

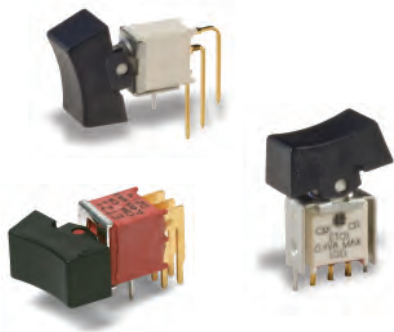
# ET Series Sealed Subminiature Rocker Switches

## Features/Benefits

- Sealed against solder and cleaning process contaminants
- Rocker, bushing & case—UL 94V-0
- Small footprint—saves space
- RoHS compliant

## Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



## Specifications

**CONTACT RATING:** B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: Copper alloy, silver plated. See page G-43 for additional ratings.

**ELECTRICAL LIFE:** ETX1 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

**CONTACT RESISTANCE:** Below 20 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 10<sup>9</sup>  $\Omega$  min.

**DIELECTRIC STRENGTH:** 1000 Vrms min. @ sea level.

**OPERATING TEMPERATURE:** -30°C to 85°C.

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

**PACKAGING:** Surface mount switches standard in tape and reel packaging, see page G-45 for drawings and reel information.

## Materials

**CASE & BUSHING:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0) or glass filled 4/6 nylon, flame retardant, heat stabilized (UL 94V-0).

**ACTUATOR:** Nylon, black standard. Internal o-ring seal standard with all actuators. SA surface mount: High temperature material, glass filled 46 nylon, flame retardant, heat stabilized (UL 94V-0).

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

**CONTACTS & TERMINALS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-43 for additional contact materials.

**TERMINAL SEAL:** Epoxy.

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

**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 G-40 thru G-44. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
| <b>Switch Function</b><br><b>ET01</b> SP On-None-On<br><b>ET02</b> SP Off-None-On<br><b>ET03</b> SP On-Off-On<br><b>ET05</b> SP Mom.-Off-Mom.<br><b>ET07</b> SP On-Off-Mom.<br><b>ET08</b> SP On-None-Mom.<br><b>ET21</b> DP On-None-On<br><b>ET27</b> DP On-Off-Mom.<br><b>ET28</b> DP On-None-Mom.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Actuator</b><br><b>J1</b> Rocker<br><b>J6</b> Rocker<br><br><b>Terminations</b><br><b>A</b> Right angle, PC thru-hole<br><b>AV</b> Vertical Right angle, PC thru-hole<br><b>C</b> PC Thru-hole<br><b>V3</b> V-bracket<br><b>AV2</b> Vertical Right angle, PC thru-hole<br><b>SA</b> Right Angle Surface mount | <b>Contact Material</b><br><b>B</b> Gold<br><b>P</b> Gold, matte tin<br><b>Q</b> Silver<br><b>S</b> Silver, matte-tin<br><b>G</b> Gold over silver<br><b>R</b> Gold over silver, matte-tin<br><br><b>Seal</b><br><b>E</b> Epoxy<br><br><b>Actuator Color</b><br><b>2</b> Black<br><b>1</b> White<br><b>3</b> Red |



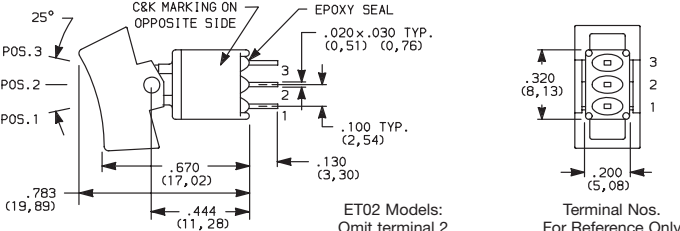
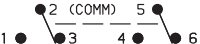
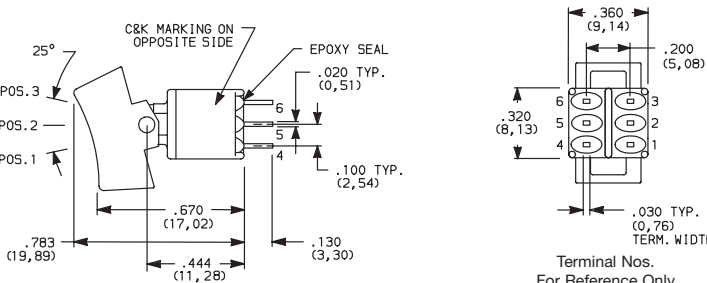
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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ET Series  
Sealed Subminiature Rocker Switches

