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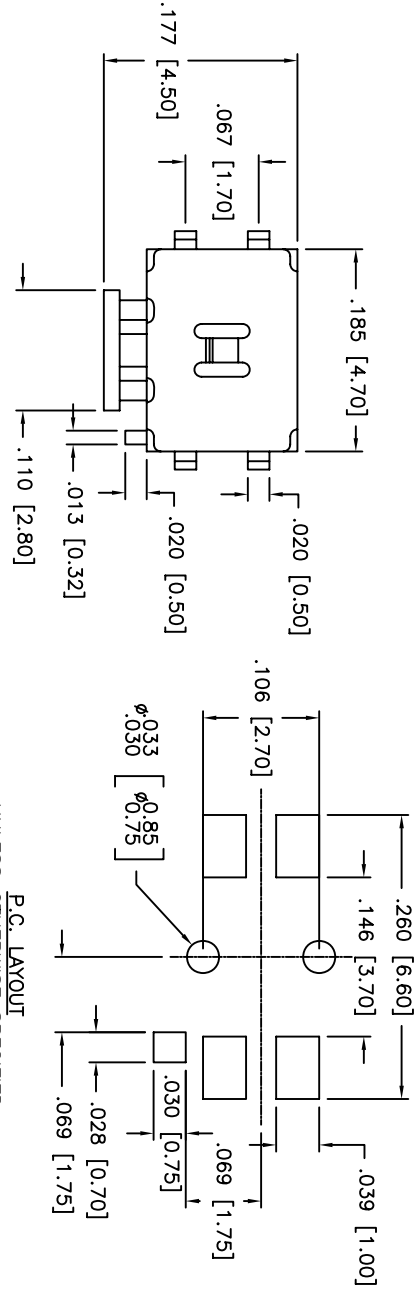
| DATE  | SYM | REVISION RECORD | DWN. | CK. |
|-------|-----|-----------------|------|-----|
| 10/05 | A   | ECO# 483        | CD   | PD  |
| 2/07  | B   | ECO# 628        | CD   | PD  |
|       |     |                 |      |     |

DESCRIPTION: SPST, MINIATURE SIDE PUSH SWITCH WITH P.C. LOCATING PINS AND SMT GULLWING TERMINALS.

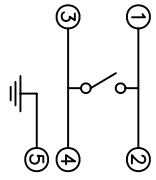
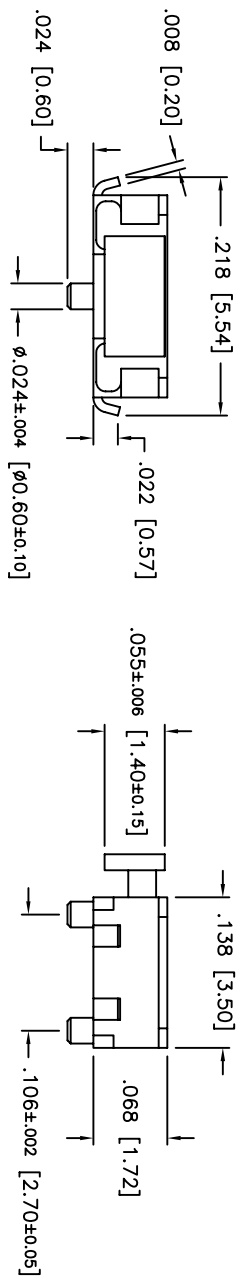
SPECIFICATIONS:

CONTACT RATING: 50mA @ 12VDC  
INSULATION RESISTANCE: 100 MOHMS MIN. (500VDC)  
DIELECTRIC STRENGTH: 100VAC FOR 1 MINUTE  
CONTACT RESISTANCE: 100 MOHMS MAX.  
SHOCK RESISTANCE: 50G PER METHOD 213B, MIL-STD-202F  
VIBRATION RESISTANCE: PASSES METHOD 201A, MIL-STD-202F  
ELECTRICAL LIFE: 100,000 CYCLES MIN.  
OPERATING FORCE: 220gf  $\pm$ 70gf  
TRAVEL: 0.30  $\pm$ 0.15mm  
OPERATING TEMP. RANGE: -25°C TO +70°C  
STORAGE TEMP. RANGE: -30°C TO +80°C  
MATERIALS

COVER: STAINLESS STEEL.  
CONTACT DISK: STAINLESS STEEL.  
TERMINAL: BRASS WITH SILVER PLATING.  
BASE: LCP HIGH-TEMP. THERMOPLASTIC, COLOR: BLACK.  
STEM: LCP HIGH-TEMP. THERMOPLASTIC, COLOR: BLACK.  
ROHS COMPLIANT  
LEAD FREE PROCESS COMPATIBLE  
HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SECONDS  
IR REFLOW: 255°C MAX



