

# C&K 1000 Series

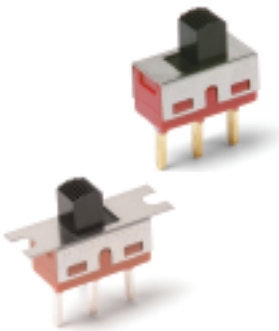
## Miniature Slide Switches

### Features/Benefits

- **Variety of actuators and terminations**
- **Panel mount tabs available**
- **Epoxy terminal seal—compatible with bottom-wash cleaning**
- **RoHS compliant**

### Typical Applications

- **Test & measurement equipment**
- **Telecommunications**
- **Computer & peripherals**



Models Available

### Specifications

**CONTACT RATING:** B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 6 AMPS @ 120 V AC or 28 V DC, 3 AMPS @ 250 V AC. See page J-15 for additional ratings.

**ELECTRICAL LIFE:** 100,000 make-and-break cycles at full load on models with B, K or P contact material; 40,000 cycles on models with G, Q, L, M, S or R contact material.

**CONTACT RESISTANCE:** Below 10 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:**  $10^9 \Omega$  min.

**DIELECTRIC STRENGTH:** 1,000 Vrms min. @ sea level.

**OPERATING TEMPERATURE:** -30°C to 65°C

**SOLDERABILITY:** Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

### Materials

**CASE:** diallyl phthalate (DAP), (UL 94V-0).

**ACTUATOR:** Nylon, black, standard.

**HOUSING:** Stainless steel.

**SWITCH SUPPORT:** Brass or steel, matte-tin plated.

**END CONTACTS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page I-16 for additional contact materials.

**CENTER CONTACT & ALL TERMINALS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page J-15 for additional contact materials.

**TERMINAL SEAL:** Epoxy. Refer to Soldering and Cleaning in Technical Data chapter

**NOTE:** Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: [www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-11 through J-15. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all “bottom-wash” PCB cleaning methods.

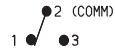
|                                                                                                                                              |                                                                    |                                                                                                                                                                      |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                |                                                                        |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Switch Function</b>                                                                                                                       | <b>Mounting Style</b>                                              | <b>Actuator</b>                                                                                                                                                      | <b>Terminations</b>                                                                                                                                                                                                                            | <b>Contact Material</b>                                                                                                                                                                                                                                        | <b>Seal</b>                                                            | <b>Actuator Color</b>                                             |
| <b>1101</b> SP On-None-On<br><b>1103</b> SP On-Off-On<br><b>1108</b> SP Mom-None-On<br><b>1201</b> DP On-None-On<br><b>1203</b> DP On-Off-On | <b>M2</b> PC mount without tabs<br><b>M1</b> Panel mount with tabs | <b>S3</b> .200" high<br><b>S1</b> .040" high<br><b>S2</b> .140" high<br><b>S4</b> .285" high<br><b>S5</b> .370" high<br><b>S6</b> .485" high<br><b>T3</b> .200" high | <b>A</b> Right angle, PC thru-hole<br><b>C</b> PC Thru-hole<br><b>AV2</b> Vertical right angle, PC thru-hole<br><b>Z</b> Solder lug<br><b>V3</b> V-bracket<br><b>V4</b> V-bracket<br><b>W</b> .750" long, wire wrap<br><b>Z3</b> Quick connect | <b>B</b> Gold<br><b>Q</b> Silver<br><b>K</b> Gold, tin-lead<br><b>M</b> Silver, tin-lead<br><b>G</b> Gold over silver<br><b>L</b> Gold over silver, tin-lead<br><b>P</b> Gold, matte-tin<br><b>S</b> Silver, matte-tin<br><b>R</b> Gold over silver, matte-tin | <b>E</b> Epoxy<br><b>D</b> No epoxy seal<br><b>I</b> Epoxy potted base | <b>2</b> Black<br><b>1</b> White<br><b>3</b> Red<br><b>7</b> Blue |



