

SERIES 46

SPST and DPDT, 1/4 Amp

FEATURES

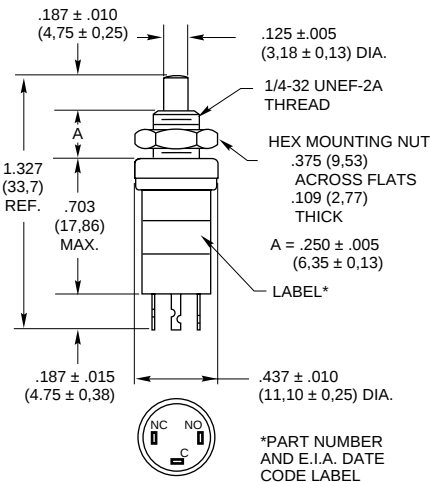
- Long Wipe Contact Assures High Reliability
- 250,000 Cycles of Operation



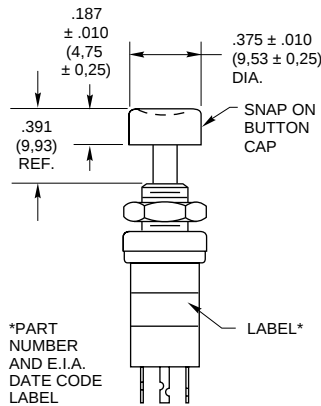
DIMENSIONS In Inches (and millimeters)

Single Pole/Double Throw

46-101* (BBM)
46-110* (MBB)



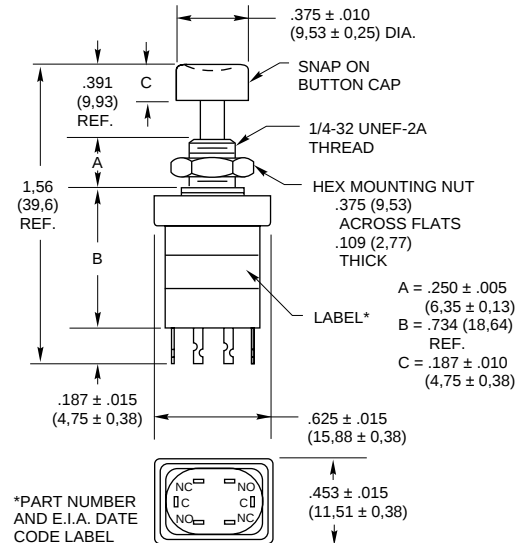
46-102* (BBM)
46-111* (MBB)



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button or Cap Color
1/4 Amp	1/8 Amp	250,000	46-101 RED 46-101 BLK 46-102 RED 46-102 BLK 46-110 RED 46-110 BLK 46-111 RED 46-111 BLK	Red Black Red Black Red Black Red Black
Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole	
Momentary	.180 (4,57) Min.	17 ± 5	17/64" (6,75)	

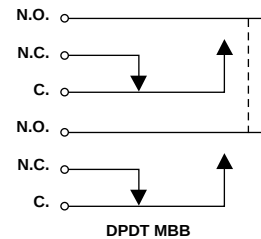
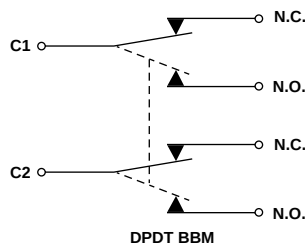
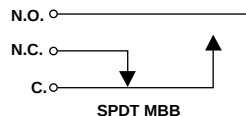
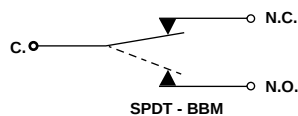
Double Pole/Double Throw

46-200* (BBM)
46-201* (MBB)



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Cap Color
1/4 Amp	1/8 Amp	250,000	46-200 RED 46-200 BLK 46-201 RED 46-201 BLK	Red Black Red Black
Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole	
Momentary	.180 (4,57) Min.	35 ± 9	17/64" (6,75)	

CIRCUITRY



SPST and DPDT, 1/4 Amp

- Bushing and Button Seal
- Environmentally Sealed



Sealed Bushing and Button Single Pole/Double Throw

Technical drawing of a Snap On Button Cap assembly. The drawing shows a side view of the assembly with various dimensions and labels. The dimensions are given in inches and millimeters (in parentheses). The labels are in all caps.

