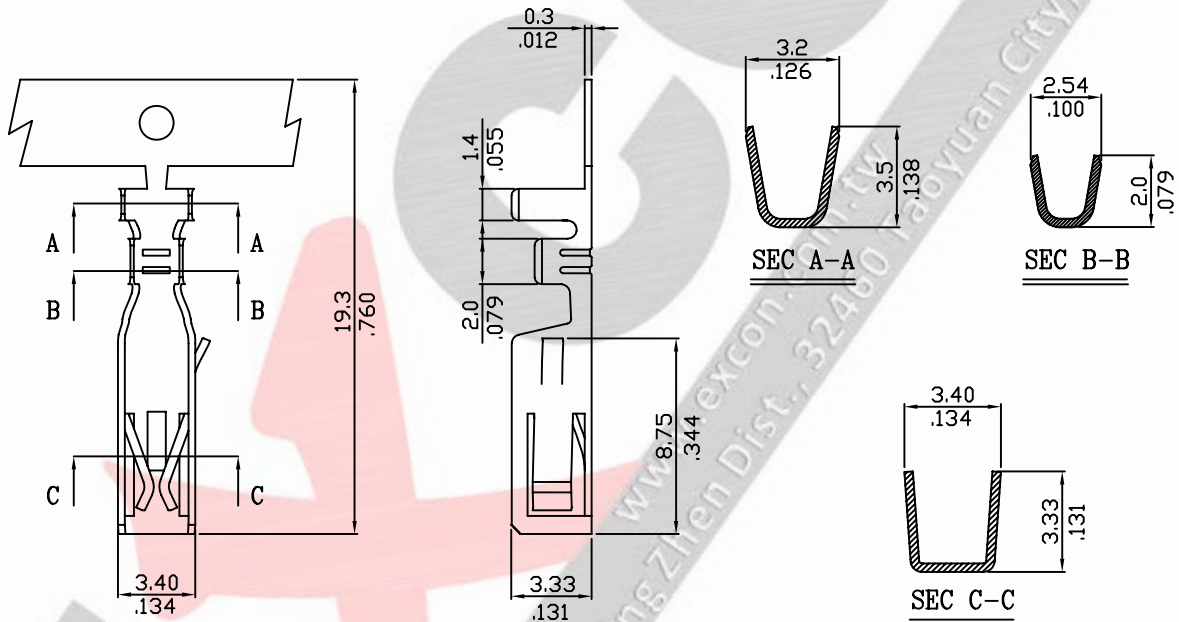
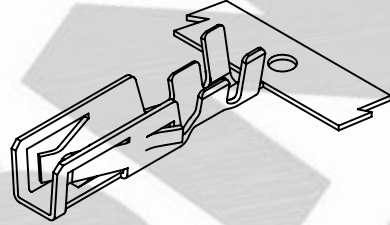
351=Phosphor,Tin Pre-Plated

051=Brass bronze,Tin Pre-Plated

001=NY 66 94V0,Natural Color

Crimp Terminal

1. Part No.: 509100TC051,509100TC351
2. Part Name: 5091 Terminal
3. Material: Phosphor/Brass bronze
4. Finishing: Tin pre-plated



Ordering Information and Dimensions:

Part No.	Wire Range	Insulation O.D.	Material	Finishing	Q'ty/reel
509100TC051	AWG#26~#18	1.3-2.8mm	Brass	Tin pre-plated	6,000pcs
509100TC351	AWG#26~#18	1.3-2.8mm	Phosphor	Tin pre-plated	6,000pcs