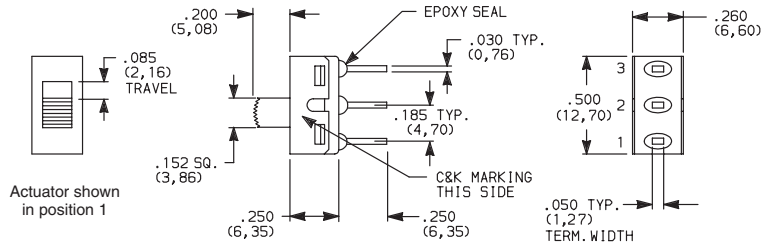
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

# C&K 1000 Series Miniature Slide Switches

## SWITCH FUNCTION

| NO. POLES | MODEL NO. | SWITCH FUNCTION                                                                   |                                                                                   |                                                                                   | CONNECTED TERMINALS                                                               |                                                                                   |                                                                                     | SCHEMATIC                                                                           |
|-----------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |           | POS. 1                                                                            | POS. 2                                                                            | POS. 3                                                                            | POS. 1                                                                            | POS. 2                                                                            | POS. 3                                                                              |                                                                                     |
|           |           |  |  |  |  |  |  |                                                                                     |
| SP        | 1101      | ON                                                                                | NONE                                                                              | ON                                                                                | 1-2                                                                               | N/A                                                                               | 2-3                                                                                 |  |
|           | 1103      | ON                                                                                | OFF                                                                               | ON                                                                                |                                                                                   | OPEN                                                                              |                                                                                     |                                                                                     |
|           | 1108      | MOM.                                                                              | NONE                                                                              | ON                                                                                |                                                                                   | N/A                                                                               |                                                                                     |                                                                                     |
| SPDT      |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

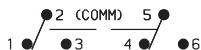
**SPDT**



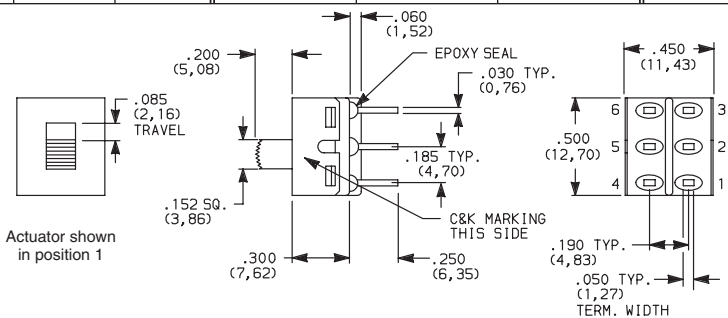
Actuator shown in position 1

Part number shown: 1101M2S3CQE2

Terminal Nos. For Reference Only

|    |      |    |      |    |         |      |         |      |                                                                                     |
|----|------|----|------|----|---------|------|---------|------|-------------------------------------------------------------------------------------|
| DP | 1201 | ON | NONE | ON | 2-1,5-4 | OPEN | 2-3,5-6 | DPDT |  |
|    | 1203 | ON | OFF  | ON |         |      |         |      |                                                                                     |

**DPDT**



Actuator shown in position 1

Part number shown: 1201M2S3CQE2

Terminal Nos. For Reference Only

MOM. = Momentary

All models   with all options when ordered with G, L, M, S or R contact material.

## MOUNTING STYLE

**M2** PC MOUNTING WITHOUT TABS

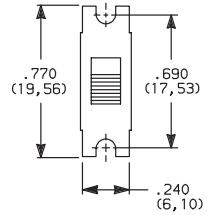


**NOTE:** Available with A, AV2, C, V3, V4, W terminations only.

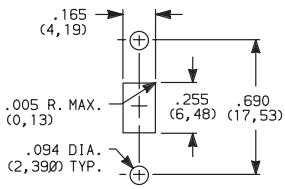
**M1** PANEL MOUNTING WITH TABS



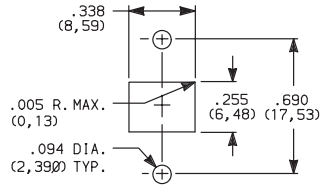
**NOTE:** Available with C, W, Z, Z3 terminations only. No mounting hardware supplied.