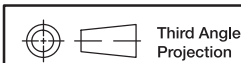
SWITCH FUNCTION

| NO. POLES                                                                                           | MODEL NO. | SWITCH FUNCTION                                                                   |                                                                                   |                                                                                   | CONNECTED TERMINALS                                                               |                                                                                   |                                                                                     | SCHEMATIC                                                                                |
|-----------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                     |           | POS. 1                                                                            | POS. 2                                                                            | POS. 3                                                                            | POS. 1                                                                            | POS. 2                                                                            | POS. 3                                                                              |                                                                                          |
|                                                                                                     |           |  |  |  |  |  |  |                                                                                          |
| SP                                                                                                  | ET01      | ON                                                                                | NONE                                                                              | ON                                                                                | 2-3                                                                               | N/A                                                                               | 2-1                                                                                 |       |
|                                                                                                     | ET03      | ON                                                                                | OFF                                                                               | ON                                                                                |                                                                                   |                                                                                   |                                                                                     |                                                                                          |
|                                                                                                     | ET05      | MOM.                                                                              | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                          |
|                                                                                                     | ET07      | ON                                                                                | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                          |
|                                                                                                     | ET08      | ON                                                                                | NONE                                                                              | MOM.                                                                              | N/A                                                                               |                                                                                   |                                                                                     |                                                                                          |
|                                                                                                     | ET02      | OFF                                                                               | NONE                                                                              | ON                                                                                | OPEN                                                                              | N/A                                                                               | 3-1                                                                                 | SPST  |
| <b>SPDT</b><br>   |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                          |
| DP                                                                                                  | ET21      | ON                                                                                | NONE                                                                              | ON                                                                                | 2-3,5-6                                                                           | N/A                                                                               | 2-1,5-4                                                                             |     |
|                                                                                                     | ET27      | ON                                                                                | OFF                                                                               | MOM.                                                                              |                                                                                   | OPEN                                                                              |                                                                                     |                                                                                          |
|                                                                                                     | ET28      | ON                                                                                | NONE                                                                              | MOM.                                                                              |                                                                                   | N/A                                                                               |                                                                                     |                                                                                          |
| <b>DPDT</b><br> |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                          |

MOM. = Momentary

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

Rocker



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

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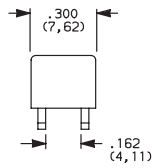
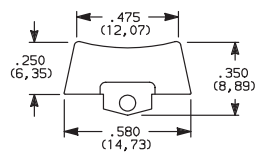
# ET Series Sealed Subminiature Rocker Switches

## ACTUATOR

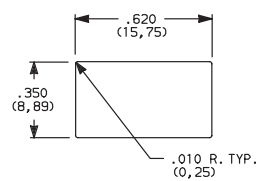
ACTUATOR COLOR

ACTUATOR

### J1 ROCKER

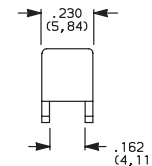
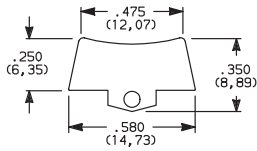


#### PANEL MOUNTING

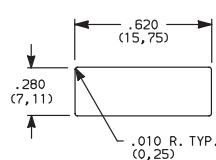


Available with all models except ET0X with A & SA & SA1 terminations.