5091-WW XX YY

① ② ③ ④

① Series Name

② Circuits Number

00 For Terminal

③ Product Type

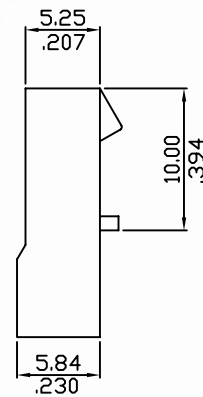
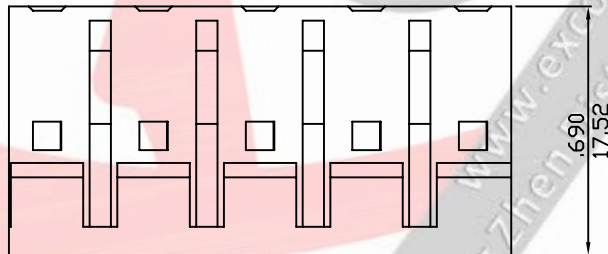
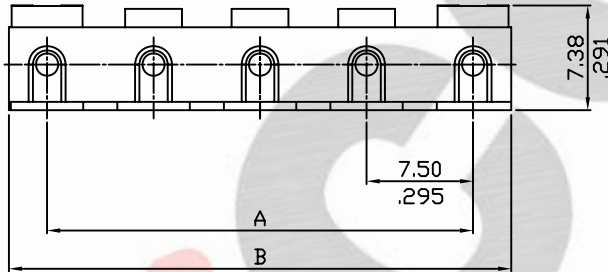
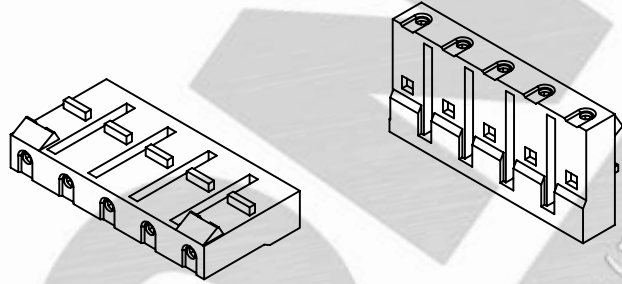
TC=Terminal

④ Material/Finishing/Color

051=Brass bronze,Tin Pre-Plated
351=Phosphor,Tin Pre-Plated

Housing

1. Part No.: 5091xxHA001
2. Part Name: 5091 Housing
3. Material: Nylon 66 UL 94V0
4. Color: Natural



Ordering Information and Dimensions:

Part No.	Circuits	Dim A	Dim B	Part No.	Circuits	Dim A	Dim B
509101HA001	1	--	5.38(.212)	509109HA001	9	60.00(2.362)	65.38(2.574)
509102HA001	2	7.50(.295)	12.88(.507)	509110HA001	10	67.50(2.657)	72.88(2.869)
509103HA001	3	15.00(.591)	20.38(.802)	509111HA001	11	75.00(2.953)	80.38(3.165)
509104HA001	4	22.50(.886)	27.88(1.098)	509112HA001	12	82.50(3.248)	87.88(3.460)
509105HA001	5	30.00(1.181)	35.38(1.393)	509113HA001	13	90.00(3.543)	95.38(3.755)
509106HA001	6	37.50(1.476)	42.88(1.688)	509114HA001	14	97.50(3.839)	102.88(4.050)
509107HA001	7	45.00(1.772)	50.38(1.983)	509115HA001	15	105.00(4.134)	110.38(4.346)
509108HA001	8	52.50(2.067)	57.88(2.279)				

Part Code Information:

5091-WW XX YYY

① ② ③ ④

① Series Name

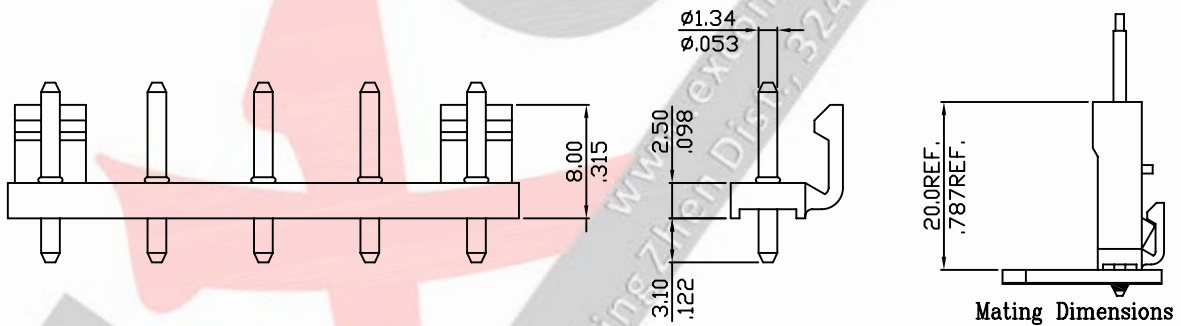
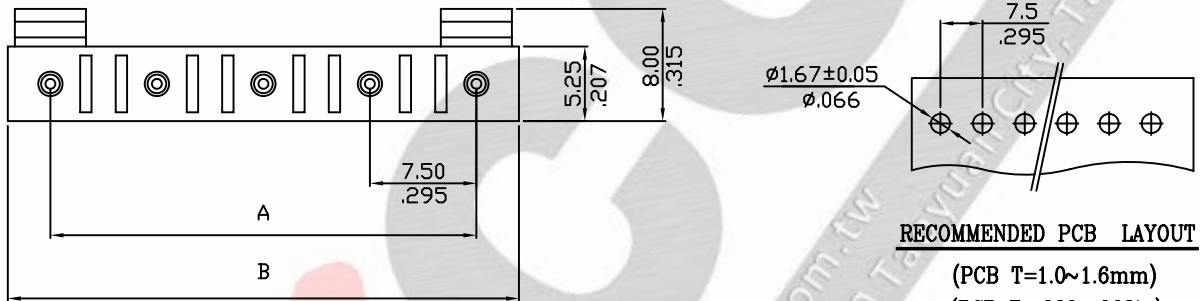
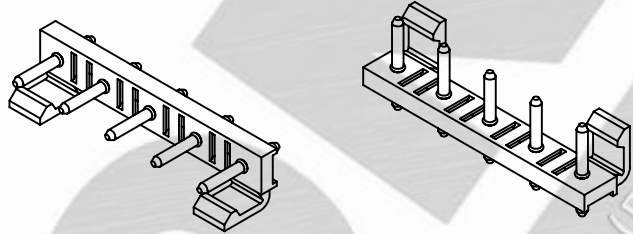
② Circuits Number
01~15

③ Product Type
HA=Housing

④ Material/Finishing/Color
001=NY 66 94V0,Natural Color

Wafer (Vertical type)

1. Part No.: 5091xxWV001
2. Part Name: 5091 Wafer
3. Material: Nylon 66 UL 94V0
Pin: Brass bronze, Tin plated
5. Color: Natural



Ordering Information and Dimensions:

Part No.	Circuits	Dim A	Dim B	Part No.	Circuits	Dim A	Dim B
509101WV001	1	--	6.00(.236)	509109WV001	9	60.00(2.362)	66.00(2.598)
509102WV001	2	7.50(.295)	13.50(.531)	509110WV001	10	67.50(2.657)	73.50(2.894)
509103WV001	3	15.00(.591)	21.00(.827)	509111WV001	11	75.00(2.953)	81.00(3.189)
509104WV001	4	22.50(.886)	28.50(1.122)	509112WV001	12	82.50(3.248)	88.50(3.484)
509105WV001	5	30.00(1.181)	36.00(1.417)	509113WV001	13	90.00(3.543)	96.00(3.780)
509106WV001	6	37.50(1.476)	43.50(1.713)	509114WV001	14	97.50(3.839)	103.50(4.075)
509107WV001	7	45.00(1.772)	51.00(2.008)	509115WV001	15	105.00(4.134)	111.00(4.370)
509108WV001	8	52.50(2.067)	58.50(2.303)				

Part Code Information:

5091-WW XX YYY

① ② ③ ④

① Series Name

② Circuits Number

01~15

③ Product Type

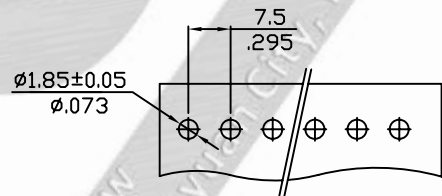
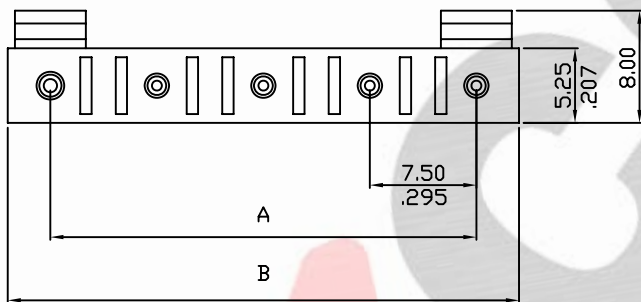
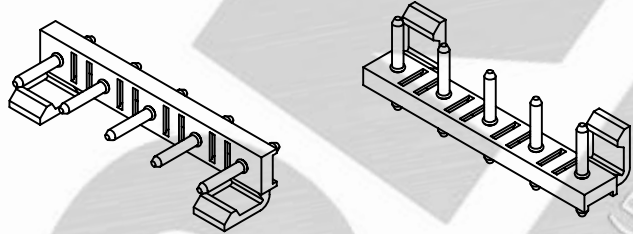
WV=Wafer (Vertical type)

④ Material/Finishing/Color

001=NY 66 94V0,Natural Color

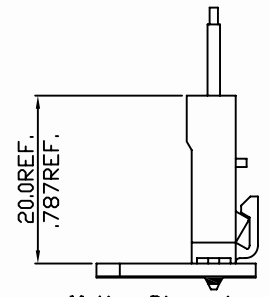
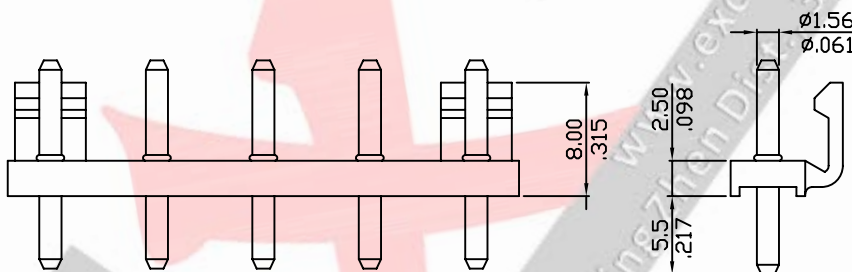
Wafer (Vertical type)

1. Part No.: 5091xxWT001
2. Part Name: 5091 Wafer
3. Material: Nylon 66 UL 94V0
Pin: Brass bronze, Tin plated
5. Color: Natural



RECOMMENDED PCB LAYOUT

(PCB T=1.0~1.6mm)
(PCB T=.039~.063in)



Mating Dimensions

Ordering Information and Dimensions:

Part No.	Circuits	Dim A	Dim B	Part No.	Circuits	Dim A	Dim B
509101WT001	1	--	6.00(.236)	509109WT001	9	60.00(2.362)	66.00(2.598)
509102WT001	2	7.50(.295)	13.50(.531)	509110WT001	10	67.50(2.657)	73.50(2.894)
509103WT001	3	15.00(.591)	21.00(.827)	509111WT001	11	75.00(2.953)	81.00(3.189)
509104WT001	4	22.50(.886)	28.50(1.122)	509112WT001	12	82.50(3.248)	88.50(3.484)
509105WT001	5	30.00(1.181)	36.00(1.417)	509113WT001	13	90.00(3.543)	96.00(3.780)
509106WT001	6	37.50(1.476)	43.50(1.713)	509114WT001	14	97.50(3.839)	103.50(4.075)
509107WT001	7	45.00(1.772)	51.00(2.008)	509115WT001	15	105.00(4.134)	111.00(4.370)
509108WT001	8	52.50(2.067)	58.50(2.303)				

Part Code Information:

5091-WW XX YYY

① ② ③ ④

① Series Name

② Circuits Number

01~15

③ Product Type

WT=Wafer (Vertical type)

④ Material/Finishing/Color

001=NY 66 94V0,Natural Color