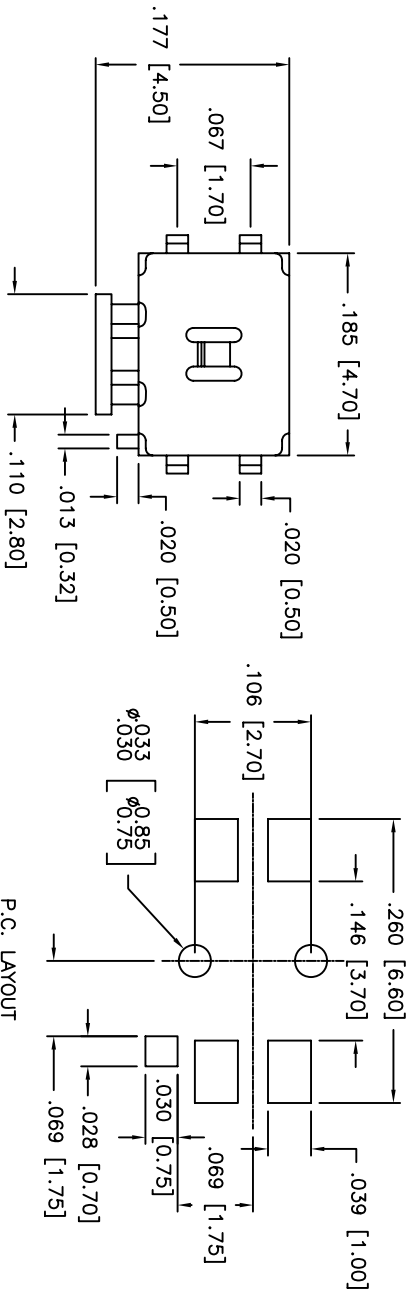
P.C. LAYOUT  
UNLESS OTHERWISE SPECIFIED  
P.C. TOLERANCES ARE  $\pm$ .002 [0.05]



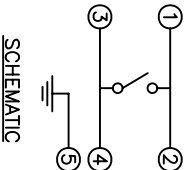
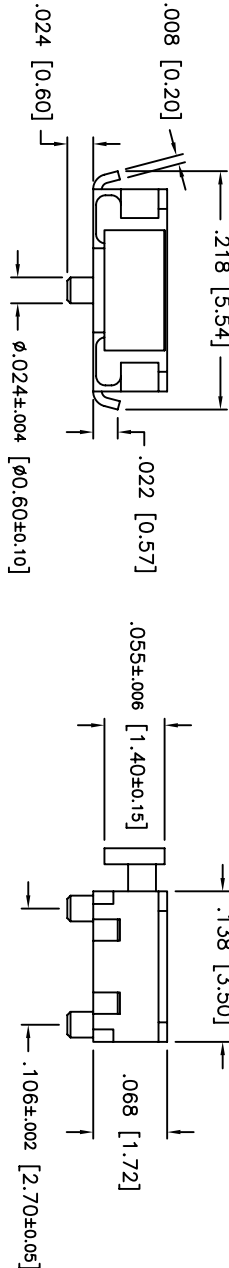
SCHEMATIC

| Q.A. INSPECT. | DESIGNATES CRITICAL DIMENSION                                                        | TOLERANCES (UNLESS OTHERWISE SPECIFIED)                                           | ANGLE = 30.5°                               | DATE     | DRAWING NO. | REV. |
|---------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------|----------|-------------|------|
| APPEM         | 63 Neck Rd. 01835<br>Haverhill, MA 01835<br>Phone: 978-372-3534<br>Fax: 978-372-3534 | INCH<br>(MM)<br>1 OF 1<br>SHEET<br>SIZE<br>9:1<br>SCALE<br>THIRD ANGLE PROJECTION | TITLE<br>TINY SIDE PUSH SWITCH<br>APTC LGTR | 12/16/04 | B7626       | B    |

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UNLESS OTHERWISE SPECIFIED  
P.C. TOLERANCES ARE ±.002 [0.05]



DESCRIPTION: SPST, MINIATURE SIDE PUSH  
SWITCH WITH P.C. LOCATING PINS AND SMT  
GULLWING TERMINALS.

