Standard 2.5mm Pitch 9155-000







ELECTRICAL

- Current Rating: 3 Amp / Contact
- Voltage Rating: 125 VAC

The standard battery connector is specifically designed for mobile equipment.

The connectors are available in 3, 4 and 5 contact positions all on a 2.50mm pitch. The insulator height provides a 3mm spacing, with various contact nose heights from 1.20mm to 2.60mm, to provide spacing options to the end user.

All contacts are stamped and are rated to 3A, with Gold plating. Parts are supplied in tape and reel for automatic pick and place. Optional retaining brackets are available to provide greater strength when connected to the PCB.

Whatever your requirements, the 9155 series Battery Connector can also be customized to suit your applications.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- PMRIndustrial

ENVIRONMENTAL

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

FEATURES AND BENEFITS

- · Suitable for 5000 mechanical cycles.
- Variety of contact heights offered to suit different mechanical designs.
- · Connectors can be end to end stackable.
- · RoHS Compliant available.

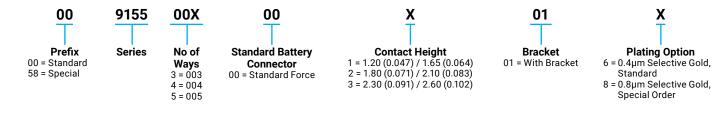
MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles



HOW TO ORDER

STANDARD

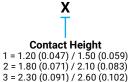


REDUCED NOSE



	05	
Standa	r	d Batte
Connector		
05 = Re	du	iced No









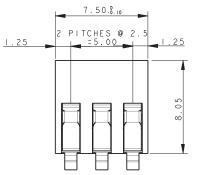
Plating Option

- 6 = 0.4μm Selective Gold, Standard 8 = 0.8μm Selective Gold,
 - Special Order

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Standard 2.5mm Pitch 9155-000





3 WAY BATTERY CONNECTOR

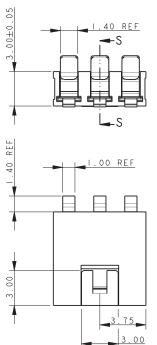
NOTES:

<u>05</u> ′P

00 10.10

0

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
- GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED. 2.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 6.
- INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-O. COLOR BLACK. 4.
- CONTACT MATERIAL: BERYLLIUM COPPER. 5
- CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS. 6
- 7. BRACKET MATERIAL: PHOSPHOR BRONZE.
- 8. BRACKET PLATING: PURE TIN OVER NICKEL.



PCB BOARD LAYOUT

PAD 1.50 X (3 POSN'S)

Ι.50

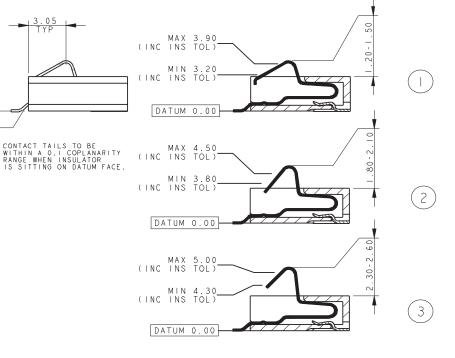
2.50

. 95

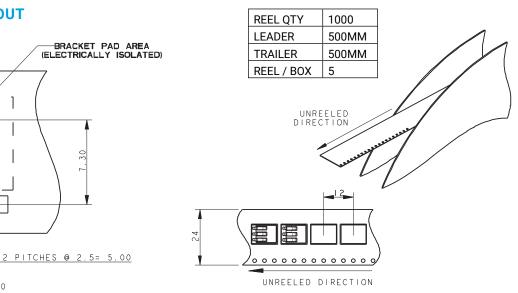
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60

MATING CONDITIONS



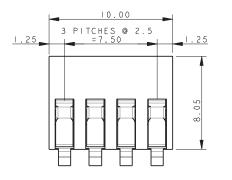
PACKING DETAILS



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Standard 2.5mm Pitch 9155-000



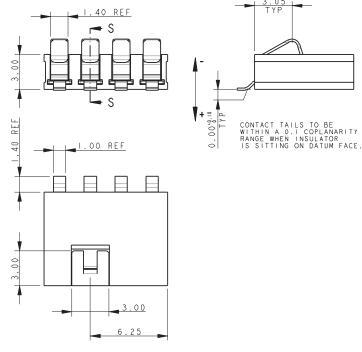


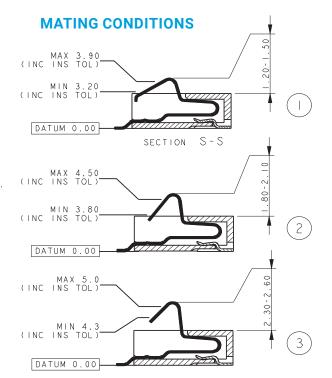
4 WAY BATTERY CONNECTOR

NOTES:

