

Vertical Mate Connector 2.0mm Pitch

9155-800



Traditional battery connectors have been used for years in a number of applications: battery packs, removable or pluggable modules and conventional board-to-board to connect both signal level and power circuits. These ultra reliable and robust gold plated beryllium copper contacts provide high integrity connections in harsh environments.

The vertical mate 9155-800 series eliminates end user damage when pluggable modules or packs are pressed down vertically into a base unit. Traditional right angle connectors have contact geometries that rely on the pack being inserted at an angle and then rotated down into position. The unique contact design of this connector deflects cleanly and easily when a module or mating connector is pushed vertically into position, eliminating any end user damage.

APPLICATIONS

- Handheld/portable devices requiring docking or cradle charging
- Patient monitoring or portable medical electronics
- Industrial devices requiring pluggable or programming modules
- Internet appliances requiring battery back-up
- Application notes; refer to 201-01-205

FEATURES AND BENEFITS

- Gold plated BeCu contacts provide high electrical and mechanical performance over 5000 mating cycles
- Unique contact geometry allows for full vertical engagement in pluggable module applications
- Plastic locating bosses and SMT anchor tabs maximizes the mechanical stability of the connector in harsh conditions
- Contact nose incorporates an anti-snag feature to protect during deflection

ELECTRICAL

- Current Rating: 2p-4p: 2.0 Amps, 5p-6p: 1.5 Amps
- Voltage Rating: 125 VAC

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel, Tin leads
- Durability: 5000 Cycles

HOW TO ORDER

00
Prefix

9155
Series

00X
No of Ways

Code	No of Ways	Packing QTY
002	2	1000
003	3	1000
004	4	1000
005	5	1000
006	6	1000

8XX

Standard Battery Connector

852 = Battery Connector
Right Angle
Connector Height: 5.00mm
Boss: Yes

00

X

Plating Option

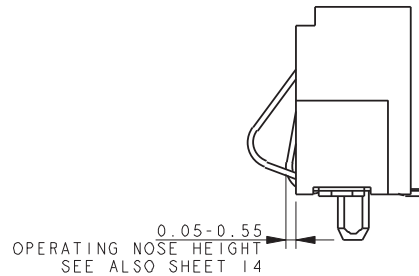
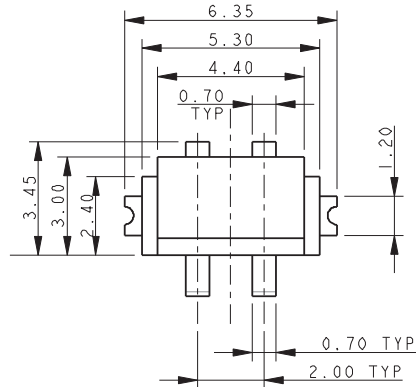
6 = 0.4µm Selective Gold, Pure Tin Tail
8 = 0.8µm Selective Gold, Pure Tin Tail



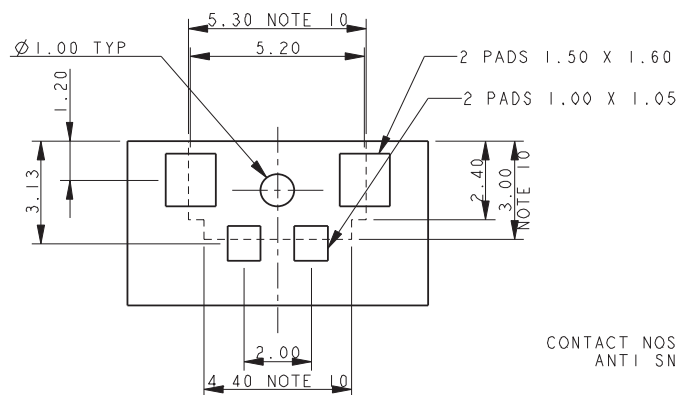
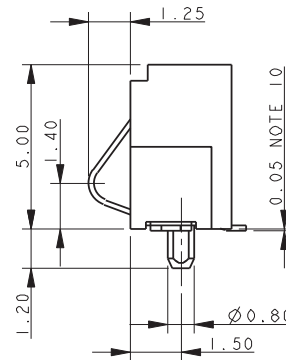
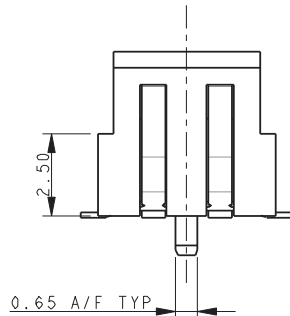
Vertical Mate Connector 2.0mm Pitch