### J6 ROCKER



#### PANEL MOUNTING



Standard with ET0X model with A & SA & SA1 terminations.

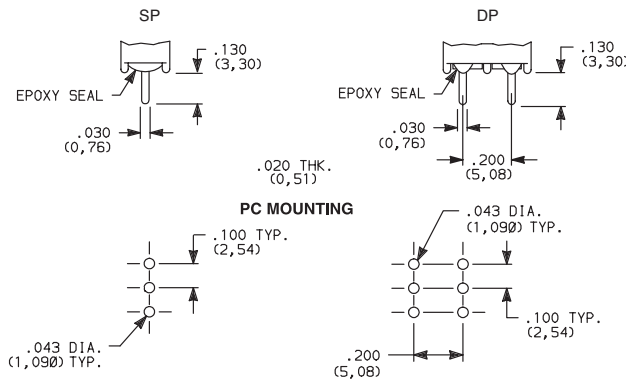
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

Actuators available separately, see page G-45. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Internal o-ring actuator seal standard.

## TERMINATIONS

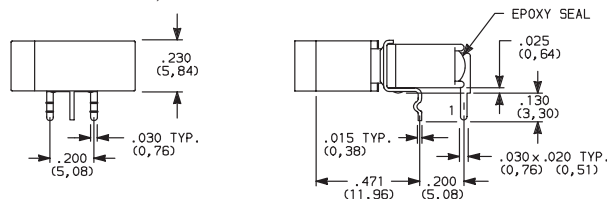
### C PC THRU-HOLE



ET02 Models: Omit center hole.

### SP & DP

#### A RIGHT ANGLE, PC THRU-HOLE

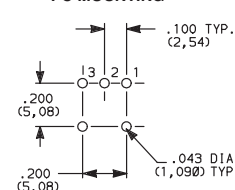


Actuator Shown In Pos. 1

Not available with ET02 model.

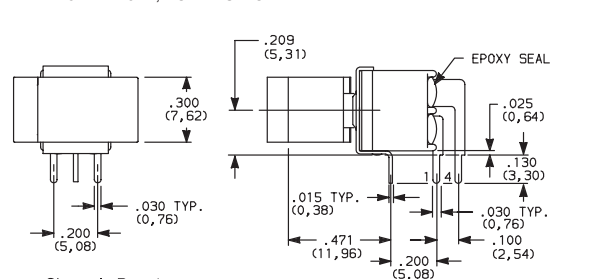
J6 actuator std. only on ET0X models with A terminations.

#### PC MOUNTING



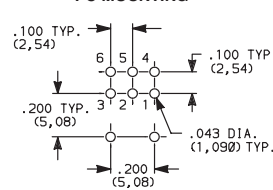
ET01J6ABE2  
Horizontal Actuation  
SPDT

#### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1

#### PC MOUNTING



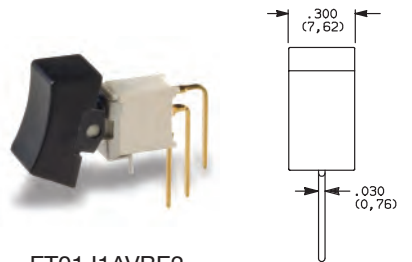
ET21J1ABE2  
Horizontal Actuation  
DPDT



# ET Series Sealed Subminiature Rocker Switches

## TERMINATIONS

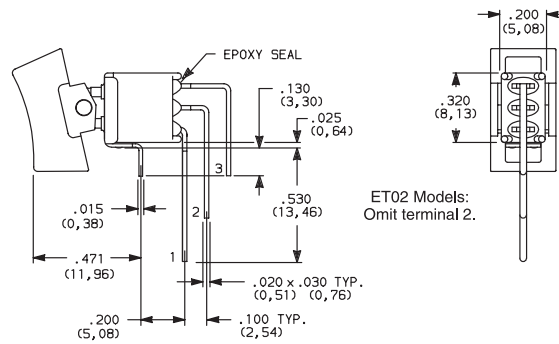
**AV** VERTICAL RIGHT ANGLE, PC THRU-HOLE