### PANEL MOUNTING



All actuators except T3.  
Single pole



For T3 actuator only.  
Double pole



Dimensions are shown: Inch (mm)  
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# C&K 1000 Series Miniature Slide Switches

## ACTUATOR

ACTUATOR COLOR

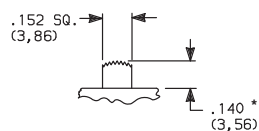
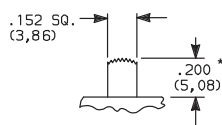
ACTUATOR

**S3** .200" HIGH

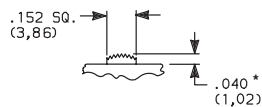
**S2** .140" HIGH

**S1** .040" HIGH

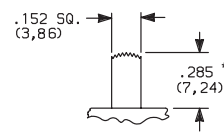
**S4** .285" HIGH



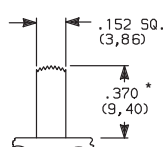
110X models only.



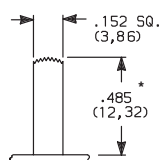
120X models only.



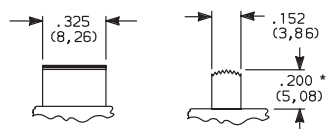
**S5** .370" HIGH



**S6** .485" HIGH



**T3** .200" HIGH



120X models only.

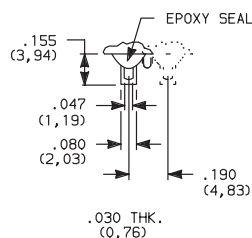
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| <b>2</b>    | BLACK          |
| <b>1</b>    | WHITE          |
| <b>3</b>    | RED            |
| <b>7</b>    | BLUE           |
| <b>9</b>    | GRAY           |

Other colors available, consult Customer Service Center.

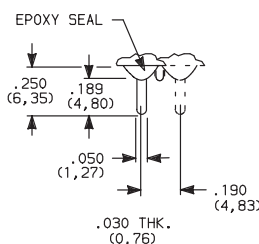
\* Subtract .014 (0,36) from actuator height, all models with A, AV2, V3, V4 terminations.

## TERMINATIONS

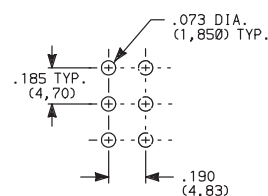
**Z** SOLDER LUG



**C** PC THRU-HOLE



PC MOUNTING

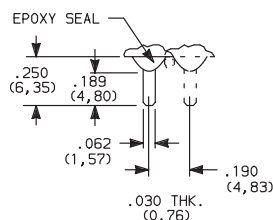


**SPDT & DPDT**

Not available with K, L, M, P, S or R contact materials.

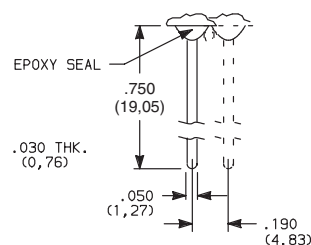
**SPDT & DPDT**

**Z3** QUICK CONNECT



Not available with K, L, M, P, S or R contact materials. Mating quick connector available; order part number 530100000, page J-15.

**W** WIRE WRAP



**SPDT & DPDT**



**ITT**

Cannon

**SPDT & DPDT**



Third Angle Projection

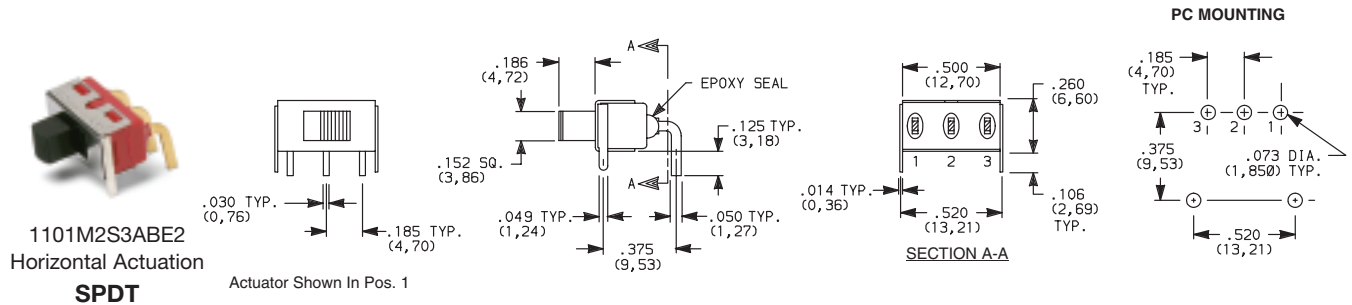
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

