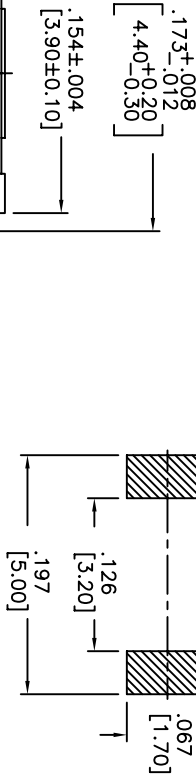
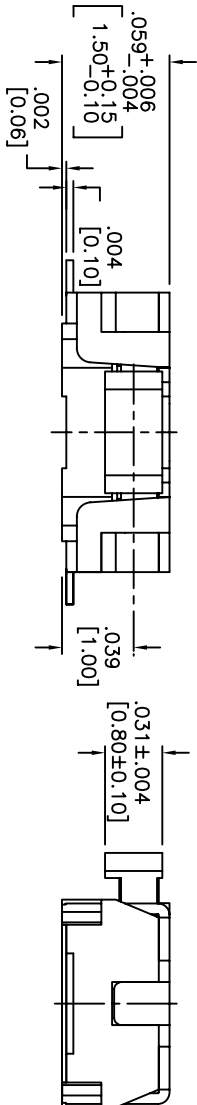
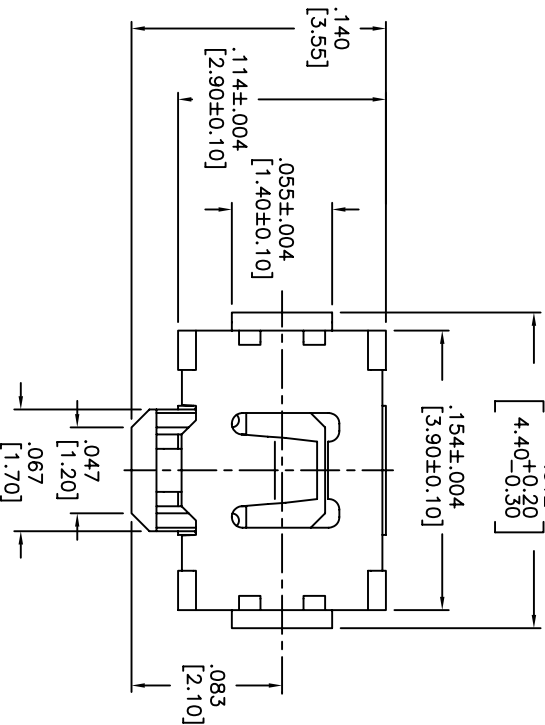


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HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]



DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	A	ECO# 778	CD	PD

DESCRIPTION: SIDE PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 220± 65gf

STROKE: 0.24±.08mm

OPERATION TEMP.: -25°C TO +70°C.

STORAGE TEMP.: -30°C TO +80°C.

ELECTRICAL LIFE: 100,000 CYCLES.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.

DIELECTRIC STRENGTH: 100VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1 POLE 1 THROW.

VIBRATION TEST: PASSED METHOD 201A

MIL-STD-202F.

SHOCK TEST: 50G PER METHOD 213B CONDITION A OF MIL-STD-202F

MATERIALS:

COVER: STAINLESS STEEL

BASE: LCP HIGH-TEMP. THERMOPLASTIC.

COLOR, WHITE.

STEM: LCP HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

CONTACT DISK: STAINLESS STEEL

WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING

PACKAGING: TAPE AND REEL

(3,500 PIECES PER REEL)

ROHS COMPLIANT

LEAD FREE SOLDERING COMPATIBLE

HAND SOLDERING: 320°C MAX WITH 30 WATT IRON

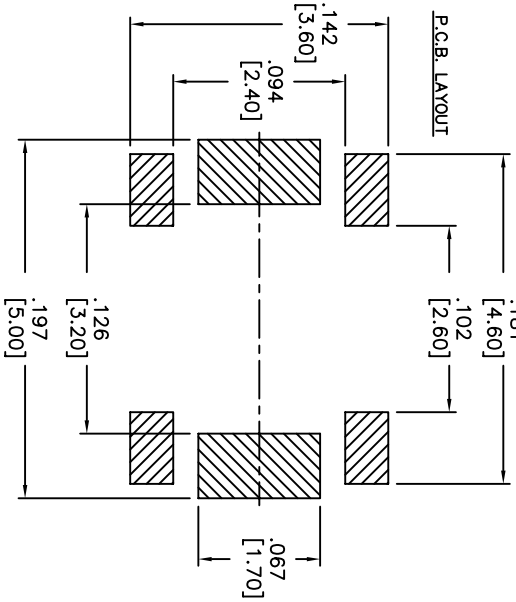
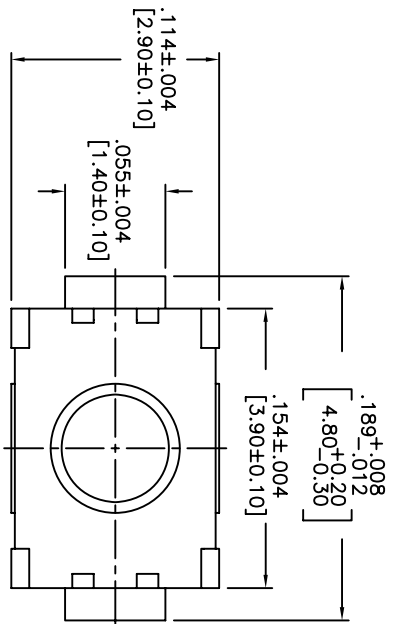
FOR 2 SECONDS