ET01J1AVBE2  
Vertical Actuation  
SPDT

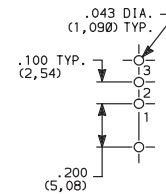
Actuator Shown In Pos. 1

**NOTE:** Terminal bend radii and lead-in manufacturing option.

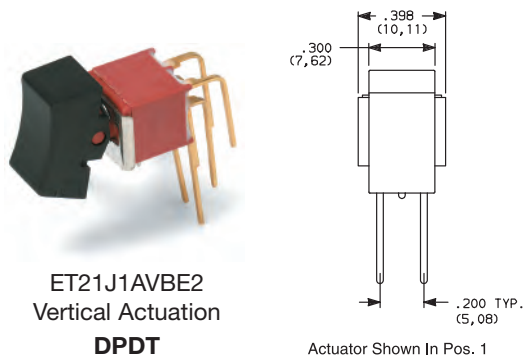


ET02 Models:  
Omit terminal 2.

### PC MOUNTING



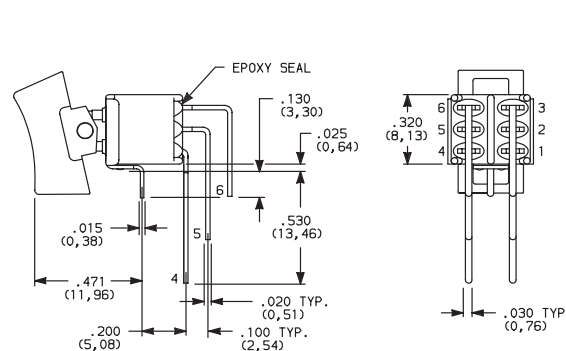
**AV** VERTICAL RIGHT ANGLE, PC THRU-HOLE



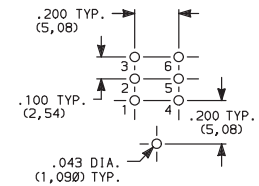
ET21J1AVBE2  
Vertical Actuation  
DPDT

Actuator Shown In Pos. 1

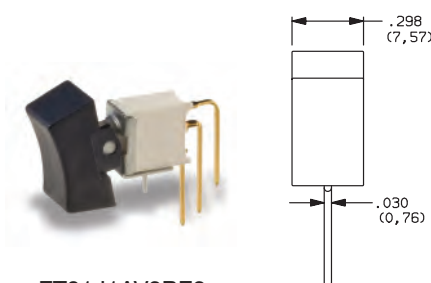
**NOTE:** Terminal bend radii and lead-in manufacturing option.



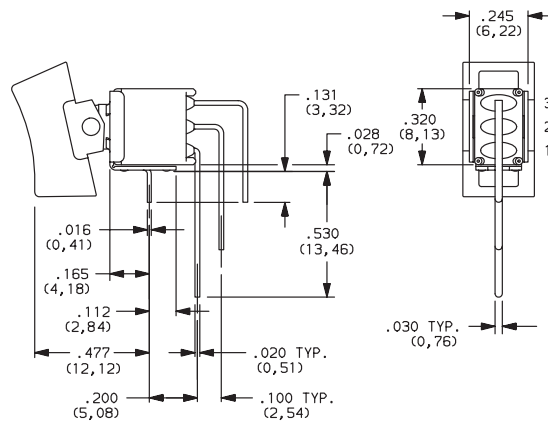
### PC MOUNTING



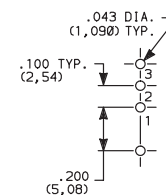
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE



