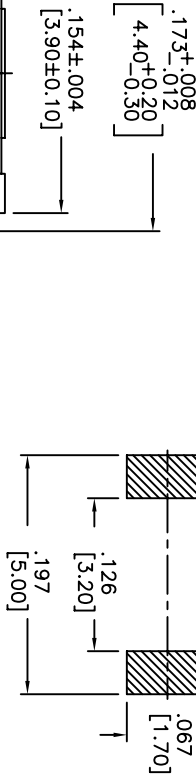
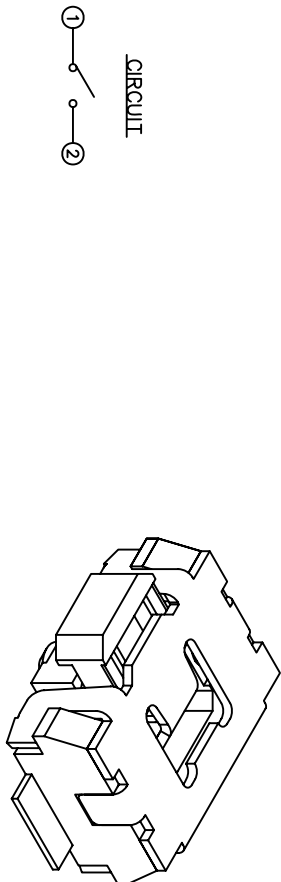
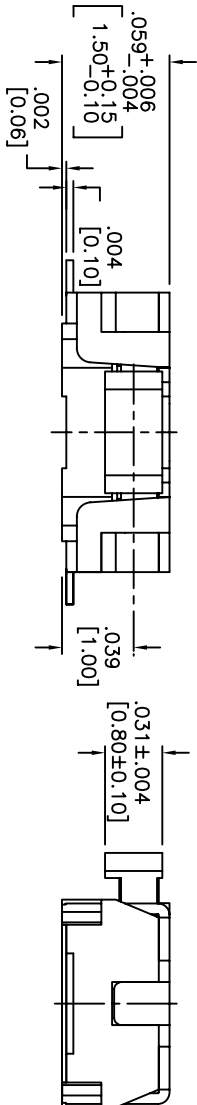
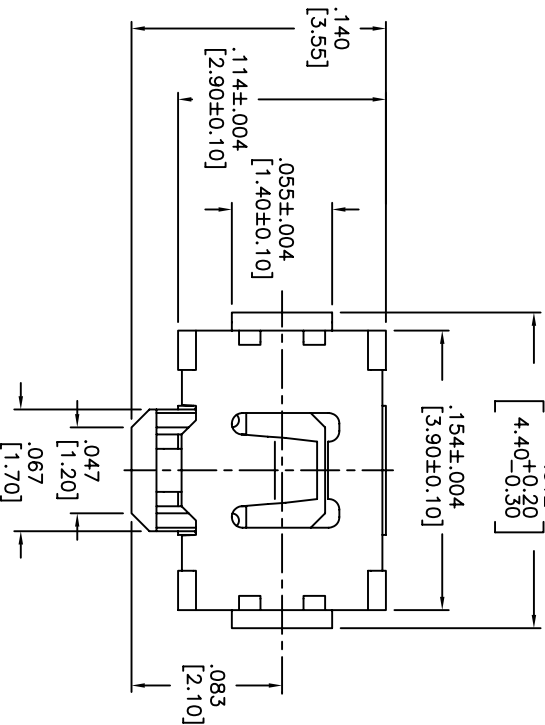


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HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]