IR REFLOW: 260°C MAX

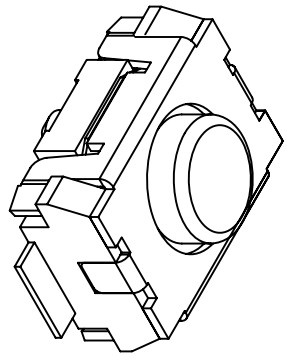
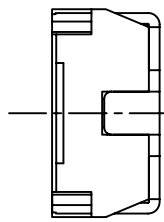
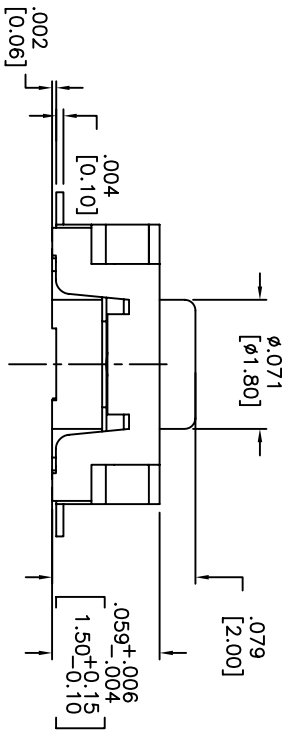
CUSTOMER PART NO.: 263262

Q.A. INSPECT.	DESIGNER'S INITIAL	DATE	DRAWING NO.	REV.
APEN	63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534	7/31/06	AMPTFVTR	A
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	INCH	SHEET	SIZE	SCALE
.XX±.XX[0.5]	1 OF 1	B	15:1	THIRD ANGLE PROJECTION
.XXX±.XXX[0.20]				
.XXXX±.XXXX[0.02]				
ANGLE = 30.5°				

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HATCHED AREA SHOWS SOLDERING LAND



CIRCUIT

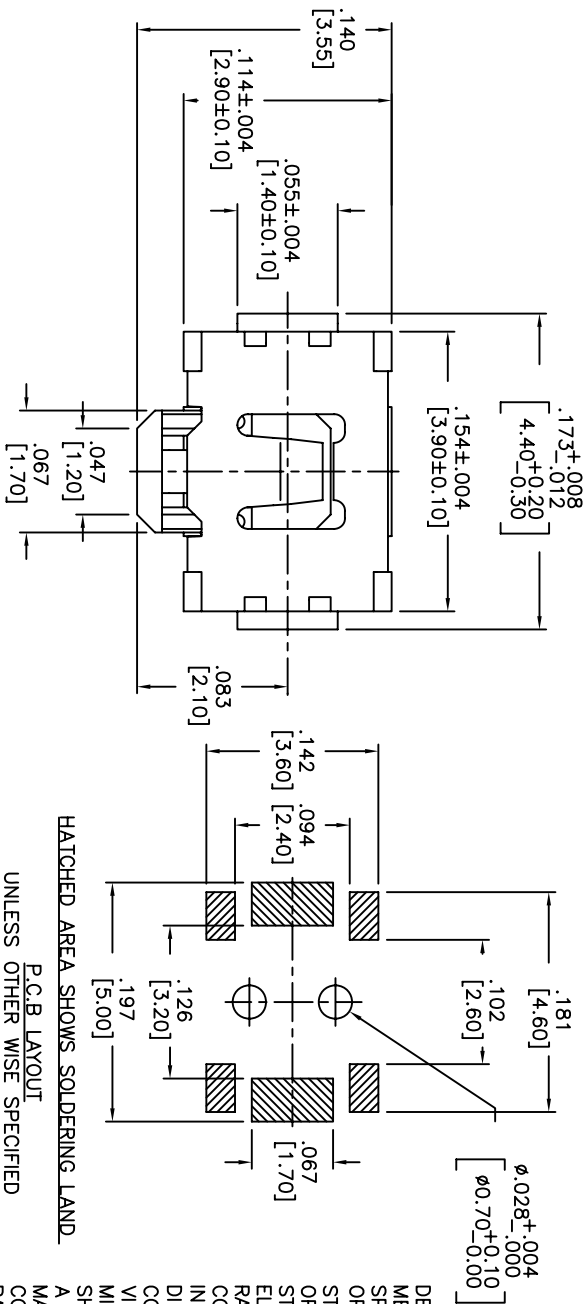
DATE	SYM	REVISION	RECORD	DWN.	CK.
5/08	B	ECO# 778		CD	PD

DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 160±50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50ma, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 213B MIL-STD-202F
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
MATERIALS:
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: BLACK
CONTACT DISK: STAINLESS STEEL WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
TAPE: TEFLON.
TAPE & REEL PACKAGING, 2,000 PER REEL
SOLDERING: HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS
IR REFLOW: 240°C MAX
RoHS COMPLIANT

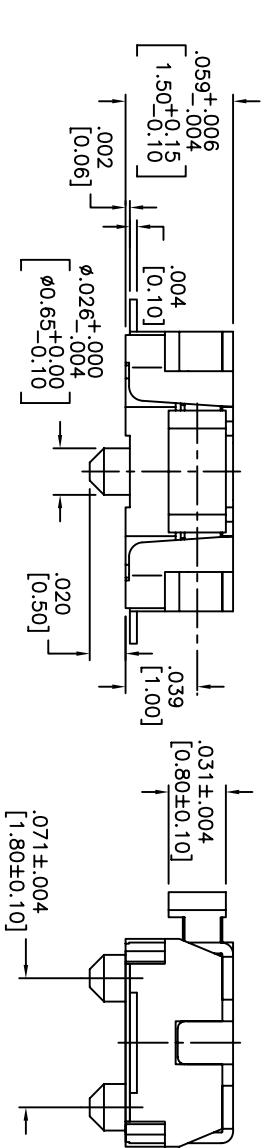
Q.A. INSPECT:		63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534		DRN. CJD
DESIGNATES CRITICAL DIMENSION		APM FIRST ANGLE PROJECTION (1:1)		OK: PJD
TOLERANCES (UNLESS AS NOTED)		INCH		THIRD ANGLE PROJECTION
.XX±.XX[0.5]		SHEET 1 OF 1		B
.XX±.XX[0.20]		SIZE 15:1		
.XXX±.XXX[0.02]		SCALE		
ANGLE = 30.5°		TITLE		
		VERTICAL PUSH		
		TACT SWITCH		
DO NOT SCALE DRAWING		DATE		
		2/4/08		
		DRAWING NO.		
		AMPTFGP2VTR		
		REV		
		B		

