

SPA10AB Datasheet



DiGi Electronics Part Number	SPA10AB-DG
Manufacturer	C&K
Manufacturer Product Number	SPA10AB
Description	SWITCH SLIDE DIP SPST 10MA 20V
Detailed Description	Dip Switch SPST 10 Position Through Hole, Right Angle Slide (Standard) Actuator 10mA 20VDC

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Purchase and inquiry

Manufacturer Product Number:

SPA10AB

Series:

SPA

Circuit:

SPST

Current Rating (Amps):

10mA

Actuator Type:

Slide (Standard)

Contact Material:

Beryllium Copper

Height Above Board:

0.169" (4.30mm)

Termination Style:

PC Pin

Washable:

Yes

Operating Temperature:

-30°C ~ 60°C

Length:

1.142" (29.01mm)

Electrical Life:

1,000 Cycles

Manufacturer:

C&K

Product Status:

Active

Number of Positions:

10

Voltage Rating:

20VDC

Actuator Level:

Flush, Recessed

Contact Finish:

Gold

Mounting Type:

Through Hole, Right Angle

Pitch:

0.100" (2.54mm), Full

Features:

-

Body Material:

Polyphenylene Sulfide (PPS)

Mechanical Life:

1,000 Cycles

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.50.9065

Moisture Sensitivity Level (MSL):

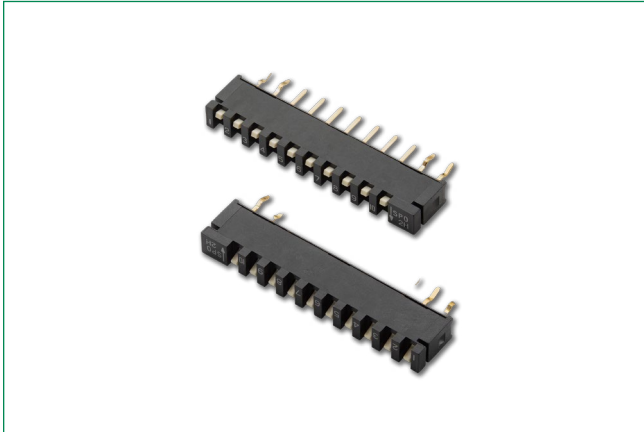
1 (Unlimited)

ECCN:

EAR99

SPA Series

Single In-line Package Switches



Description

The SPA series DIP saves PCB space because of its thin single in-line packaging. Its retention feature holds part to PCB, prior to soldering – and its high-pressure contact system does not require tape sealing. SPA switch is typically used for function controls, logic switching, and address switching in industrial applications.

Features & Benefits

- Thin Single in-line packaging saves PCB space
- Retention feature holds part to PCB prior to soldering
- Available in vertical or right angle models
- High pressure contact system does not require tape sealing
- RoHS compliant

Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications

Specifications

Contact Rating	Carry: 10 mA @ 5 VDC Switching: 0.1 mA @ 0.1m VDC min.
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Mechanical Characteristics

Mechanical and Electrical Life	1,000 cycles min.
Contact Resistance	50 mΩ max. @ 20 VDC 10mA.
Insulation Resistance	100 MΩ min. @ 100 VDC
Dielectric Strength	1 minute @ 300 VAC

Environmental Characteristics

Storage Temperature	-40°C to 85°C
Operating Temperature	
Operating Force	5.9 N max.
Capacitance	5pF max. Between adjacent terminals.

Process

Soldering	Dip & look solderability testing per C&K spec. #448. Unplated edges of terminals permitted.
Packaging	Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model.

Materials

Base	PPS (UV 94 V-0)
Cover	PBT (UL94 V-0)
Actuator	4/6 Nylon (UL94 V-0)
Movable Contact	Beryllium Copper alloy, Gold over Nickel plate
Fixed Contact	Copper alloy, Gold over Nickel plate
Clip	Phosphor bronze wire. Phosphor bronze Tin over nickel plate.

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

SPA Series

Single In-line Package Switches



Ordering Number

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. All switches supplied in "OFF" position.