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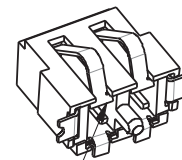
2 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT



CONTACT NOSE RETAINED
ANTI SNAG FEATURE

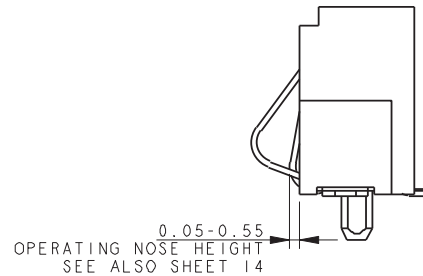
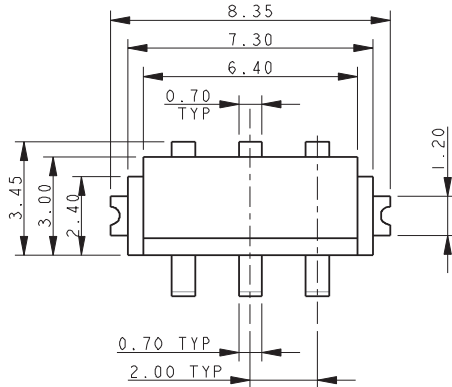
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
5. INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-O, COLOR BLACK.
6. CONTACT MATERIAL: BERYLLIUM COPPER.
7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

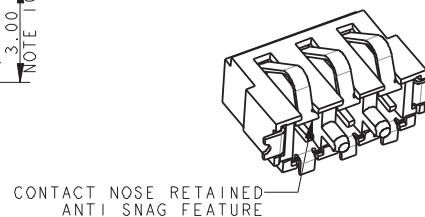
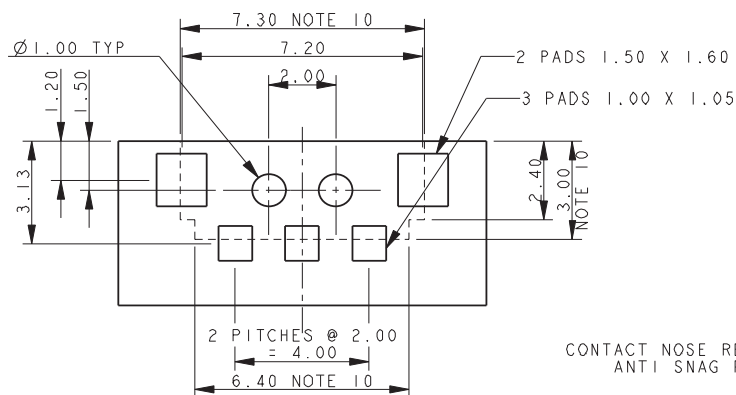
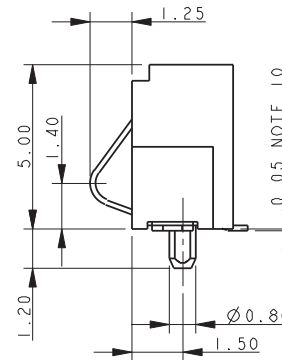
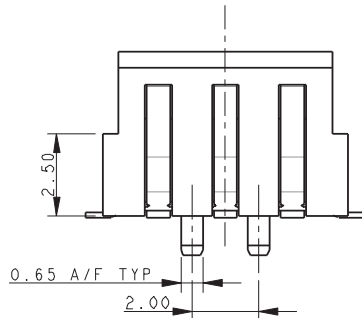
Vertical Mate Connector 2.0mm Pitch

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3 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

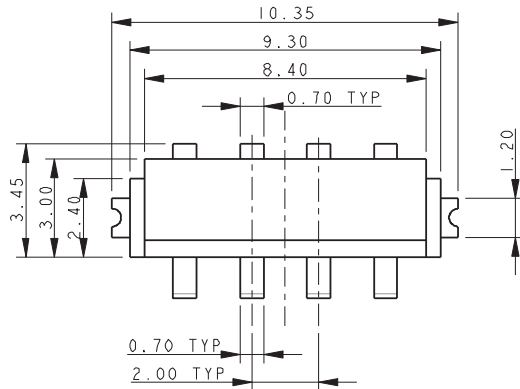
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Vertical Mate Connector 2.0mm Pitch