Dimensions:

- .375 ± .010 (9,53 ± 0,25) DIA.
- .391 (9,93) REF.
- 1.62 (41,15) REF.
- .187 ± .015 (4,75 ± 0,38)
- .450 (11,43) MAX.
- .505 (12,83) REF.
- .375 (9,5) ACROSS FLATS
- .109 (2,8) THICK A = .250 ± .005 (6,35 ± 0,13)
- B = .770 ± .015 (19,56 ± 0,38)
- C = .187 ± .010 (4,75 ± 0,25)
- *PART NUMBER AND E.I.A. DATE CODE LABEL

Labels:

- SNAP ON BUTTON CAP
- 1/4-32 UNEF-2A THREAD
- HEX MOUNTING NUT
- ACROSS FLATS
- THICK A = .250 ± .005 (6,35 ± 0,13)
- B = .770 ± .015 (19,56 ± 0,38)
- C = .187 ± .010 (4,75 ± 0,25)
- *PART NUMBER AND E.I.A. DATE CODE LABEL
- ACROSS FLATS OF HEX .505 (12,83) REF. ACROSS CORNERS
- O = O RING

Terminals are marked as shown in bottom view of SPDT switch on previous page.

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Cap Color
1/4 Amp	1/8 Amp	100,000	46-150 RED 46-150 BLK 46-151 RED 46-151 BLK	Red Black Red Black

Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole
Momentary	.180 (4.57) Min.	24 ± 4	17/64" (6.75)

Technical drawing of a snap-on button cap assembly. The drawing shows a side view of the assembly with various dimensions and labels.

Dimensions:

- Top diameter: $.375 \pm .010$ (9.53 $\pm$.25) DIA.
- Top diameter (alternative): $.391$ (9.93) REF.
- Dimension C: $.187 \pm .015$ (4.75 $\pm$.38)
- Dimension A: $.250 \pm .005$ (6.35 $\pm$.13)
- Dimension B: $.770 \pm .015$ (19.56 $\pm$.38)
- Dimension O: $.187 \pm .015$ (4.75 $\pm$.38)
- Dimension A (alternative): $.162$ (41.15) REF.
- Dimension B (alternative): $.580$ (14.73) MAX. ACROSS FLATS OF HEX
- Dimension C (alternative): $.650$ (16.51) REF. ACROSS CORNERS

Labels:

- SNAP ON BUTTON CAP
- 1/4-32 UNEF-2A THREAD
- HEX MOUNTING NUT
- ACROSS FLATS
- THICK
- LABEL*

Notes:

- *PART NUMBER AND E.I.A. DATE CODE LABEL
- O = O RING

Terminals are marked as shown in bottom view of DPDT switch on previous page.

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Cap Color
1/4 Amp	1/8 Amp	100,000	46-270 RED 46-270 BLK 46-271 RED 46-271 BLK	Red Black Red Black

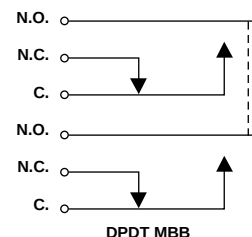
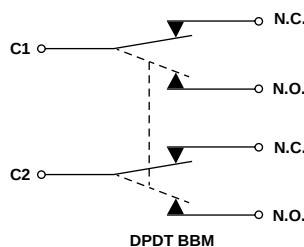
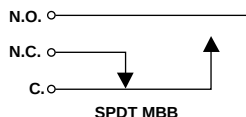
Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole
Momentary	.180 (4,57) Min.	48 ± 4	17/64" (6,75)

C.O.

N.C.

N.O.

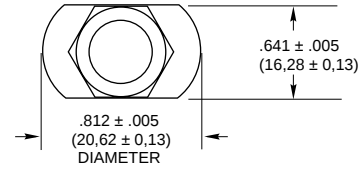
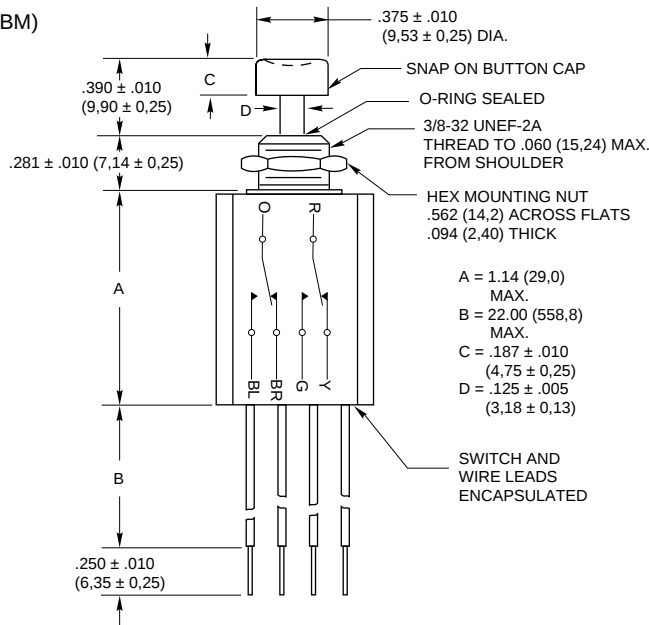
SPDT - BBM