ET01J1AV2BE2  
Vertical Actuation  
SPDT



### PC MOUNTING



Rocker



G

**C&K**



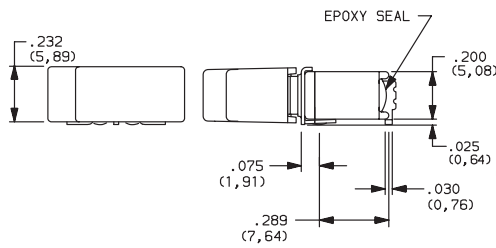
Third Angle  
Projection

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

# ET Series Sealed Subminiature Rocker Switches

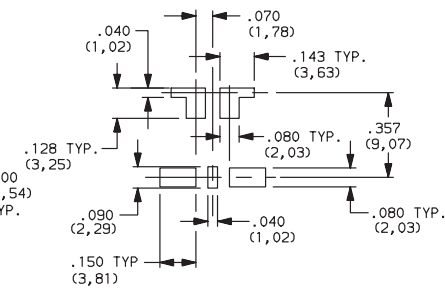
## TERMINATIONS

### SA RIGHT ANGLE, SURFACE MOUNT



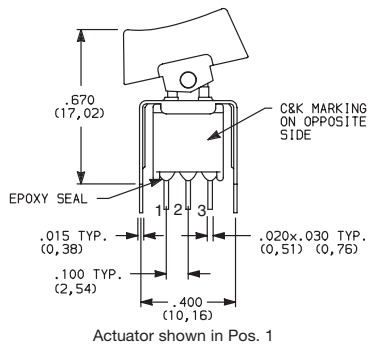
**NOTE:** Standard with tape & reel packaging, see page G-44.  
Available with P contact material only.