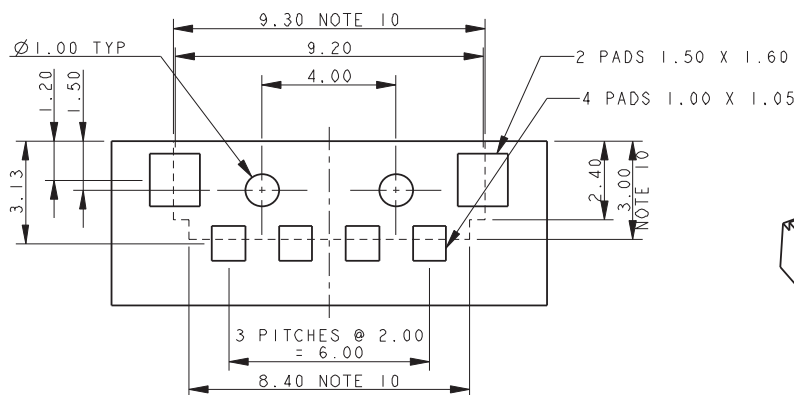
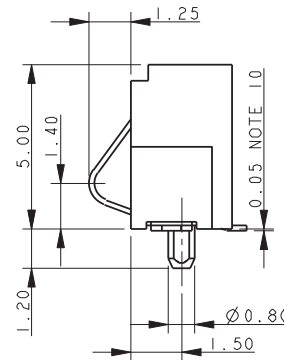
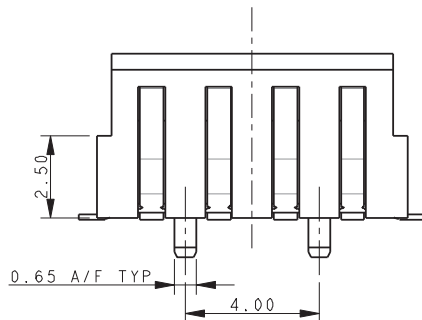
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4 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS

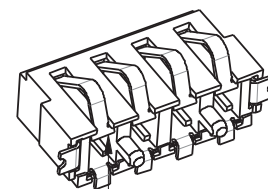


0.05-0.55
OPERATING NOSE HEIGHT
SEE ALSO SHEET 14

DEFLECTED CONTACT



SUGGESTED PCB LAYOUT



CONTACT NOSE RETAINED
ANTI SNAG FEATURE

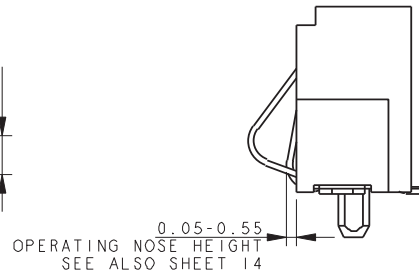
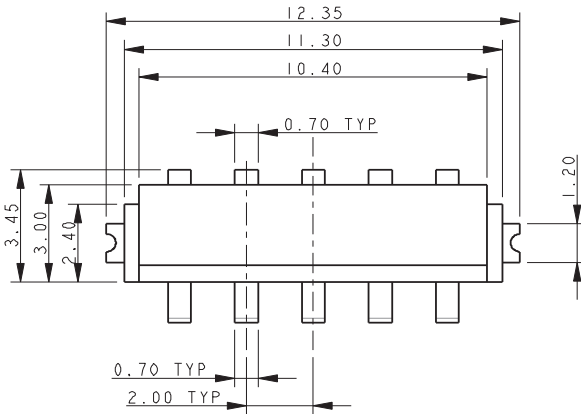
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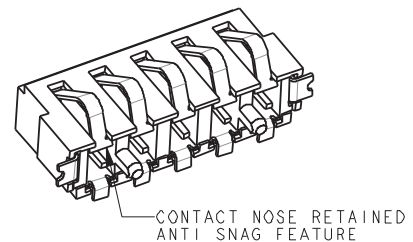
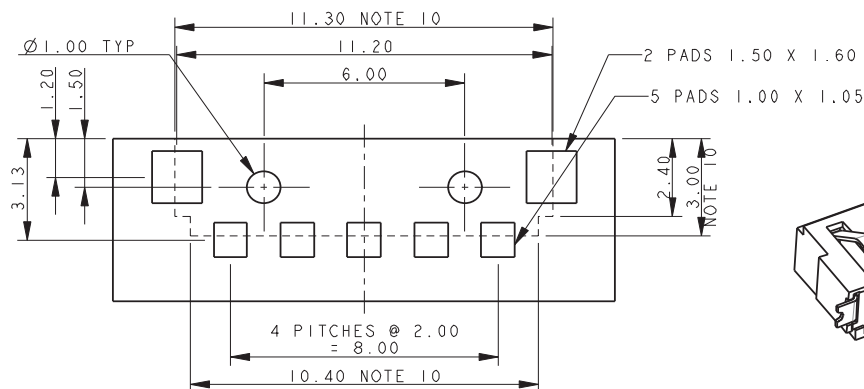
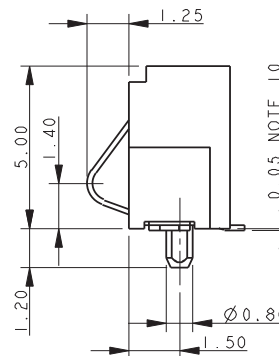
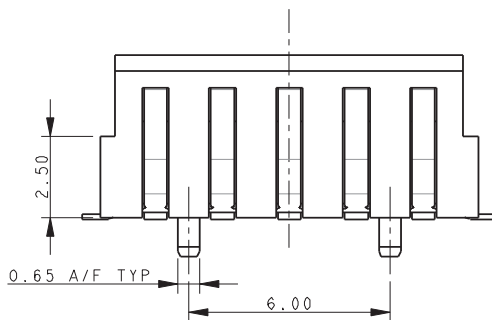
Vertical Mate Connector 2.0mm Pitch

