

SERIES 46

SPST and DPDT, 1/4 Amp

FEATURES

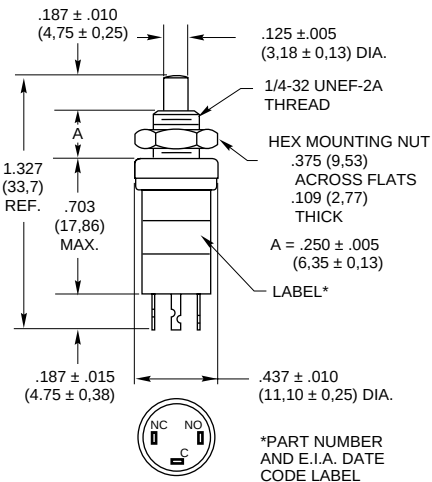
- Long Wipe Contact Assures High Reliability
- 250,000 Cycles of Operation



DIMENSIONS In Inches (and millimeters)

Single Pole/Double Throw

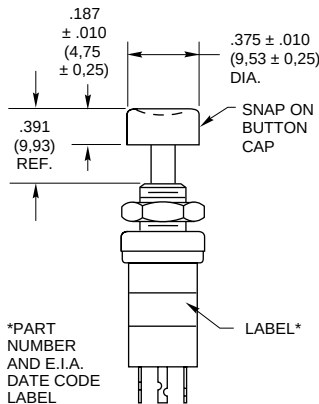
46-101* (BBM)
46-110* (MBB)



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	Red
			46-101 BLK	Black
			46-102 RED	Red
			46-102 BLK	Black
			46-110 RED	Red
			46-110 BLK	Black

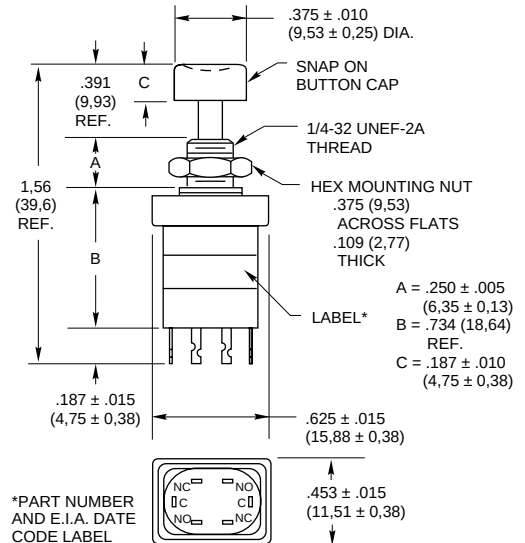
Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole
Momentary	.180 (4,57) Min.	17 ± 5	17/64" (6,75)

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



Double Pole/Double Throw

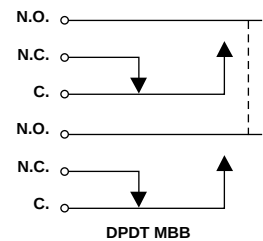
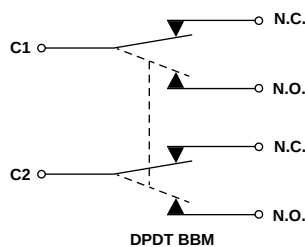
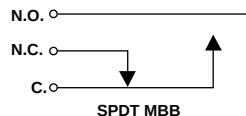
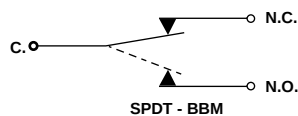
46-200* (BBM)
46-201* (MBB)



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	Red
			46-200 BLK	Black
			46-201 RED	Red
			46-201 BLK	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 hex mounting nut 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.
- .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)
- .187 ± .015 (4,75 ± 0,38)
- .450 (11,43) MAX.
- .505 (12,83) REF. ACROSS CORNERS

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. Key components include a Snap On Button Cap, a 1/4-32 UNEF-2A Thread, a Hex Mounting Nut, and a Label. Dimensions are given in inches and millimeters.

Labels and Dimensions:

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

Dimensions (Inches / Millimeters):

- .375 ± .010 (9.53 ± 0.25) DIA.
- .391 (9.93) REF.
- 1.62 (41.15) REF.
- .187 ± .015 (4.75 ± 0.38)
- .580 (14.73) MAX. ACROSS FLATS OF HEX
- .650 (16.51) REF. ACROSS CORNERS

Table of Dimensions:

Dimension	Value (Inches)	Value (Millimeters)
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

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

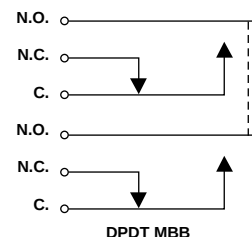
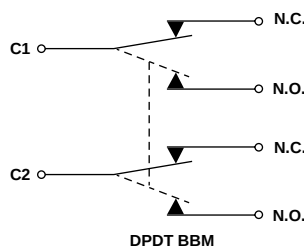
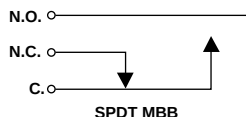
Action	Total Travel	Bottoming Force (oz.)	Mtg. Hole
Momentary	.180 (4,57) Min.	48 ± 4	17/64" (6,75)

C.O.

N.C.

N.O.

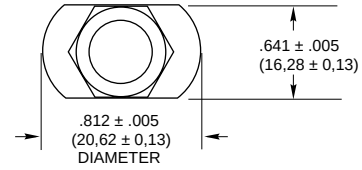
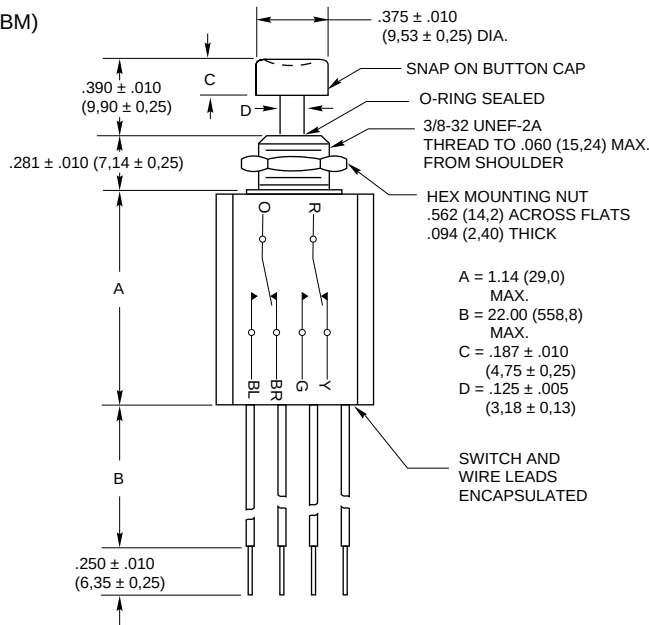
SPDT - BBM



DIMENSIONS In Inches (and millimeters)

Environmentally Sealed Double Pole/Double Throw

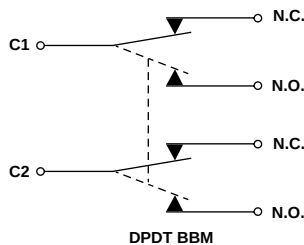
46-260* (BBM)



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" $\pm$.015 (1,65 $\pm$ 0,38). Rest position to N.C. break .130" $\pm$.015 (3,30 $\pm$ 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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9