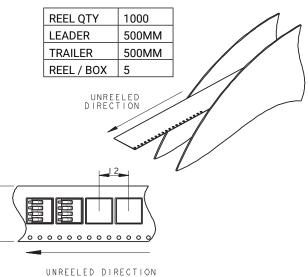
0.5

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
- 2. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 6.
- 4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-O. COLOR BLACK.
- 5. CONTACT MATERIAL: BERYLLIUM COPPER.
- 6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
- 7. BRACKET MATERIAL: PHOSPHOR BRONZE.
- 8. BRACKET PLATING: PURE TIN OVER NICKEL

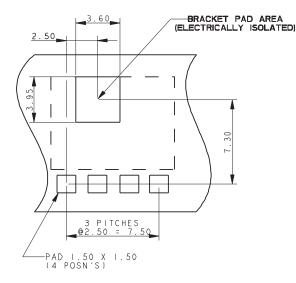




PACKING DETAILS



PCB BOARD LAYOUT



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24

Standard 2.5mm Pitch 9155-000

. 25

12.50

4 PITCHES @ 2.5 = 10.00





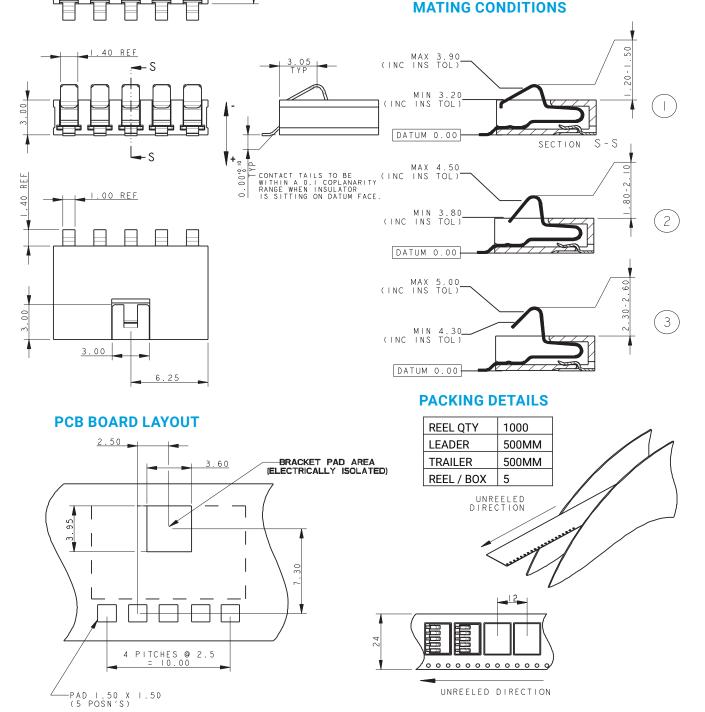
NOTES:

1.25

05

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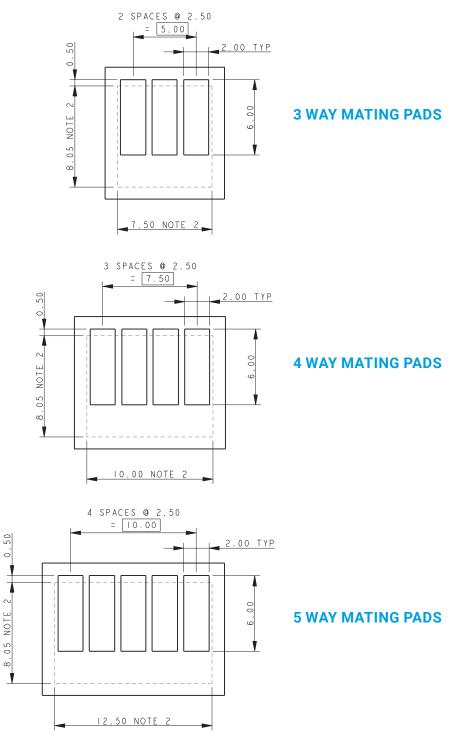
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
- 2. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 6.
- 4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-O. COLOR BLACK.
- 5. CONTACT MATERIAL: BERYLLIUM COPPER.
- 6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
- 7. BRACKET MATERIAL: PHOSPHOR BRONZE.
- 8. BRACKET PLATING: PURE TIN OVER NICKEL