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5 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

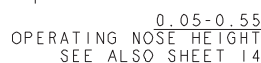
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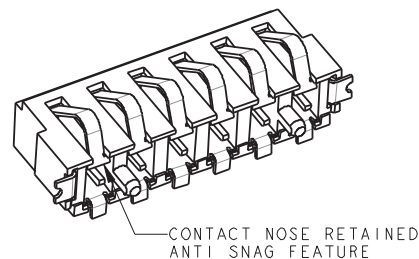
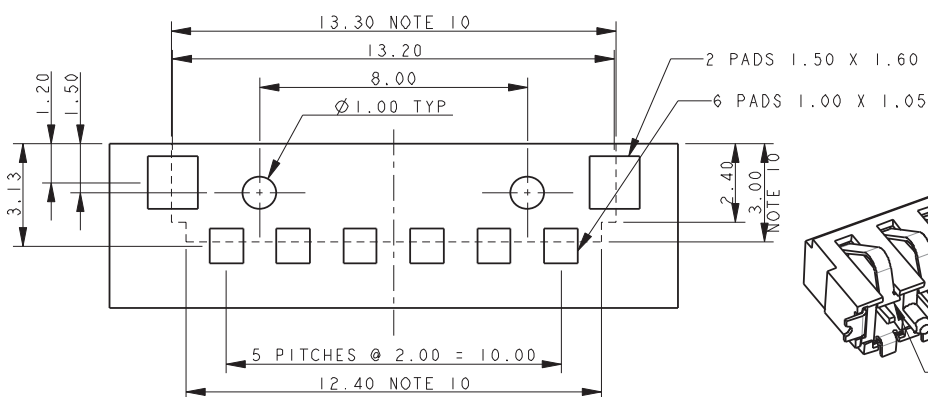
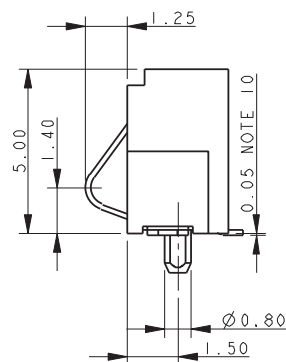
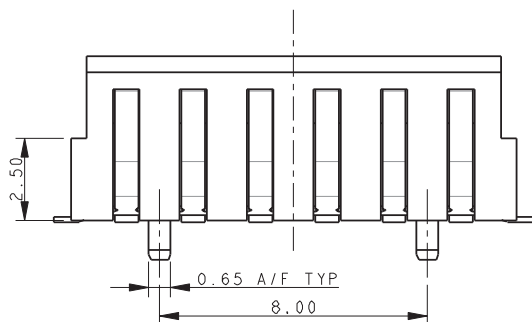
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Technical drawing of a rectangular component with the following dimensions:

- Total width: 14.35
- Width excluding end features: 13.30
- Width of central section: 12.40
- Radius of end features: 0.70 TYP
- Total height: 3.45
- Height of top flange: 3.00
- Height of bottom flange: 2.40
- Radius of bottom corners: 0.70 TYP
- Distance from centerline to bottom corner radius: 2.00 TYP
- Dimension at right end: 1.20
- Label at right end: OPT



DEFLECTED CONTACT



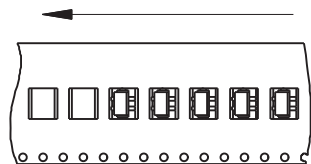
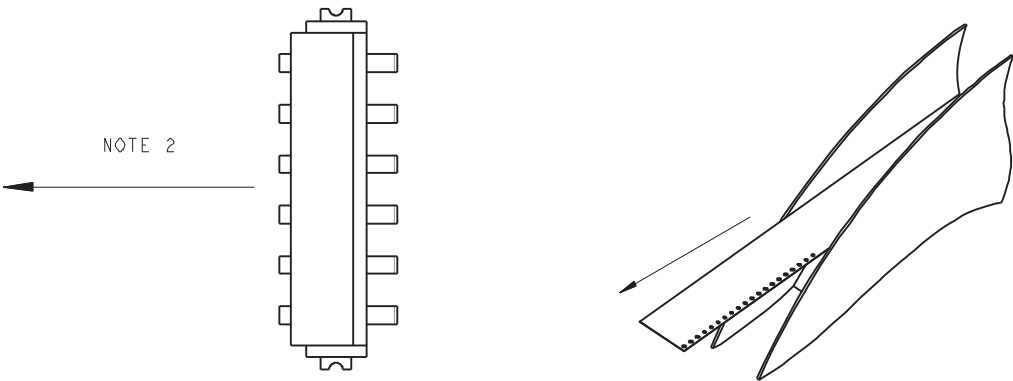
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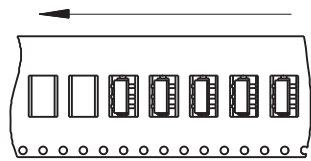
Vertical Mate Connector 2.0mm Pitch

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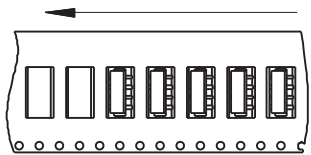
PACKING DETAILS



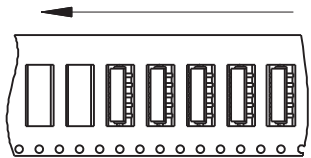
No of Ways	2
REEL QTY	100 without Boss
TAPE WIDTH	24mm
POCKET PITCH	8mm



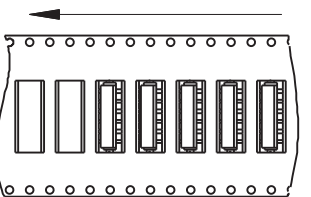
No of Ways	3
REEL QTY	100 without Boss
TAPE WIDTH	24mm
POCKET PITCH	8mm



No of Ways	4
REEL QTY	100 without Boss
TAPE WIDTH	24mm
POCKET PITCH	8mm



No of Ways	5
REEL QTY	100 without Boss
TAPE WIDTH	24mm
POCKET PITCH	8mm



No of Ways	6
REEL QTY	100 without Boss
TAPE WIDTH	24mm
POCKET PITCH	8mm

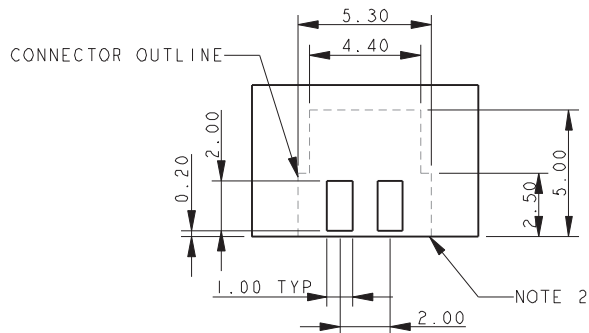
NOTES:
1. PARTS TO BE PACKED ON 330MM DIAMETER REELS.
2. COMPONENT ORIENTATION SHOWN.