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DATE	SYM	REVISION RECORD	DWN.	CK.
01/06	A	ECO # 526	CD	PD
5/08	B	ECO# 778	CD	PD

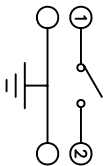


HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHER WISE SPECIFIED
ALL P.C. TOLERANCES ARE $\pm .002$ [0.05]



DESCRIPTION: SIDE PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 220 $\pm$ 65gf
STROKE: 0.2 $\pm$ 0.09mm
OPERATION TEMP.: -25 $^{\circ}$ C TO +70 $^{\circ}$ C.
STORAGE TEMP.: -30 $^{\circ}$ TO +80 $^{\circ}$.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
CONTACT RESISTANCE: 100m Ω MAX.
INSULATION RESISTANCE: 100M Ω MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
VIBRATION TEST: PASSED METHOD 201A
MIL-STD-202F.
SHOCK TEST: 50G PER METHOD 213B CONDITION
A OF MIL-STD-202F
MATERIALS:
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: BLACK.
CONTACT DISK: STAINLESS STEEL
WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
PACKAGING: TAPE AND REEL
(3,500 PEICES PER REEL)
ROHS COMPLIANT
HAND SOLDERING: 320 $^{\circ}$ C MAX WITH 30 WATT IRON
FOR 2 SECONDS
IR REFLOW: 240 $^{\circ}$ C MAX

CIRCUIT



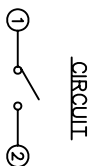
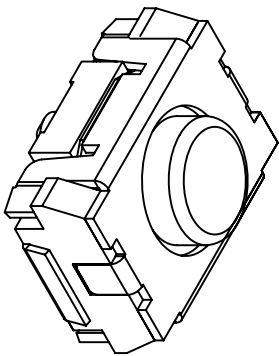
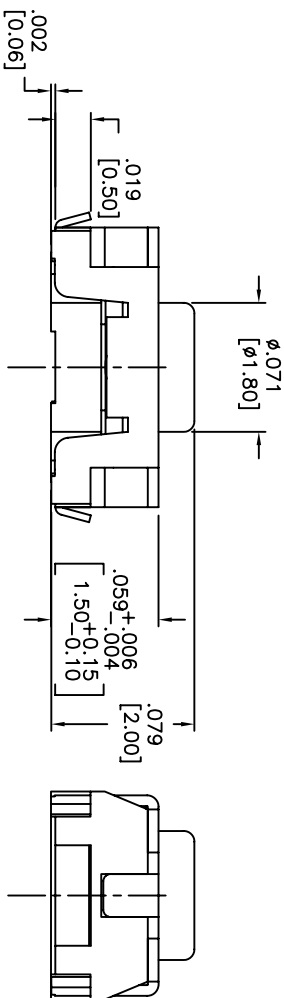
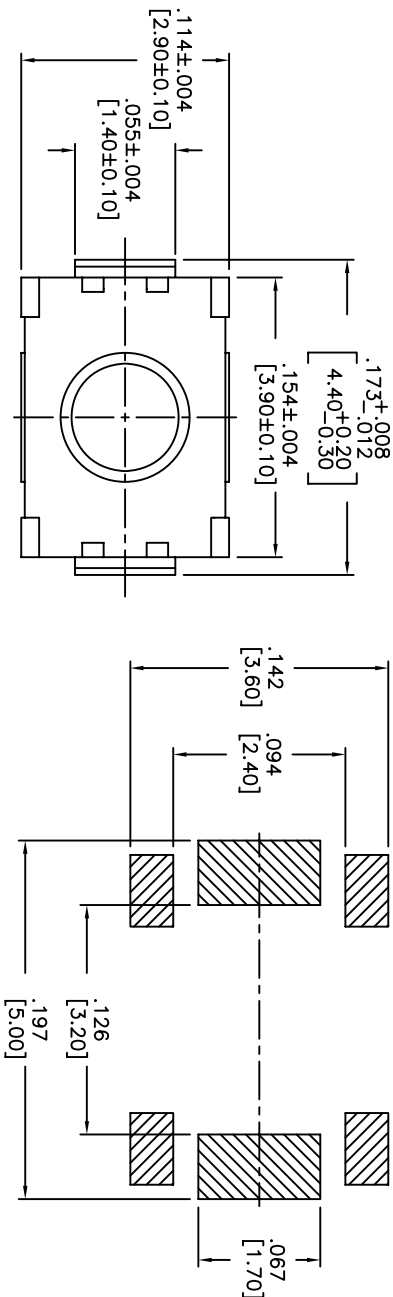
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DATE		DRAWING NO.		REV.	
INCH	SHEET	SIZE	SCALE	THIRD ANGLE PROJECTION		TACT	SWITCH	06/30/05		AMPTCFGVTR		B	
(MM)	1 OF 1	B	15:1										
X.XX=±.02[0.5]		X.XX=±.008[0.20]		X.XXX=±.0008[0.02]		ANGLE = 30.5°							
DO NOT SCALE DRAWING													