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STANDARD BATTERY – MATING PADS



NOTES:

- 1. SUGGESTED MATING PADS FOR STANDARD BATTERY CONNECTORS.
- 2. OUTLINE OF CONNECTOR.
- 3. PREFERED PLATING ON PADS GOLD OVER NICKEL.
- 4. PAD LENGTH MAY REQUIRE ADJUSTMENT OF MATCH THE CUSTOMERS ASSEMBLY.
- 5. REFERENCE DIMENSIONS.

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Standard 2.5mm Pitch 9155-000

25

7.50

= 5

PITCHES @ 2.5

0.0

25



3 WAY BATTERY CONNECTOR REDUCED NOSE

NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
 - GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED. 2.
 - 3. FOR MATING PAD DETAILS REFER TO PAGE 9.
 - INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-O. COLOR BLACK. 4.
- 5. CONTACT MATERIAL: BERYLLIUM COPPER. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS. 6 05 BRACKET MATERIAL: PHOSPHOR BRONZE. 7. . . 8. BRACKET PLATING: PURE TIN OVER NICKEL. MATING CONDITIONS 20 75 REE <u>2.50</u> TYP .40 REF MAX 3.90 (INC INS TOL) 20-1 00 Δ ď MIN 3.20 (INC INS TOL) 0.0 10 -DATUM 0.00 Α SECTION A - A 0 <u>; 05</u> YP CONTACT TAILS TO BE WITHIN A O.I COPLANARITY RANGE WHEN INSULATOR IS SITTING ON DATUM FACE. REF MAX 4.50 INS TOL) 80-2 (INC 50 MIN 3.80 (INC INS TOL) 0.80 REF 2 000 DATUM 0.00 00 <u>(20</u> YP 60 'n MAX 5.00 (INC INS TOL) .00 \sim 30-MIN 4.30 (INC INS TOL) 3 DATUM 0.00 3.75 3.00 **PACKING DETAILS PCB BOARD LAYOUT** REEL QTY 1000 LEADER 500MM 60 BRACKET PAD AREA 500MM TRAILER (ELECTRICALLY ISOLATED) 2.50 REEL / BOX 5 A 95, UNREELED DIRECTION ŝ 30

2 PITCHES @ 2.5= 5.00

PAD 1.50 X (3 POSN'S)

Ι.50

UNREELED DIRECTION

0 0 0 0 0 0 0 0 0 0

0

o

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Standard 2.5mm Pitch 9155-000

10.00

2 5

0.5

8

PITCHES @ 2.5 =7.50

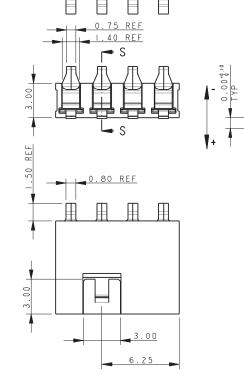
3



4 WAY BATTERY CONNECTOR REDUCED NOSE



- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
- 2. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 9.
- 4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-O. COLOR BLACK.
- 5. CONTACT MATERIAL: BERYLLIUM COPPER.
- 6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
- 7. BRACKET MATERIAL: PHOSPHOR BRONZE.
- 8. BRACKET PLATING: PURE TIN OVER NICKEL



PCB BOARD LAYOUT

.60

3 PITCHES @2.50 = 7.50

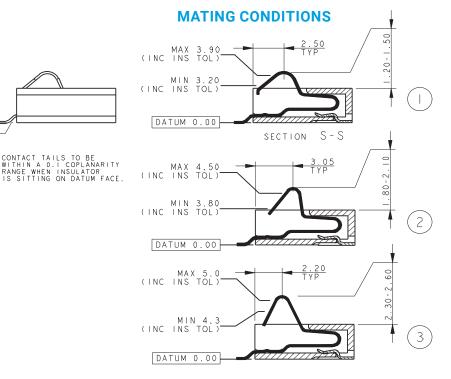
-PAD 1.50 X 1.50 (4 POSNÍS)