### PANEL MOUNTING

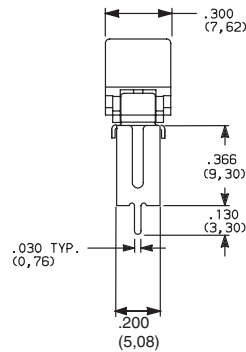


ET01J6SAPE2  
Horizontal Actuation  
SPDT

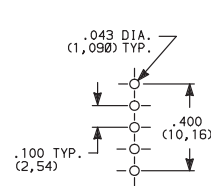
### V3 VERTICAL MOUNT, V-BRACKET



Actuator shown in Pos. 1

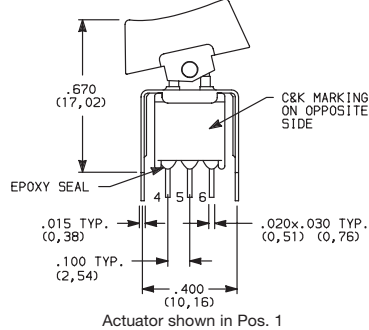


### PC MOUNTING

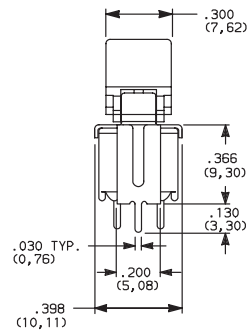


ET01J1V3BE2  
SPDT

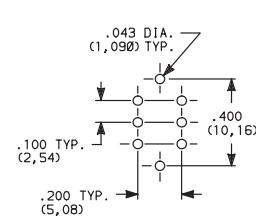
### V3 VERTICAL MOUNT, V-BRACKET



Actuator shown in Pos. 1



### PC MOUNTING



ET21J1V3BE2  
DPDT

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL                   | TERMINAL PLATING       | RATINGS                           |                                                                                                                                                                           |
|-------------|------------------------------------|------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b>    | GOLD <sup>1</sup>                  | GOLD <sup>1</sup>      | LOW LEVEL/<br>DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                                                                                                          |
| <b>P</b>    |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                                                                                                           |
| <b>Q</b>    | SILVER <sup>4,5</sup>              | SILVER <sup>5</sup>    | POWER                             | ETX1 MODELS: 3 AMPS @ 120 V AC<br>OR 28 V DC.<br>ALL OTHER MODELS: 2 AMPS @ 120 V AC<br>OR 28 V DC.                                                                       |
| <b>S</b>    |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                                                                                                           |
| <b>G</b>    | GOLD OVER<br>SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | ETX1 MODELS: 0.4 VA MAX @ 20 V AC OR DC<br>MAX. OR 3 AMPS @ 120 V AC OR 28 V DC.<br>ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR<br>DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC. |
| <b>R</b>    |                                    | MATTE-TIN <sup>6</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.

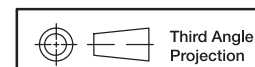
<sup>4</sup> END CONTACTS: Coin silver, silver plated.

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

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

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

All models  with all options when ordered with G, Q, S & R contact material.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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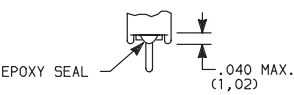


# ET Series

## Sealed Subminiature Rocker Switches

SEAL 

**E** EPOXY SEAL



### AVAILABLE HARDWARE

J1 Actuator



PART NO.  
**261A01000** WHITE  
**261A02263** BLACK  
**261A03000** RED  
Material: Nylon  
Finish: Matte  
NOT AVAILABLE WITH A, SA, SA1

J6 Actuator



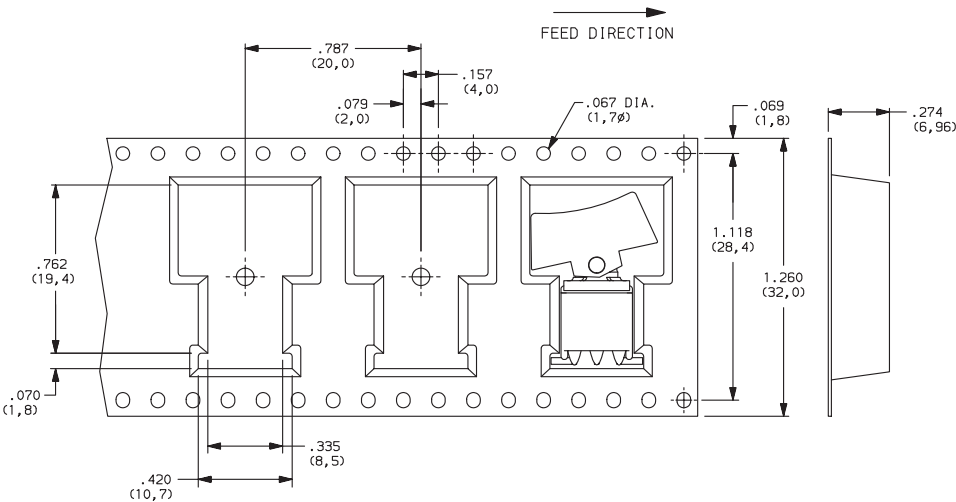
PART NO.  
**621C01000** WHITE  
**621C02263** BLACK  
**621C03000** RED  
Material: Nylon  
Finish: Matte  
For Hi Temp, Consult Factory