Vertical Mate Connector 2.0mm Pitch

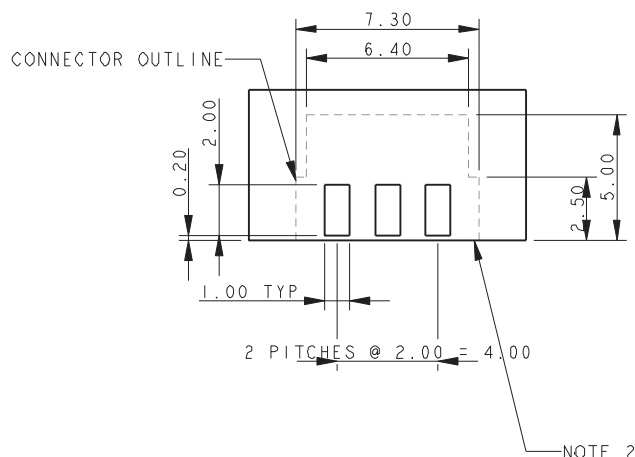
9155-800

2MM PITCH RIGHT ANGLE – MATING PADS

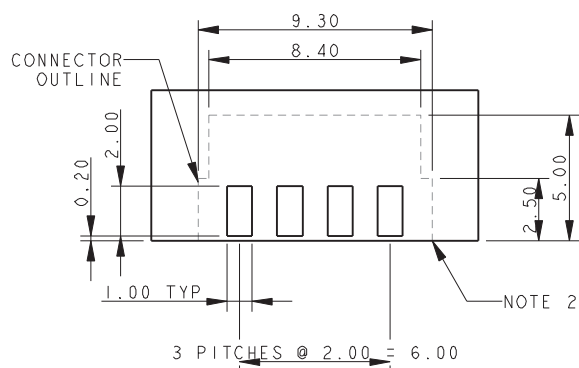
2 WAY – MATING PADS



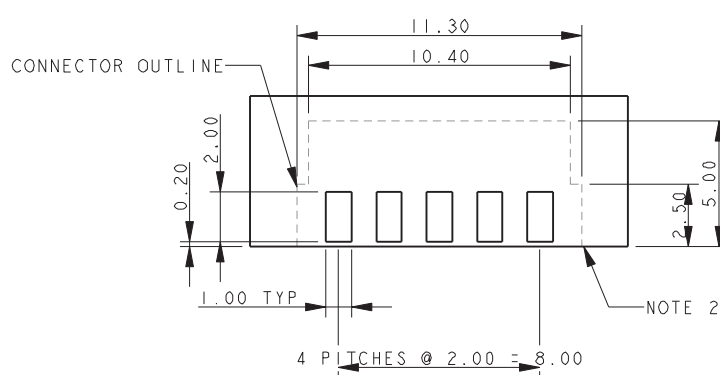
3 WAY – MATING PADS



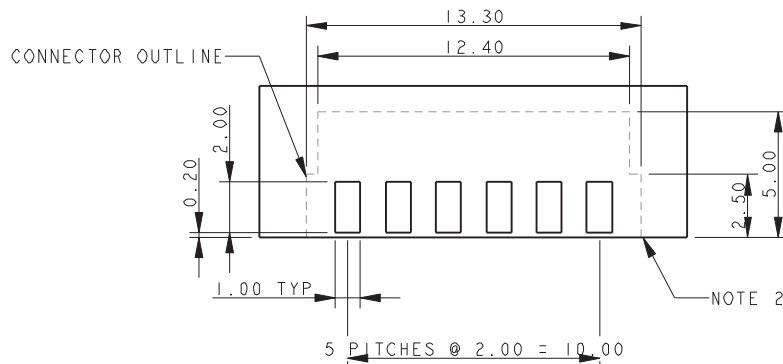
4 WAY – MATING PADS



5 WAY – MATING PADS



6 WAY – MATING PADS



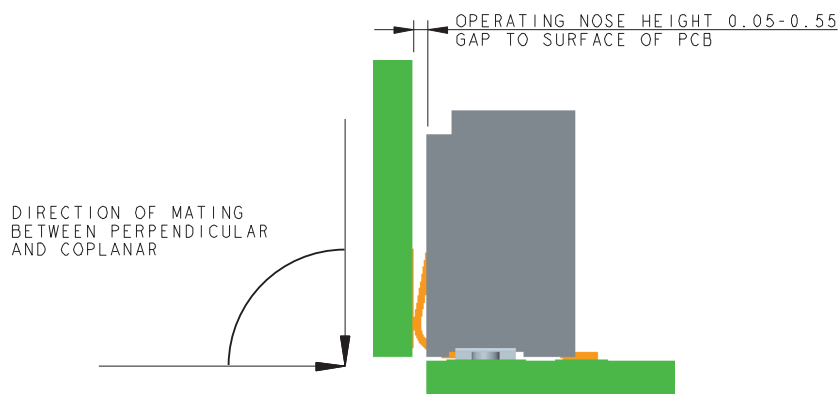
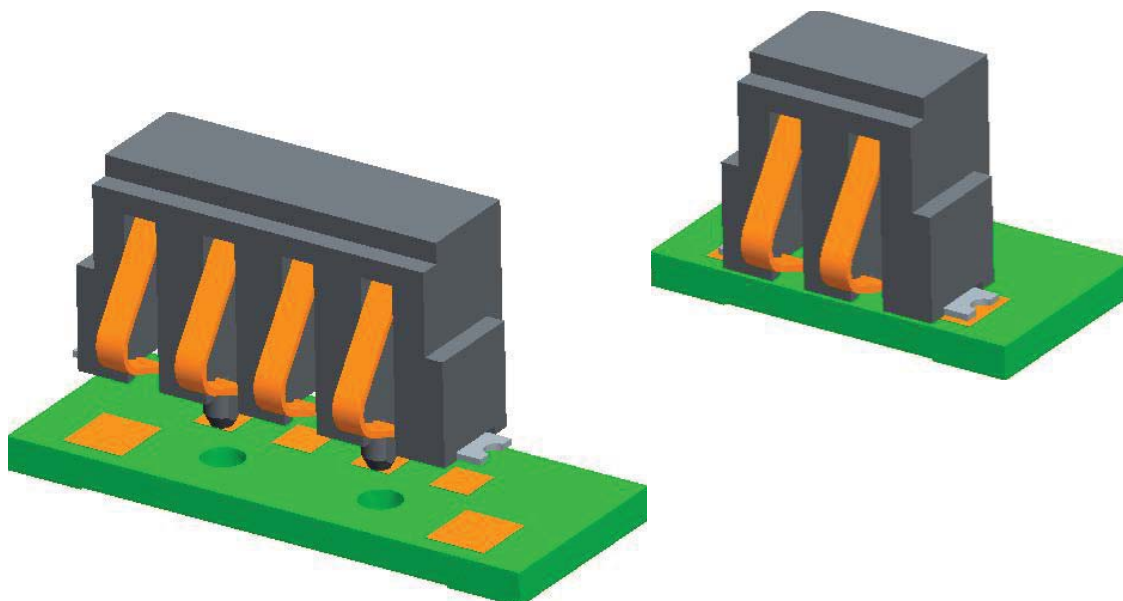
NOTES:

1. SUGGESTED MATING PADS FOR RIGHT ANGLE BATTERY CONNECTOR.
2. TOP SURFACE OF SMT PCB/BASE OF CONNECTOR.
3. PREFERRED PLATING ON PADS, GOLD OVER NICKEL.

Vertical Mate Connector 2.0mm Pitch

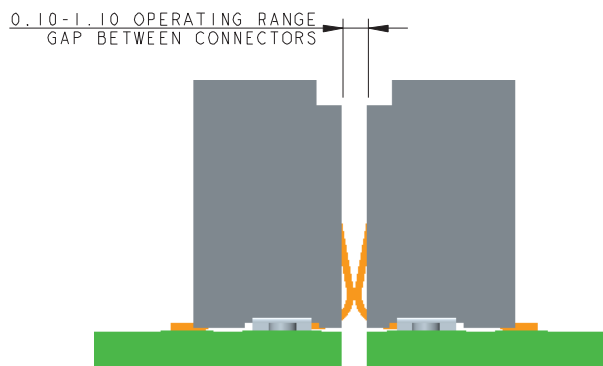
9155-800

2MM PITCH RIGHT ANGLE CONNECTOR



BOARD TO BOARD/COMPONENT

(REFER TO APPLICATION NOTES 201-01-205)



CONNECTOR TO CONNECTOR

(REFER TO APPLICATION NOTES 201-01-205)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.