DIMENSIONS In Inches (and millimeters)

Environmentally Sealed Double Pole/Double Throw

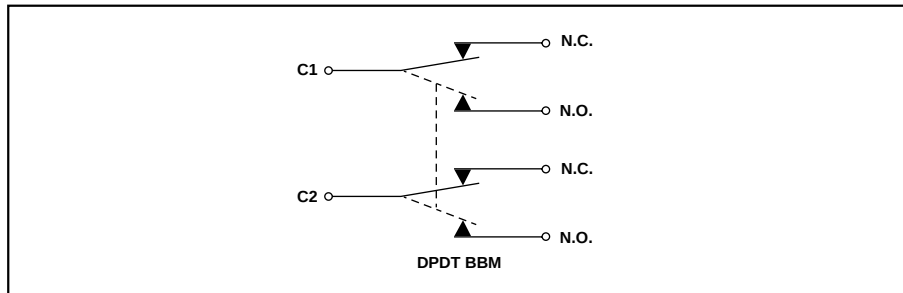
46-260* (BBM)



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Cap Color
1/4 Amp	1/8 Amp	250,000	46-260 RED 46-260 BLK	Red Black

Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole
Momentary	.180 (4,57) Min.	Approx. 45	25/64" (9,92)

CIRCUITRY



SPECIFICATIONS

Rating Criteria

Contact Resistance: Less than 25 milliohms at the switch initially. Less than 4 milliohms/inch of wire.

Voltage Breakdown: 1,000 Vac between mutually insulated parts

Insulation Resistance: 1,000 megohms minimum

Materials and Finishes

Cover, Bushing, Mounting Nut: Brass, cadmium-plated

Shorting Bar: Phosphor bronze, silver-plated.

Terminals: Phosphor bronze, silver contact surface. Terminal ends are solder clad

Base or Potting Shell: Phenolic per MIL-M-14, type CFG

Spring: Tinned music wire

Button Cap: Polyethylene

Button: Polyphenylene sulfide (PPS) for 46-200 and 46-201. Polycarbonate for all other unsealed versions. Aluminum for all sealed versions.

O-Ring Seal: Nitrile per MIL-P-5516, class B

Seal Adapter and Hex Nut (46-260): Brass, cadmium-plated

Wire Leads (46-260): Per MIL-W-16878 type E. #26 AWG, insulated teflon, copper stranded wire

Operating Features

Break-Before-Make: Rest position to N.C. break .020" (0,51) minimum. Rest position to N.O. Make .240" (6,10) maximum.

Make-Before-Break: Rest position to N.O. make .065" ± .015 (1,65 ± 0,38). Rest position to N.C. break .130" ± .015 (3,30 ± 0,38).

Operating Temperature: -40°C to +85°C

STANDARD OPTIONS

Epoxy sealed terminals and wire leads, see page E-34 and E-35.

Decorative mountings, see pages E-24 to E-26.

ACCESSORY



Decorative Mounting Nut

Part No. 30C1023-1

Fits .250" (6,35) Bushing

For dimensions, materials and finishes, see page E-36.

ORDERING INFORMATION

Description	Part No.
SPDT, BBM, Red Button	46-101 RED
SPDT, BBM, Black Button	46-101 BLK
SPDT, BBM, Red Cap	46-102 RED
SPDT, BBM, Black Cap	46-102 BLK
SPDT, MBB, Red Button	46-110 RED
SPDT, MBB, Black Button	46-110 BLK
SPDT, MBB, Red Cap	46-111 RED
SPDT, MBB, Black Cap	46-111 BLK
SPDT, BBM, Red Cap	46-150 RED
SPDT, BBM, Black Cap	46-150 BLK
SPDT, MBB, Red Cap	46-151 RED
SPDT, MBB, Black Cap	46-151 BLK
DPDT, BBM, Red Cap	46-200 RED
DPDT, BBM, Black Cap	46-200 BLK
DPDT, MBB, Red Cap	46-201 RED
DPDT, MBB, Black Cap	46-201 BLK
DPDT, BBM, Red Cap	46-270 RED
DPDT, BBM, Black Cap	46-270 BLK
DPDT, MBB, Red Cap	46-271 RED
DPDT, MBB, Black Cap	46-271 BLK
DPDT, BBM, Sealed, Red	46-260 RED
DPDT, BBM, Sealed, Black	46-260 BLK

ACCESSORY

Decorative Nut	30C1023-1
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Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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