SPAxx - x - B

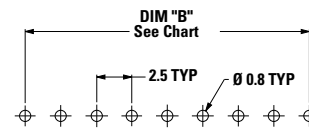
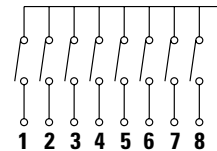
<p>Number of Positions</p> <p>SPA02: 2 positions</p> <p>SPA04: 4 positions</p> <p>SPA06: 6 positions</p> <p>SPA08: 8 positions</p> <p>SPA10: 10 positions</p>	<p>Contact Material</p> <p>B: Gold</p>
<p>Termination</p> <p>None: Vertical</p> <p>A: Right Angle</p>	

Vertical

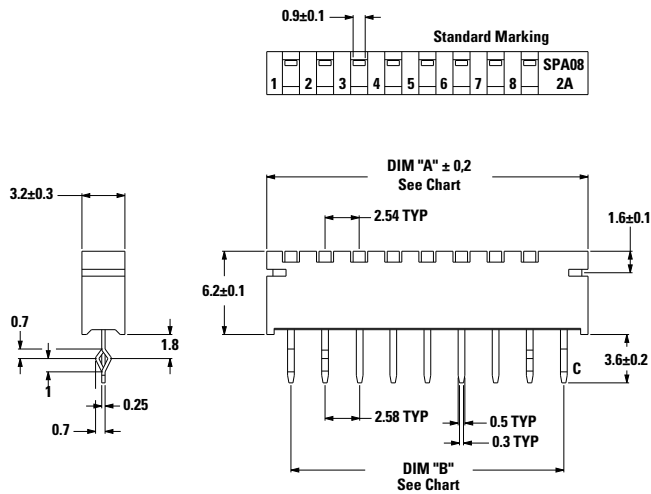
SPA08B

ROHS Part #	No. Pos.	DIM 'A' inches (mm)	DIM 'B' inches (mm)	Quantity per Tube
SPA02B	2	0.342 (8.68)	0.200 (5.08)	50
SPA04B	4	0.542 (13.76)	0.400 (10.16)	30
SPA06B	6	0.742 (18.84)	0.600 (15.24)	25
SPA08B	8	0.942 (23.92)	0.800 (20.32)	20
SPA10B	10	1.142 (29.00)	1.000 (25.40)	15

Schematic SPST



PCB Mounting Footprint

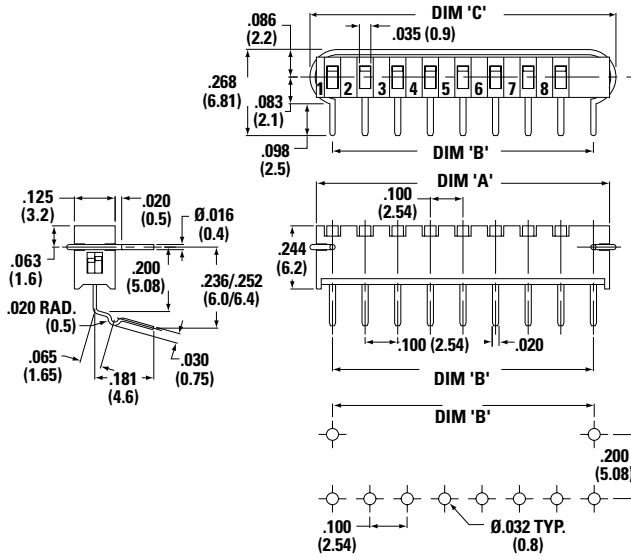


SPA Series

Single In-line Package Switches

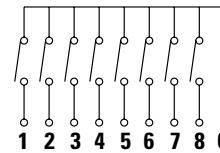


SPA08AB Right Angle



ROHS Part #	No. Pos.	DIM 'A' inches (mm)	DIM 'B' inches (mm)	DIM 'C' inches (mm)	Quantity per Tube
SPA02AB	2	0.342 (8.68)	0.200 (5.08)	0.339 (8.6)	50
SPA04AB	4	0.542 (13.76)	0.400 (10.16)	0.540 (13.7)	30
SPA06AB	6	0.742 (18.84)	0.600 (15.24)	0.736 (18.7)	25
SPA08AB	8	0.942 (23.92)	0.800 (20.32)	0.937 (23.8)	20
SPA10AB	10	1.142 (29.00)	1.000 (25.40)	1.138 (28.9)	15

Schematic SPST



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