[www.ittcannon.com](http://www.ittcannon.com)

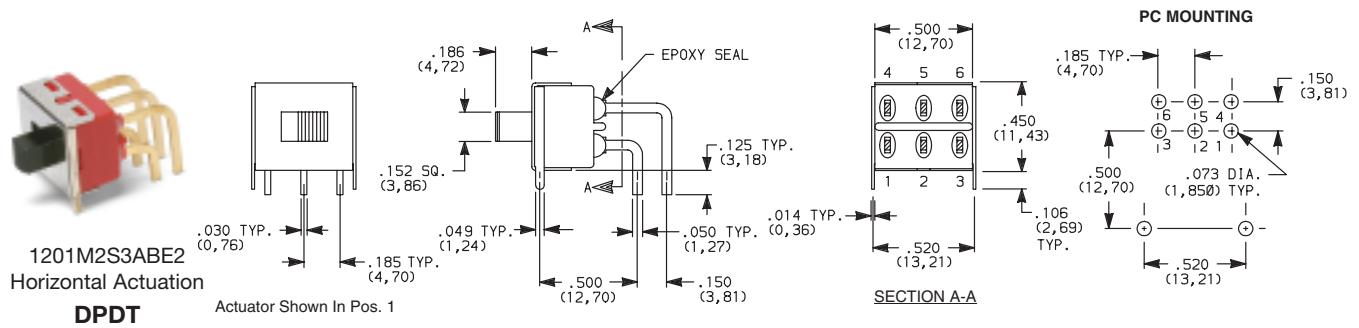
# C&K 1000 Series Miniature Slide Switches

## TERMINATIONS

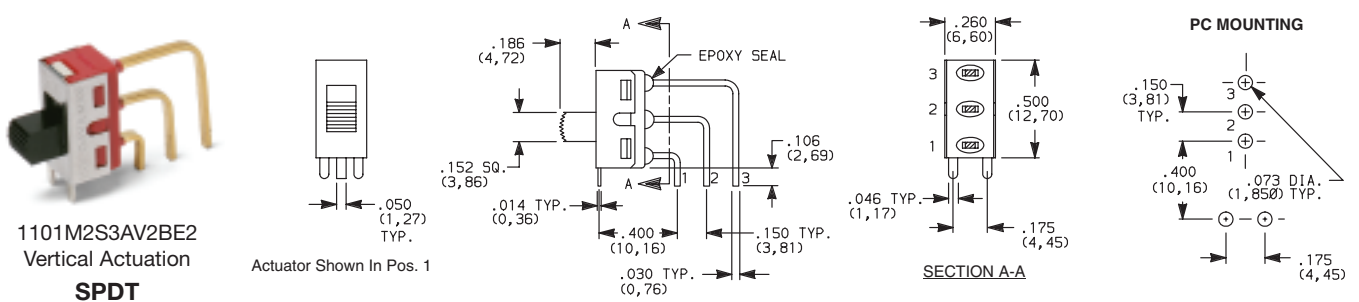
### A RIGHT ANGLE, PC THRU-HOLE



### A RIGHT ANGLE, PC THRU-HOLE



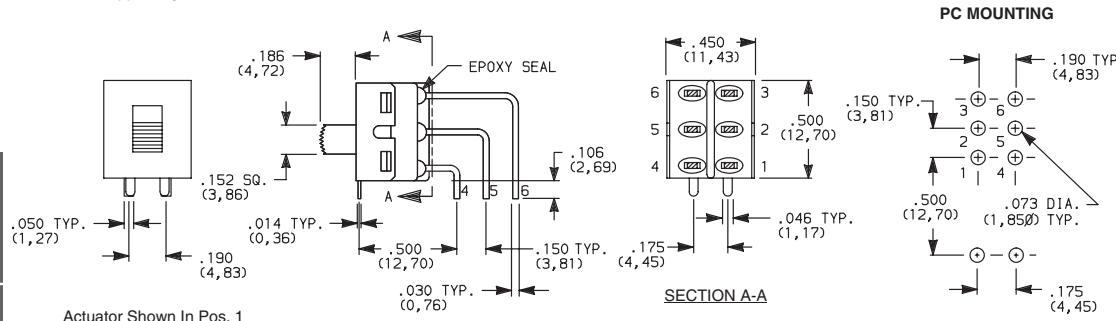
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