63 Neck Rd.
Haverhill, MA 01830
Tel: 978-372-3534
Fax: 978-372-3534

DRN. CJD
BR. PD

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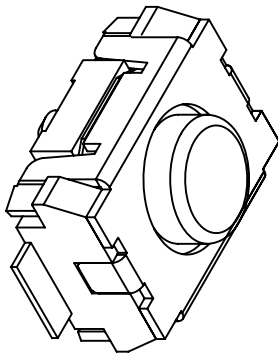
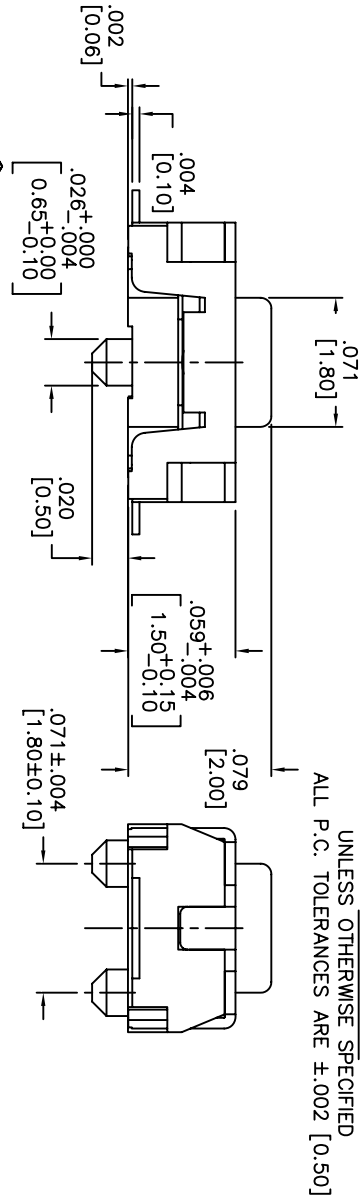
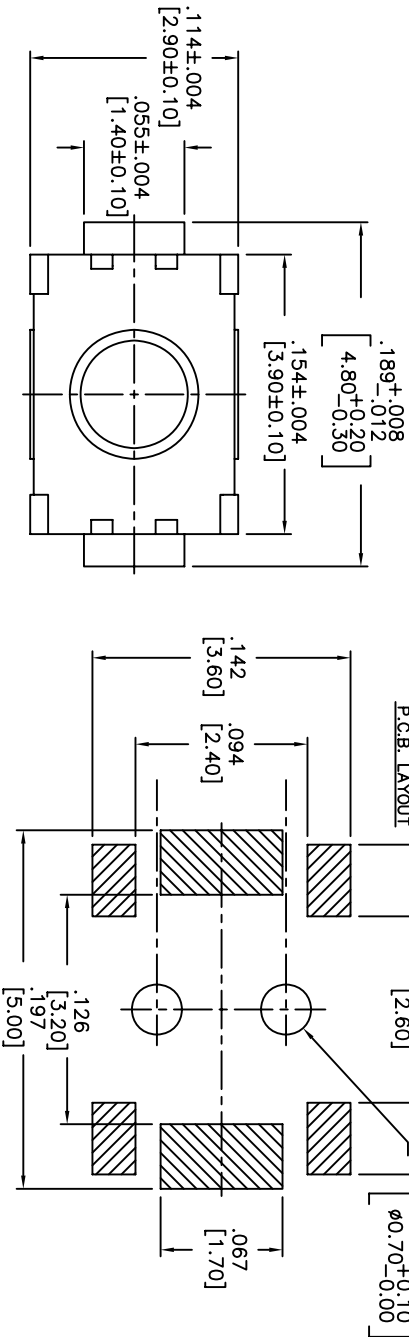


DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 160± 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 213B
MIL-STD-202F
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
MATERIALS:
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: BLACK.
CONTACT DISK: STAINLESS STEEL
WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
TAPE: TEFLON.
TAPE & REEL PACKAGING, 2,000 PER REEL
SOLDERING:
HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS
IR REFLOW: 240°C MAX
RoHS COMPLIANT

Q.A. INSECT.	63 NICK RD.	PER. CJD
DESIGNATES CRITICAL DIMENSION	HOVERHILL, VA 01835	BR: PJD
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	APDM	THIRD ANGLE PROJECTION
.XX±.XX(X)	1 OF 1	SCALE 15:1
.XXX±.XXX(X)	B	SIZE 15:1
.XXXX±.XXXX(X)	15:1	SCALE 15:1
ANGLE = 30.5°	DATE 2/4/08	DRAWING NO. AMPTLGP2VTR
DO NOT SCALE DRAWING		REV B

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CIRCUIT

DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.

SPECIFICATIONS:

OPERATION FORCE: 160 $\pm$ 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 200,000 CYCLES.
RATING: 50ma, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 213B
MIL-STD-202F
CONTACT RESISTANCE: 100m Ω MAX.
INSULATION RESISTANCE: 100M Ω MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
TRAVEL: .005 ^{+.002}_{-.002} [0.13 ^{+.005}_{-.005}]

MATERIALS:

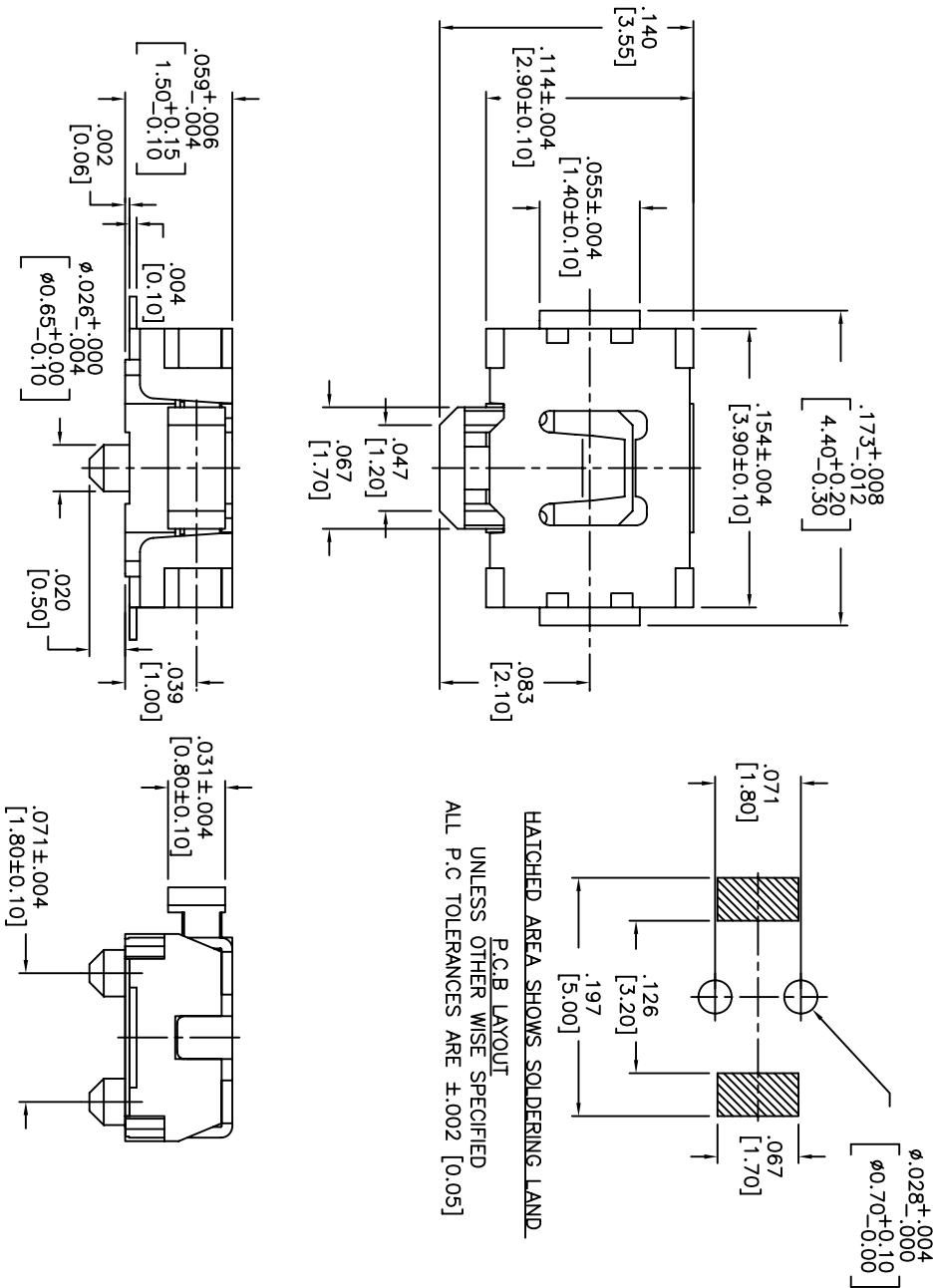
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, BLACK.
CONTACT DISK: STAINLESS STEEL
WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
TAPE & REEL PACKAGING, 2,000 PER REEL
SOLDERING:
HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS
IR REFLOW: 240°C MAX
ROHS COMPLIANT

Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=+0.004[0.5] XXX=+0.0008[0.02] ANGLE = 40.5°		DATE		DRAWING NO.		REV.	
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Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UN							

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DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

HATCHED AREA SHOWS SOLDERING LAND
P.C.B LAYOUT
UNLESS OTHER WISE SPECIFIED
ALL P.C TOLERANCES ARE ±.002 [0.05]



DESCRIPTION: SIDE PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 220± 65gf
STROKE: 0.2±0.08mm
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
VIBRATION TEST: PASSED METHOD 201A
MIL-STD-202F.
SHOCK TEST: 50G PER METHOD 213B CONDITION A OF MIL-STD-202F
MATERIALS:
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, BLACK.
CONTACT DISK: STAINLESS STEEL
WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
PACKAGING: TAPE AND REEL
(3,500 PEICES PER REEL)
ROHS COMPLIANT
LEAD FREE SOLDERING COMPATIBLE
HAND SOLDERING: 320°C MAX WITH 30 WATT IRON
FOR 2 SECONDS
IR REFLOW: 260°C MAX

CIRCUIT



Q.A. INSPECT.	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS AS NOTED) XXX=±.004[0.10] XXXX=±.008[0.20] XXXXX=±.0008[0.02] ANGLE = 40.5°	INCH SHEET 1 OF 1	SIZE B	SCALE 15:1	THIRD ANGLE PROJECTION	DATE 5/2/06	DRAWING NO. AMPTCFVTR	REV B
 APEM Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534			63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534			DRN. CJD CHK. PJD			

REVISION RECORD		DWN.	OK.
DATE	SYM		
1/06	B	ECO# 526	CD PD
5/08	C	ECO# 778	CD PD



SPECIFICATIONS:

OPERATION FORCE: 220+ 6544

OPERATION TEMP.: -25°C TO +70°C.

ELECTRICAL LIFE: 100,000 CYCLES.

RATING: 50mA, 12VDC.

VIBRATION RESISTANCE: PASSES METHOD 201A

SHOCK RESISTANCE: 50G PER METHOD 213B

MIL-STD-202F

CONTACT RESISTANCE: 100mΩ MAX.

DIELECTRIC STRENGTH: 100VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1 POLE 1 THROW.

STROKE: .008 $\pm$.004 [0.2 $\pm$ 0.10]
 $\pm$.002 [-0.05]

MATERIALS:

COVER: STAINLESS STEEL

BASE: LCP HIGH-TEMP. THERMOPLASTIC.

COLOR, WHITE.

STEM:LCP HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

CONTACT DISK: STAINLESS STEEL

WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING

TAPE: TEFLON.

TAPE & REEL PACKAGING, 3500 PER REEL

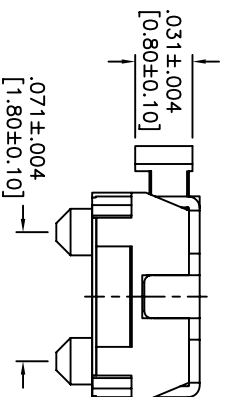
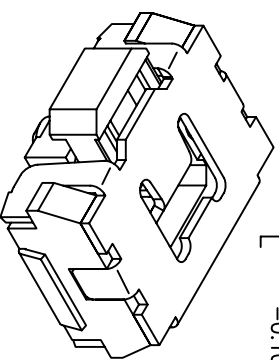
SOLDERING:

HAND SOLDERING: 30 WATT IRON AT 320°C FOR

2 SECONDS

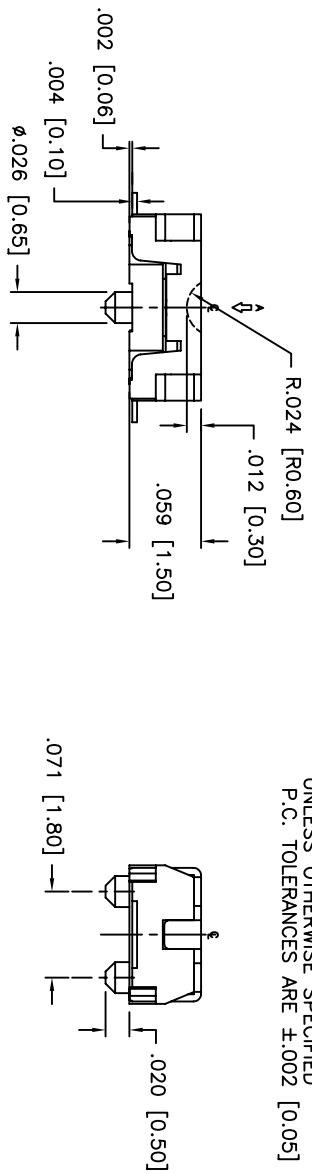
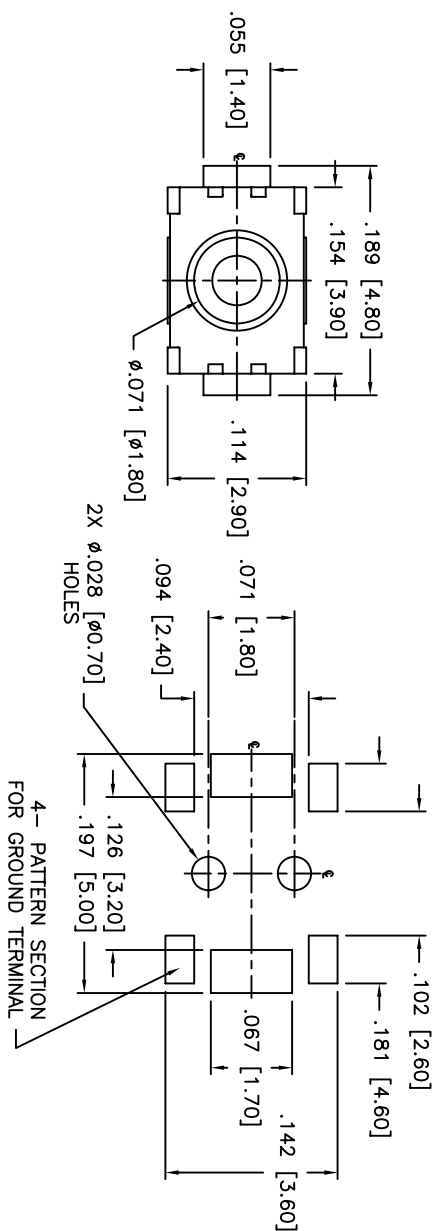
IR REFLOW: 240°C MAX

ROHS COMPLIANT

CIRCUIT

QA INSPECT:	 APM AIRPORT MANAGEMENT 83 Natchez, MD 01835 Tel: 813-978-3172-1602 Fax: 813-972-3534		PRN:	CJD
 DIMENSIONS CRITICAL	TOLERANCES (except as noted) $XX \pm .012$ (5) $XX \pm .008$ (0.20) $XXX \pm .0009$ (0.02) ANGLE = $\pm 0.5^\circ$		BR:	
DO NOT SCALE DRAWING	DATE	DRAWING NO.	CHK:	PJD
	06/30/05	AMPTCLGVTR	BR:	
	TITLE TACT SWITCH		 THIRD ANGLE PROJECTION	
			REV	NC

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DATE	SYM	REVISION RECORD	DWN.	CK.
1/06	A	ECO # 526	CD	PD
5/06	B	ECO# 778	CD	PD

DESCRIPTION: SPST, NORMALLY OPEN, MOMENTARY, SURFACE MOUNT TACT SWITCH WITH LOCATING PINS

SPECIFICATIONS:

CONTACT RATING: 50mA @ 12VDC

INITIAL CONTACT RESISTANCE: 100MOHMS MAX.

INSULATION RESISTANCE: 100MOHMS MIN. @ 500VDC

DIELECTRIC STRENGTH: 100VAC FOR 1 MINUTE

ELECTRICAL LIFE: 200,000 CYCLES MIN.

OPERATING TEMPERATURE RANGE: -25°C to +70°C

STOP STRENGTH: MAX 3kgf VERTICAL STATIC LOAD

CONT. FOR 15 SEC.

ACTUATION FORCE: 160± 50gf

STORAGE TEMPERATURE RANGE: -30°C TO +80°C

SHOCK RESISTANCE: 50G PER METHOD 213B, MIL-STD-202F

VIBRATION RESISTANCE: PASSES METHOD 201A, MIL-STD-202F

SOLDERING:

IR REFLOW: 240°C MAX.

HAND SOLDERING: 350°C MAX. FOR 3 SECONDS MAX. (30 WATT IRON MAX.)