**NOTE:** Other colors available,  
consult Customer Service Center.

### TAPE & REEL SA TERMINATION

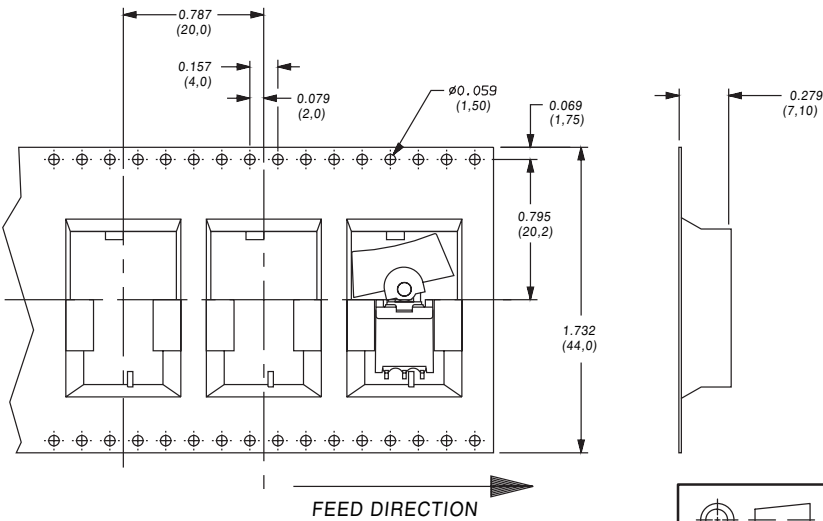
ET01J6SABE (SHOWN)

| REEL INFORMATION  |               |
|-------------------|---------------|
| OUTSIDE DIAMETER  | 13.00 (330,0) |
| PILOT HOLE        | .512 (13,0)   |
| QUANTITY PER REEL | 500           |



ET01J6SA1BE (SHOWN)

| REEL INFORMATION  |               |
|-------------------|---------------|
| OUTSIDE DIAMETER  | 13.00 (330,0) |
| PILOT HOLE        | .795 (20,20)  |
| QUANTITY PER REEL | 450           |



Third Angle  
Projection

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

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# Mouser Electronics

Authorized Distributor

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[ET01J6AVPE2](#) [ET01J6V3BE2](#) [ET01J6V3PE2](#) [ET01J6V3SE2](#) [ET02J1V3GE2](#) [ET02J6AVBE2](#) [ET02J6AVQE2](#)  
[ET02J6V3GE2](#) [ET03J6AVBE2](#) [ET05J6SAKE2](#) [ET05J6V3PE2](#) [ET08J1AQE2](#) [ET08J1V3QE2](#) [ET21J6AVQE2](#)  
[ET21J6CBE2](#) [ET21J6V3BE2](#) [ET28J1ABE2](#) [ET28J6ABE2](#) [ET01J1ABE2](#) [ET01J1AVBE2](#) [ET01J1AVGE2](#)  
[ET01J1AVQE2](#) [ET01J1CME2](#) [ET01J6ABE2](#) [ET01J6AGE2](#) [ET01J6ALE2](#) [ET01J6AME2](#) [ET01J6AQE2](#)  
[ET01J6AV2BE2](#) [ET01J6AVBE2](#) [ET01J6AVQE2](#) [ET01J6V3GE2](#) [ET02J1AVQE2](#) [ET02J1CBE2](#) [ET02J1CQE2](#)  
[ET03J1AVBE2](#) [ET03J1CBE2](#) [ET03J6ABE2](#) [ET03J6AGE2](#) [ET03J6CBE2](#) [ET05J1ABE2](#) [ET05J1AVBE2](#)  
[ET05J1V3BE2](#) [ET05J6ABE2](#) [ET05J6AQE2](#) [ET05J6CBE2](#) [ET05J6V3BE2](#) [ET05J6V3KE2](#) [ET07J1AVBE2](#)  
[ET08J6V3BE2](#) [ET21J1ABE2](#) [ET21J1AVBE2](#) [ET21J1AVQE2](#) [ET21J1V3BE1](#) [ET21J6AVBE2](#) [ET21J6V3BE1](#)  
[ET27J1CBE2](#) [ET01J1V3BE1](#) [ET05J6SAPE2](#) [ET07J1CBE2](#) [ET03J6SA1BE2](#) [ET07J6SA1BE2](#) [ET08J6SA1BE2](#)  
[ET01J1AV2BE2](#) [ET03J1AV2BE2](#) [ET02J6V3SE2](#)