# C&K 1000 Series Miniature Slide Switches

## TERMINATIONS

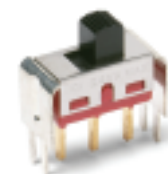
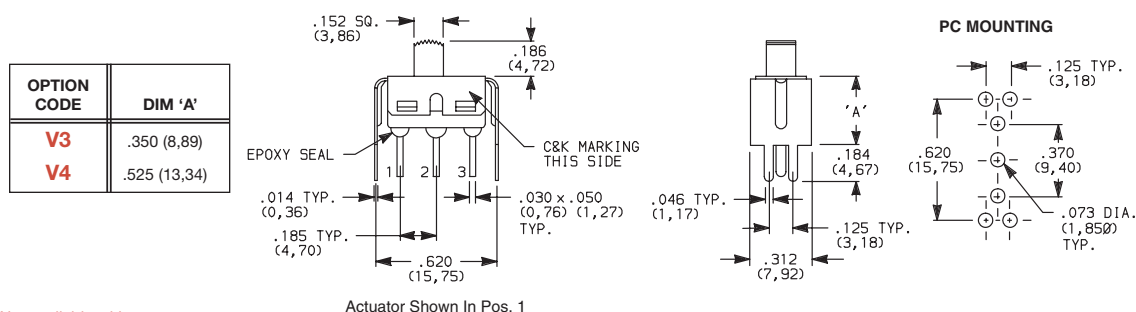
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



1201M2S3AV2BE2  
Vertical Actuation  
DPDT

Not available with M1 mounting style, I seal option.  
Terminal bend radii and lead-in manufacturing option.

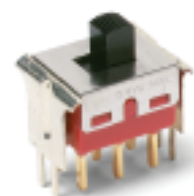
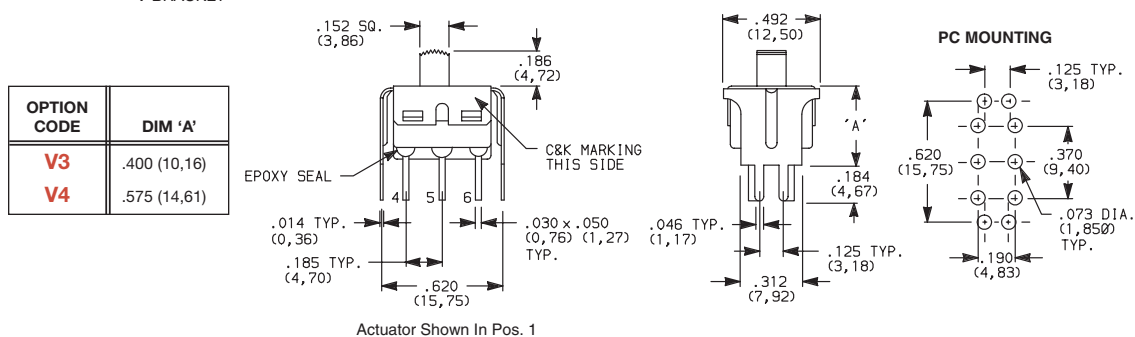
**V3, V4** VERTICAL MOUNT,  
V-BRACKET



1101M2S3\_BE2  
SPDT

Not available with  
M1 mounting style and I seal.

**V3, V4** VERTICAL MOUNT,  
V-BRACKET



1201M2S3\_BE2  
DPDT

Not available with  
M1 mounting style and I seal.