MATERIALS:

BASE: LCP HIGH-TEMP THERMOPLASTIC UL94V-0

ACTUATOR: LCP HIGH-TEMP THERMOPLASTIC UL94V-0

COVER: STAINLESS STEEL

TERMINALS: SILVER PLATED BRASS

SHORTING CONTACT: STAINLESS STEEL WITH SILVER CLADDING

TAPE: TEFLON

RoHS COMPLIANT

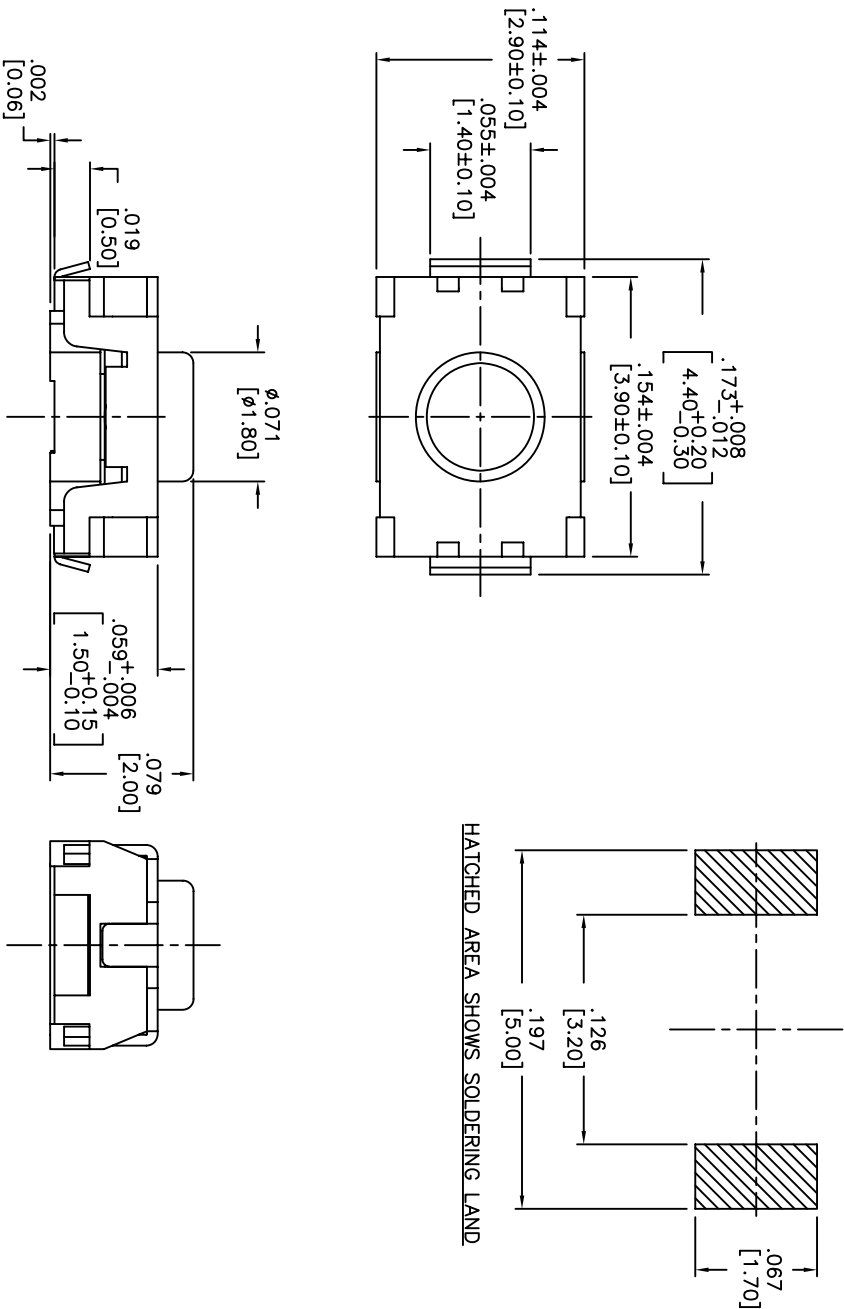
NOTE:

1. AFTER SOLDERING, RETURN SWITCHES TO NORMAL TEMPERATURE BEFORE WASHING.

Q.A. INSPECT.	DESIGNER'S INITIALS	DATE	DRAWING NO.	REV.
APDM	63 Neck Rd. 01850 Haverhill, MA 01850 Tel: 978-372-3534 Fax: 978-372-3534	07/20/05	AMPTCFG1VTR	B
TITLE	SHEET	SIZE	SCALE	THIRD ANGLE PROJECTION
TACT SWITCH WITH LOCATING PINS	1 OF 1	B	10:1	
TOLERANCES (UNLESS OTHERWISE SPECIFIED)				
.XX±.XX [0.5]				
.XXX±.XXX [0.20]				
.XXXX±.XXXX [0.02]				
ANGLE = 30.5°				

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P.C.B. LAYOUT



HATCHED AREA SHOWS SOLDERING LAND

DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.

SPECIFICATIONS:

- OPERATION FORCE: 220 ± 65 gf
- OPERATION TEMP.: -25°C TO $+70^{\circ}\text{C}$.
- STORAGE TEMP.: -30°C TO $+80^{\circ}\text{C}$.
- ELECTRICAL LIFE: 200,000 CYCLES.
- RATING: 50mA, 12VDC.
- VIBRATION RESISTANCE: PASSES METHOD 201A
- MIL-STD-202F
- SHOCK RESISTANCE: 50G PER METHOD 213B
- MIL-STD-202F
- CONTACT RESISTANCE: 100mΩ MAX.
- INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
- DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
- CONTACT ARRANGEMENT: 1 POLE 1 THROW.

MATERIALS:

- COVER: STAINLESS STEEL
- BASE: LCP HIGH-TEMP. THERMOPLASTIC.
- COLOR, WHITE.
- STEM: LCP HIGH-TEMP. THERMOPLASTIC.
- COLOR, BLACK.
- CONTACT DISK: STAINLESS STEEL WITH SILVER CLADDING
- TERMINAL: BRASS WITH SILVER PLATING
- TAPE: TEFLON.
- TAPE & REEL PACKAGING, 2,000 PER REEL

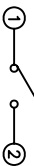
SOLDERING:

- HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS
- IR REFLOW: 240°C MAX

RoHS COMPLIANT

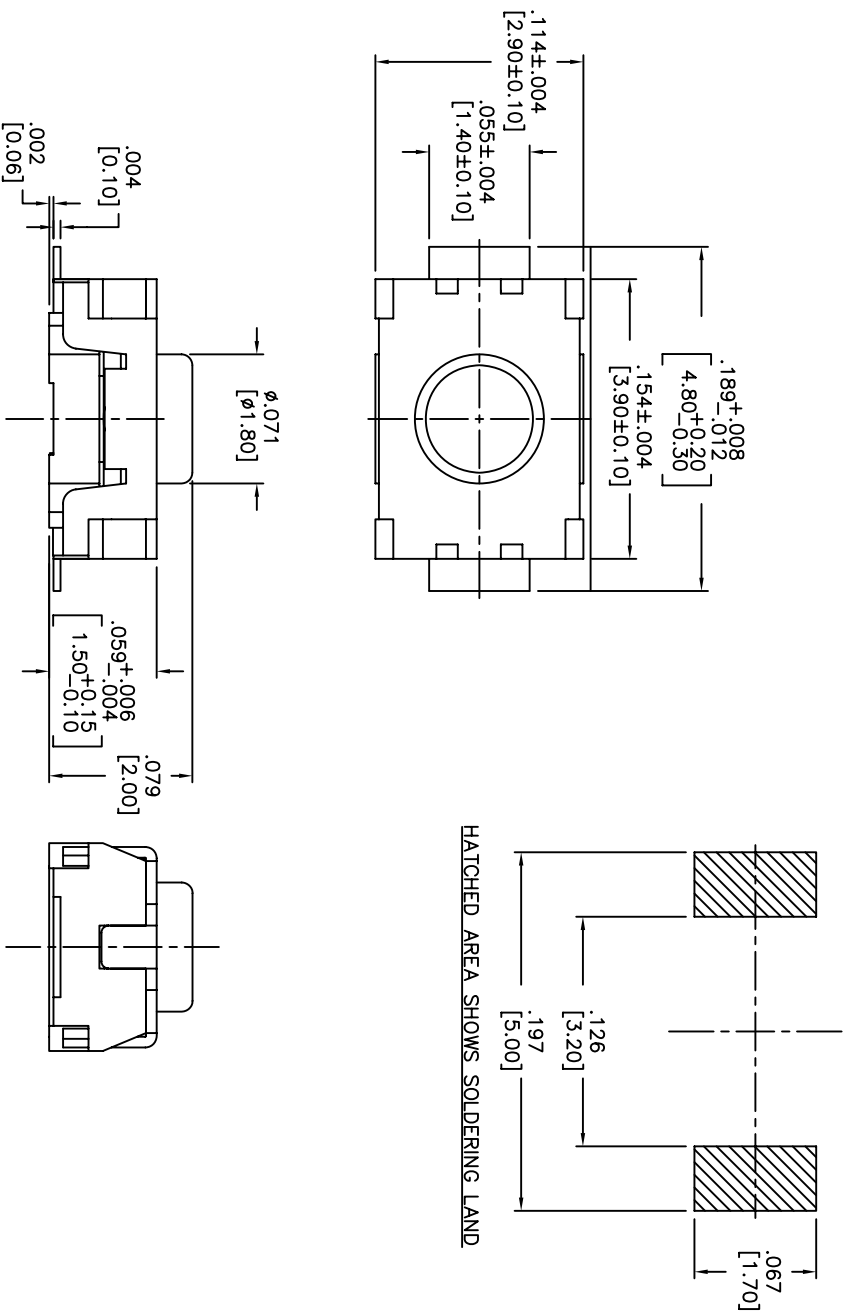
LEAD FREE PROCESS COMPATIBLE

CIRCUIT



Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DO NOT SCALE DRAWING	
APCM		63 Neck Rd. Haverhill, MA 01830		JXX = ±.02 [0.5]		TACT		DATE	
F00378-372-3534		BR: CJD		JXXX = ±.008 [0.20]		SWITCH		01/23/06	
F00378-372-3534		BR: PJD		JXXX = ±.0008 [0.02]		THIRD ANGLE PROJECTION		DRAWING NO.	
				ANGLE = 10.5°				AMPTLP2VTR	
								REV	
								B	

P.C.B. LAYOUT



DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.

SPECIFICATIONS:

OPERATION FORCE: 160± 50gf

OPERATION TEMP.: -25°C TO +70°C.

STORAGE TEMP.: -30°C TO +80°C.

ELECTRICAL LIFE: 200,000 CYCLES.

RAILING: 50mA, 12VDC;
VIBRATION RESISTANCE

VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202FMILE-31D-2021
SHOCK RESISTANCE: 50G PER METHOD 213B

MIL-STD-202F

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.

DIELECTRIC STRENGTH: 100VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1 POLE 1 THROW.

MATERIALS:

COVER: STAINLESS STEEL

BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: WHITE.

COLOR, WHITE.
STEM: 1 CB HIGH-TEA

31EML:ECF HIGH-1EMLF: 1HERMOL-EAS1IC:
COLOR BLACK

CONTACT DISK: STAINLESS STEEL

CONVINO DI DIGNO: C'IMPIEDICO C'ELLE
WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING

TAPE: TEFLON.

TAPE & REEL PACKAGING, 2,000 PER REEL

SOLDERING: _____

HAND SOLDERING: 30 WATT IRON AT 320°C FOR 5 SECONDS

2 SECONDS
IB REEL OW. 200°C MAX

IR REFLOW: 260
POHS COMPLIANT

LEAD FREE PROCESS COMPATIBLE



DATE	SYM	REVISION RECORD	DMN.	CR.
5/08	B	ECO# 778	CD	PD

2A. INSPECT: ∇ DIMENSION		63 NASH RD HOENICHEL TEL: 9378-3772-1602 FAX: 9378-3772-3534		PRN: _____ CJD
DEPARTS CRITICAL DIMENSION				BRN: _____ CJK: _____ PJD
TO FINANCES (except as noted) JXX-±0.02 (±5) JXX-±0.008 (±.001) JXX-±0.0008 (±.002) ANGLE = ±0.5°		INCH (MM)	SHEET 1 OF 1	SIZE B
TITLE TACT SWITCH		SCALE 15:1		THIRD ANGLE PROJECTION 
DO NOT SCALE DRAWING	DATE 01/23/06	DRAWING NO. AMPDTP2VTR	REV B	

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