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

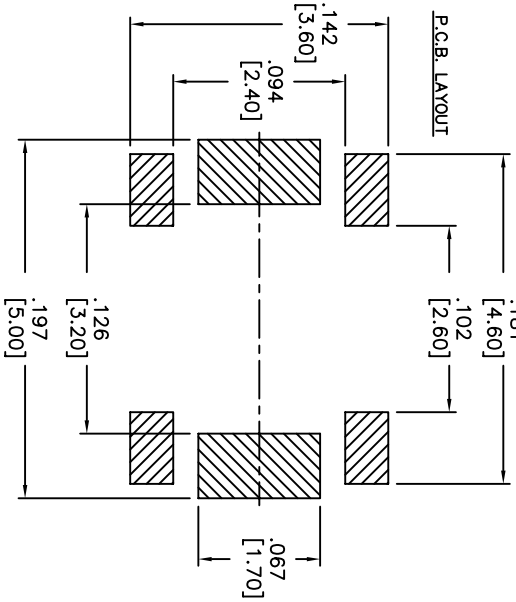
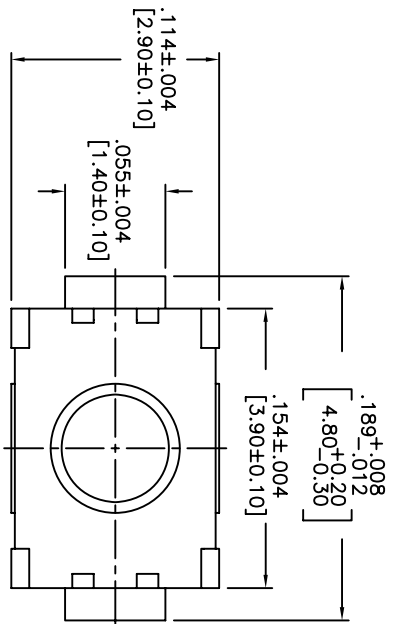
FOR 2 SECONDS

IR REFLOW: 260°C MAX

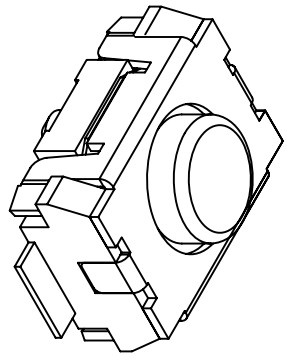
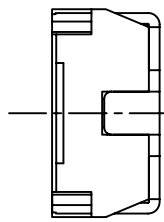
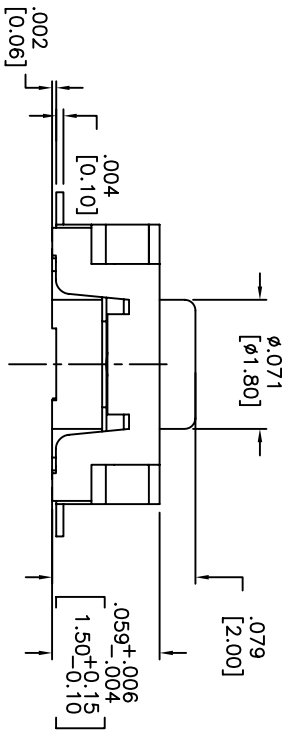
CUSTOMER PART NO.: 263262

Q.A. INSPECT.	DESIGNER'S INITIAL	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	DATE	DRAWING NO.	REV.
APEN	63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534	INCH (MM) 1 OF 1 B 15:1 THIRD ANGLE PROJECTION	7/31/06	AMPTFVTR	A

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HATCHED AREA SHOWS SOLDERING LAND