SPECIFICATIONS:

CONTACT RATING: 50mA @ 12VDC  
INSULATION RESISTANCE: 100 MOHMS MIN.  
(500VDC)  
DIELECTRIC STRENGTH: 100VAC FOR 1 MINUTE  
CONTACT RESISTANCE: 100. MOHMS MAX.  
SHOCK RESISTANCE: 50G PER METHOD 213B.  
MIL-STD-202F  
VIBRATION RESISTANCE: PASSES METHOD 201A.  
MIL-STD-202F

ELECTRICAL LIFE:  
100,000 CYCLES MIN.  
OPERATING FORCE: 160±50gf  
TRAVEL: .008±.004  
OPERATING TEMP. RANGE: -25°C TO +70°C  
STORAGE TEMP. RANGE: -30°C TO +80°C  
MATERIALS

COVER: STAINLESS STEEL.  
CONTACT DISK: STAINLESS STEEL.  
TERMINAL: BRASS WITH SILVER PLATING.  
BASE: LCP HIGH-TEMP. THERMOPLASTIC,  
COLOR: BLACK.  
STEM: LCP HIGH-TEMP. THERMOPLASTIC,  
COLOR: BLACK.

ROHS COMPLIANT  
LEAD FREE PROCESS COMPATIBLE  
HAND SOLDERING: 30 WATT IRON AT 350°C  
FOR 5 SECONDS  
IR REFLOW: 255°C MAX

| DATE | SYM | REVISION RECORD | DWN. | CK. |
|------|-----|-----------------|------|-----|
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|-----------------------------|--|------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|
| Q.A. INSPECT.               |  | DESIGNATES CRITICAL                                                          |  | TOLERANCES<br>(UNLESS OTHERWISE SPECIFIED)<br>.XX±.XX[0.05]<br>.XXX±.XXX[0.20]<br>.XXXX±.XXXX[0.02]<br>ANGLE = 30.5° |  |
| APPEM                       |  | 63 Neck Rd.<br>Haverhill, MA 01830<br>Tel: 978-372-1554<br>Fax: 978-372-1554 |  | DRN. CJD<br>BR. PJD                                                                                                  |  |
| JUN 1 1 OF 1                |  | SIZE 9:1                                                                     |  | THIRD ANGLE PROJECTION                                                                                               |  |
| TITLE TINY SIDE PUSH SWITCH |  | SCALE                                                                        |  | REV                                                                                                                  |  |
| DATE 10/5/05                |  | DRAWING NO. APTCLCTR                                                         |  | REV A                                                                                                                |  |

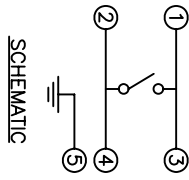
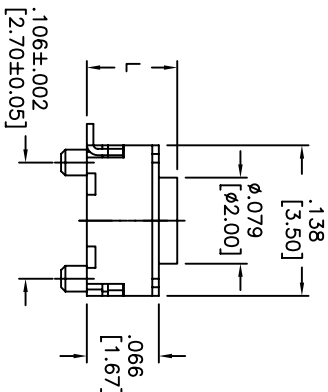
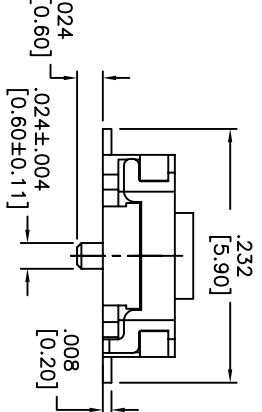
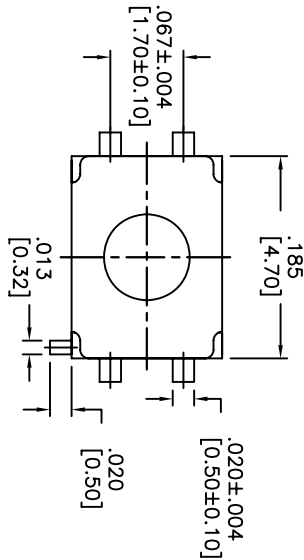
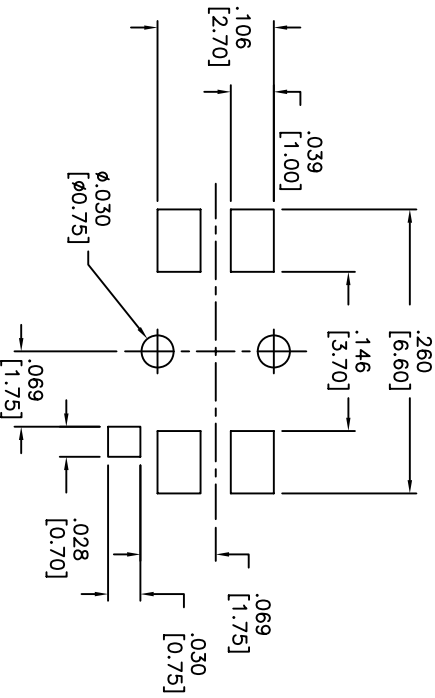
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DESCRIPTION: SPST, MINIATURE VERTICAL PUSH SWITCH WITH P.C. LOCATING PINS AND SMT SPECIFICATIONS:

CONTACT RATING: 50mA @ 12VDC  
INSULATION RESISTANCE: 100 MOHMS MIN. (500VDC)  
DIELECTRIC STRENGTH: 250VAC FOR 1 MINUTE  
CONTACT RESISTANCE: 100 MOHMS MAX.  
SHOCK RESISTANCE: 50G PER METHOD 213B.  
MIL-STD-202F  
VIBRATION RESISTANCE: PASSES METHOD 201A.  
MIL-STD-202F  
ELECTRICAL LIFE:  
100,000 CYCLES MIN.  
OPERATING FORCE: 160±50gf  
TRAVEL: .008±.004  
OPERATING TEMP. RANGE: -25°C TO +70°C  
STORAGE TEMP. RANGE: -30°C TO +80°C  
MATERIALS  
COVER: STAINLESS STEEL.  
CONTACT DISK: STAINLESS STEEL.  
TERMINAL: BRASS WITH SILVER PLATING.  
BASE: LCP HIGH-TEMP. THERMOPLASTIC,  
COLOR: BLACK.  
STEM: LCP HIGH-TEMP. THERMOPLASTIC,  
COLOR: BLACK.  
ROHS COMPLIANT  
LEAD FREE PROCESS COMPATIBLE  
HAND SOLDERING: 30 WATT IRON AT 350°C  
FOR 5 SECONDS  
IR REFLOW: 255°C MAX

P.C. LAYOUT  
UNLESS OTHERWISE SPECIFIED  
P.C. TOLERANCES ARE ±.004 [0.10]



| PART NO.   | 1     | 2       |
|------------|-------|---------|
| APTCTGFP1V | .0827 | [2.100] |
| APTCTGFP2V | .0984 | [2.50]  |

|                                         |  |                               |  |
|-----------------------------------------|--|-------------------------------|--|
| Q.A. INSPECT.                           |  | DESIGNATES CRITICAL DIMENSION |  |
| TOLERANCES (UNLESS OTHERWISE SPECIFIED) |  | TITLE                         |  |
| .XX±.XX [0.05]                          |  | TINY VERTICAL                 |  |
| .XXX±.XXX [0.20]                        |  | PUSH SWITCH                   |  |
| .XXXX±.XXXX [0.02]                      |  | THIRD ANGLE PROJECTION        |  |
| ANGLE = 10.5°                           |  | DATE                          |  |
| DO NOT SCALE DRAWING                    |  | 7/7/05                        |  |
| DRAWING NO.                             |  | APTCTGFP*V                    |  |
| REV                                     |  | A                             |  |