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

www.ittcannon.com

# C&K 1000 Series Miniature Slide Switches

## CONTACT MATERIAL

| OPTION CODE | RoHS COMPLIANT | RoHS COMPLIANT | CONTACT MATERIAL                   | TERMINAL PLATING       | RATINGS                           |                                                                                                |
|-------------|----------------|----------------|------------------------------------|------------------------|-----------------------------------|------------------------------------------------------------------------------------------------|
| <b>B</b>    | YES            | YES            | GOLD <sup>1</sup>                  | GOLD <sup>3</sup>      | LOW LEVEL/<br>DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                               |
| <b>K</b>    | NO             | YES            |                                    | TIN-LEAD <sup>6</sup>  |                                   |                                                                                                |
| <b>P</b>    | YES            | YES            |                                    | MATTE-TIN <sup>7</sup> |                                   |                                                                                                |
| <b>Q</b>    | YES            | YES            | SILVER <sup>4,5</sup>              | GOLD <sup>3</sup>      | POWER                             | 6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.                                               |
| <b>M</b>    | NO             | YES            |                                    | TIN-LEAD <sup>6</sup>  |                                   |                                                                                                |
| <b>S</b>    | YES            | YES            |                                    | MATTE-TIN <sup>7</sup> |                                   |                                                                                                |
| <b>G</b>    | YES            | YES            | GOLD OVER<br>SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | 0.4 VA MAX @ 20 V AC OR DC MAX OR 6 AMPS @ 120 V AC OR<br>0.4 MAX. 28 V DC; 3 AMPS @ 250 V AC. |
| <b>L</b>    | NO             | YES            |                                    | TIN-LEAD <sup>6</sup>  |                                   |                                                                                                |
| <b>R</b>    | YES            | YES            |                                    | MATTE-TIN <sup>7</sup> |                                   |                                                                                                |

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

<sup>6</sup> TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

<sup>7</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

**NOTE:** Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: [www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

All models   with all options when ordered with G, L, M, Q, S or R contact material.

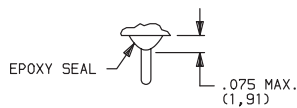
B contact material standard with all terminations except C, Z, Z3..

Q contact material standard with C, Z, Z3 terminations.

K, L, M, P, S or R contact materials not available with Z, Z3 terminations.

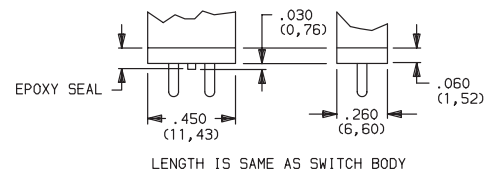
## SEAL

**E** EPOXY SEAL



**D** NO EPOXY SEAL

**I** EPOXY POTTED BASE



**NOTE:** Available with C, W, W3, Z, Z3 terminations only.

## AVAILABLE HARDWARE

Fits Z3 Termination  
female connector



PART NO.  
**530100000**

Available in loose pieces.



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



Slide



## О компании

ООО "ТрейдЭлектроникс" - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Наличие собственной эффективной системы логистики обеспечивает надежную поставку продукции по конкурентным ценам в точно указанные сроки.

Срок поставки со стоков в **Европе и Америке – от 3 до 14 дней.**

Срок поставки из **Азии – от 10 дней.**

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Предоставляем спец цены на элементы для создания инженерных сэмплов.

**Упорный труд, качественный результат дают нам право быть уверенными в себе и надежными для наших клиентов.**

### Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование

Наша организация особенно сильна в поставках модулей, микросхем, пассивных компонентов, ксайленсах (XC), EPF, EPM и силовой электроники.

Большой выбор предлагаемой продукции, различные виды оплаты и доставки, позволят Вам сэкономить время и получить максимум выгоды от сотрудничества с нами!

## Перечень производителей, продукцию которых мы поставляем на российский рынок





Trade Electronics.ru

гарантия бесперебойности производства и  
качества выпускаемой продукции

С удовольствием будем прорабатывать для Вас поставки всех необходимых компонентов по текущим запросам для скорейшего выявления групп элементов, по которым сотрудничество именно с нашей компанией будет для Вас максимально выгодным!

С уважением,

Менеджер отдела продаж ООО

«Трейд Электроникс»

Шишлаков Евгений

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manager28@tradeelectronics.ru

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