2.50

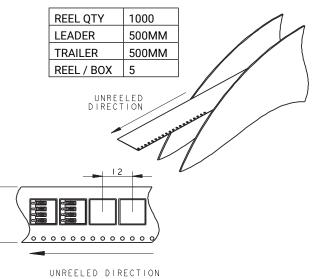
95

BRACKET PAD AREA (ELECTRICALLY ISOLATED)

7.30



PACKING DETAILS

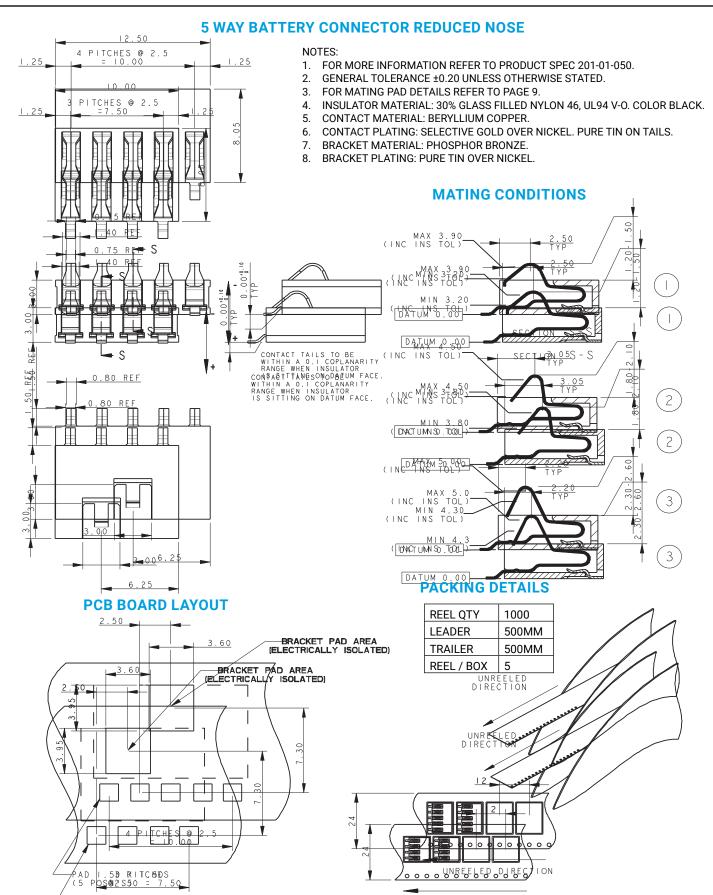


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Standard 2.5mm Pitch 9155-000





PAD I 50 KUCERE The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or (4 POSN'S) KUCE available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

3.00 |

2

Standard 2.5mm Pitch 9155-000

STANDARD BATTERY – MATING PADS 10.00 3 PITCHES @ 2.5 25 2 SPACES @ 2.50 = 5.00 50 1.60 TYP 0 05 . 00 **3 WAY MATING PADS** NOTE Q 05 REF 50 <u>.50</u> TYP 40 REF 8. 3.90 TOL) MAX S (INC¹ 20-0.00¹⁰1 MIN 3.20 TOL) (INC 7.50 NOTE 2 DATUM 0.00 S - S S SECTION 3 SPACES @ 2.50 ÷ CONTACT TAILS TO BE 7.50 WITHIN A D. COPLAMARTTY RANGE WHEN INSULATOR IS SITTING ON DATUM FACE. 2 <u>3.05</u> TYP MAX 4.50 11NS© OT OTLY)P 0.80 REF 80м 81 \square -I-N4 TO \square ١S 2 \sim W MATTE PADS NOTE DATU M 0.900 2.20 TYP 60 05 ΑX 30-2. ~ IN 4. S TOL) N NS 3 3.00 10.00 NOTE TUM 0.00 2.5 4 SPACES @ 2.50 = 10.00 .60 TYP 50 C BRACKET PAD AREA 3.60 (ELEGTRICAL 2.50 00 5 WAY MATING ADS ي No 95 UNREELED DIRECTION 90 12.50 NOTE 1 NOTES: 1. SUGGESTED MATING HADS FOR STANDARD BATTERY CONNECTORS. PITCHES 3 @2 5<u>0</u> OUTLINE OF CONNECTOR. 50 2. PREFERED PLATING ON PADS GOLD OVER NICKEL. 3. PAD 1.50 X 1.50 (4 POSN'S) PAD LENGTH MAY REQUIRE ADJUSTMENT OF MATCH THE CUSTOMERS ASSEMBLY. 4. REFERENCE DIMENSIONS. 5.

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