

8

7

6

5

4

3

2

1

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TE Connectivity

REVISIONS

| P | LTR     | DESCRIPTION       | DATE      | DWN | APVD |
|---|---------|-------------------|-----------|-----|------|
| B | REVISED | PER ECO-08-023819 | 25SEP08   | HMR | MS   |
| C | REVISED | PER ECO-17-001607 | 16MAY2017 | RK  | PO   |

SPECIFICATIONS

MATERIALS:

CASE, PPS UL94V-0, BLACK

COVER, PBT UL94V-0, BLACK

ACTUATOR, 46 NYLON UL94V- 0, WHITE

TERMINAL/FIXED CONTACT-COPPER ALLOY- GOLD OVER NICKEL PLATE

MOVING CONTACT-COPPER ALLOY- GOLD FLASH OVER NICKEL PLATE

ELECTRICAL:

RATING- 1a max non-switching

0.1µA (1mV) min switching

DC 5V 10mA

INITIAL CONTACT RESISTANCE- 50milliohm max. (300 milliohms after test)

INSULATION RESISTANCE- 100Megohms min. at 100V DC

DIELECTRIC STRENGTH- 300V RMS@SEA LEVEL

LIFE EXPECTANCY- 1,000 CYCLES

MECHANICAL:

ACTUATION FORCE- 2.45 +/-1.47N (245 +/-147 GF)

TRAVEL- 33°

ENVIRONMENTAL:

OPERATING TEMPERATURE- -30 TO +85 DEGREES C

STORAGE TEMPERATURE- -45 TO +100 DEGREES C

RESISTANCE TO SOLDER HEAT- 265 +/--3°C for 8 +/-2 seconds

SOLDERABILITY PER JIS-C-0050 & JIS-C-0053

1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)

2 SWITCH SUPPLIED IN THE "OFF" POSITION AND SHOULD BE SOLDERED IN THE "OFF" POSITION.

0.90  
[.036]  
TYP

1

2

3

4

5

6

7

8

9

10

DATE CODE

6 K

YEAR NOV

DIM L±0.50[.020]

DIM P

1.20  
[.047]

6.20  
[.244]

3.60  
[.142]

0.47  
[.019]  
TYP

2.54  
[.100]

A

A

3.18  
[.125]

1.69  
[.067]

8.08  
[.318]

1.39  
[.055]  
TYP

0.23  
[.009]  
TYP

CIRCUIT DIAGRAM

1 2 3 4 5 6 7 8 9 10 C

2.54  
[.100]  
TYP

Ø0.80  
[Ø.031]  
TYP

P.C.LAYOUT

|          |                     |                  |                  |         |                |
|----------|---------------------|------------------|------------------|---------|----------------|
| OBSOLETE | 1, 2, 10 & C        | 25.40<br>(1.000) | 28.60<br>(1.126) | STV10   | 1977104-5      |
|          | 1, 2, 8, & C        | 20.32<br>(.800)  | 23.52<br>(.926)  | STV08   | 1977104-4      |
|          | 1, 2, 6 & C         | 15.24<br>(.600)  | 18.44<br>(.726)  | STV06   | 1977104-3      |
|          | ALL                 | 10.16<br>(.400)  | 13.36<br>(.526)  | STV04   | 1977104-2      |
|          | ALL                 | 5.08<br>(.200)   | 8.28<br>(.326)   | STV02   | 1977104-1      |
|          | KINKED<br>TERMINALS | DIM P            | DIM L            | T&B P/N | PART<br>NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN  
M. BINNER

CHK  
M. S. SARVER

APVD

16MAY07

DIMENSIONS:  
mm [INCHES]

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± 0.30[.012]

3 PLC ± -

4 PLC ± -

ANGLES ± -

FINISH -

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

CUSTOMER DRAWING

SCALE 5:1

SHEET 1 OF 1

REV C

TE Connectivity

SIP SWITCH  
( STV02 - 10 SERIES )

A1007791977104

4805 (1/15)

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