A

B

C

D

E

A

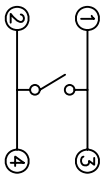
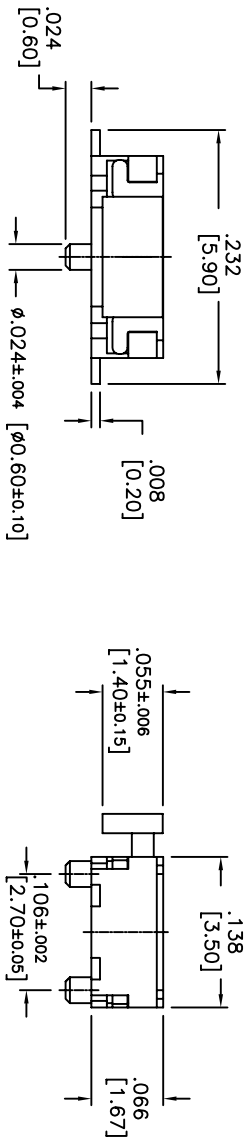
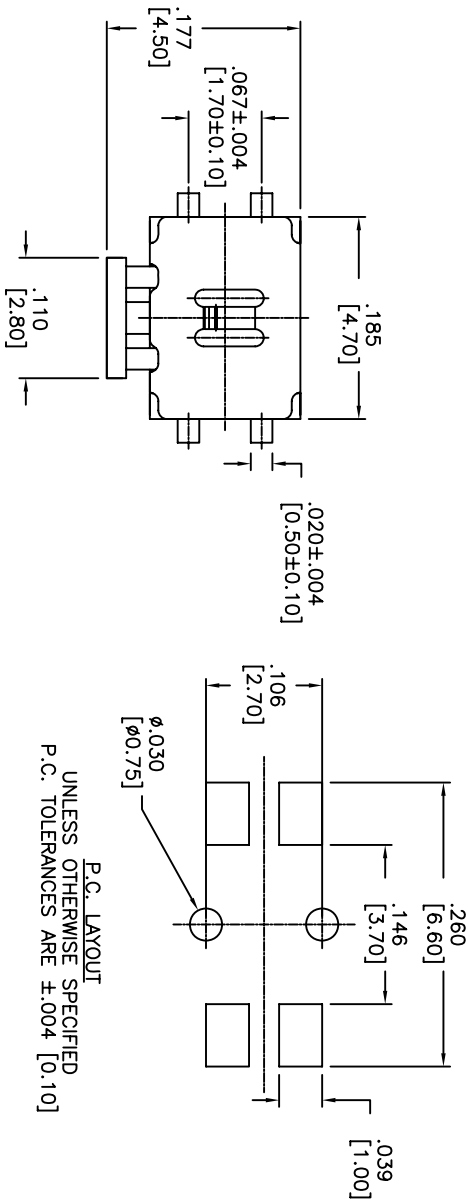
B

C

D

E

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SCHEMATIC

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|      |     |                 |      |     |
|      |     |                 |      |     |

DESCRIPTION: SPST, MINIATURE SIDE PUSH SWITCH WITH P.C. LOCATING PINS AND SMT SPECIFICATIONS:

CONTACT RATING: 50mA @ 12VDC

INSULATION RESISTANCE: 100 MOHMS MIN. (500VDC)

DIELECTRIC STRENGTH: 250VAC FOR 1 MINUTE

CONTACT RESISTANCE: 100 MOHMS MAX.

SHOCK RESISTANCE: 50G PER METHOD 213B.

MIL-STD-202F

VIBRATION RESISTANCE: PASSES METHOD 201A.

MIL-STD-202F

ELECTRICAL LIFE: 100,000 CYCLES MIN.

OPERATING FORCE: 220 ±9g

TRAVEL: .012 ±.004

OPERATING TEMP. RANGE: -25°C TO +70°C

STORAGE TEMP. RANGE: -30°C TO +80°C

MATERIALS

COVER: STAINLESS STEEL.

CONTACT DISK: STAINLESS STEEL.

TERMINAL: BRASS WITH SILVER PLATING.

BASE: LCP HIGH-TEMP. THERMOPLASTIC.

COLOR: BLACK.

STEM: LCP HIGH-TEMP. THERMOPLASTIC.

COLOR: BLACK.

TAPE: TEFLON

TAPE & REEL PACKAGING: 3,000 PCS. PER REEL

ROHS COMPLIANT

LEAD FREE PROCESS COMPATIBLE

HAND SOLDERING: 30 WATT IRON AT 350°C

FOR 5 SECONDS

IR REFLOW: 255°C MAX

|                                                                                     |  |                                                                              |  |                                                                           |  |                          |  |        |  |                        |  |                                                                                     |  |
|-------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|--------------------------|--|--------|--|------------------------|--|-------------------------------------------------------------------------------------|--|
| Q.A. INSPECT.                                                                       |  | DESIGNATES CRITICAL DIMENSION                                                |  | TOLERANCES (DRAWN AS NOTED)                                               |  | TITLE                    |  | DATE   |  | DRAWING NO.            |  | REV.                                                                                |  |
| △                                                                                   |  |                                                                              |  | XX=±0.02[0.05]<br>XXX=±0.008[0.02]<br>XXXX=±0.0008[0.02]<br>ANGLE = ±0.5° |  | TINY SIDE<br>PUSH SWITCH |  | 7/7/05 |  | APTcfv                 |  | A                                                                                   |  |
|  |  | 63 Neck Rd.<br>Haverhill, MA 01830<br>Tel: 978-372-3534<br>Fax: 978-372-3534 |  | 1 OF 1                                                                    |  | B                        |  | 9:1    |  | THIRD ANGLE PROJECTION |  |  |  |
| PEN.                                                                                |  | C/D                                                                          |  | B/I:                                                                      |  | P/D                      |  |        |  |                        |  |                                                                                     |  |