CIRCUIT

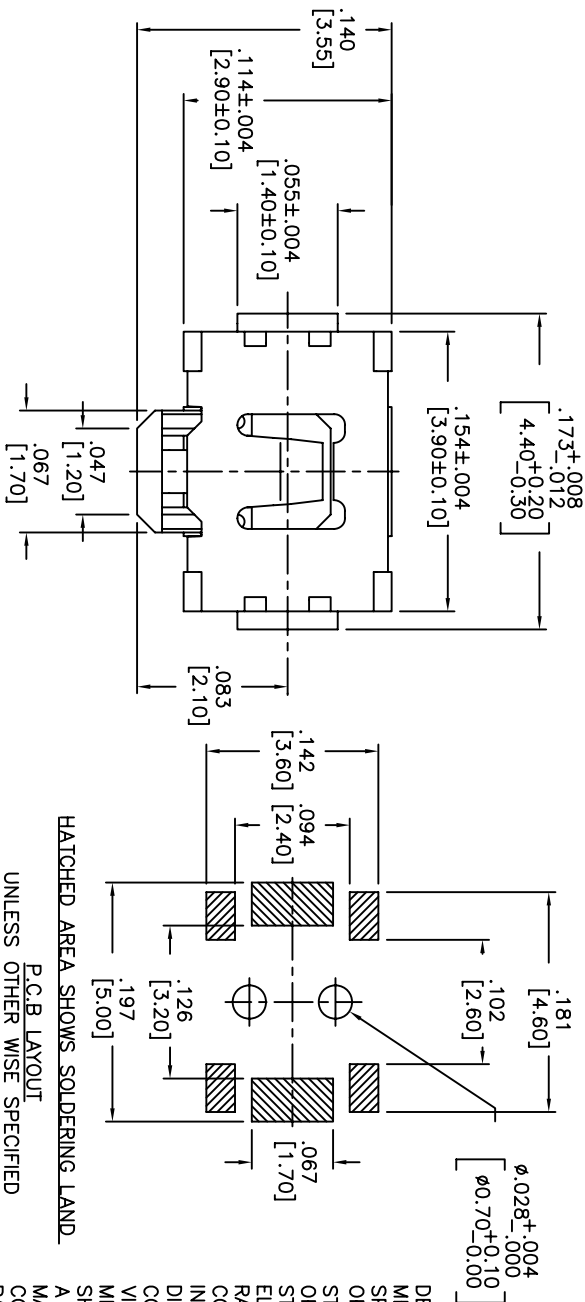
DATE	SYM	REVISION	RECORD	DWN.	CK.
5/08	B	ECO# 778		CD	PD

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

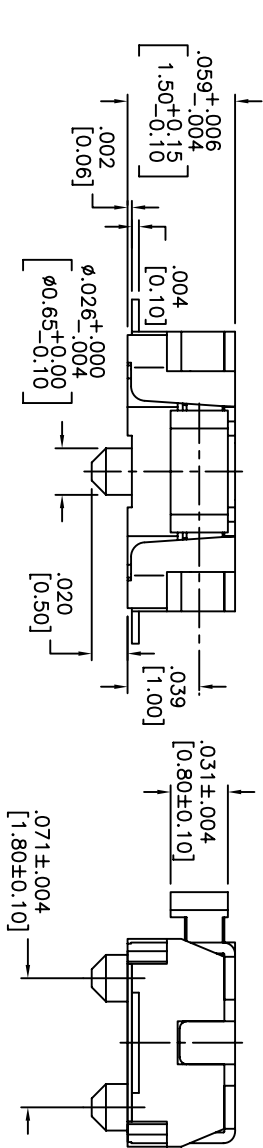
Q.A. INSPECT:		63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534		DRN. CJD
DESIGNATES CRITICAL DIMENSION		APM		OK. PJD
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		INCH	SHEET	SIZE
.004±.002[0.5]		1	OF 1	B
.004±.004[0.20]		SCALE	15:1	
.004±.008[0.02]		THIRD ANGLE PROJECTION		
ANGLE = 40.5°				
DATE		DRAWING NO.		REV
2/4/08		AMPTFGP2VTR		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

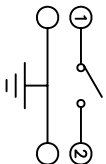


HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHER WISE SPECIFIED
ALL P.C. TOLERANCES ARE $\pm .002$ [0.05]



DESCRIPTION: SIDE PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 220 $\pm$ 65gf
STROKE: 0.2[±]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



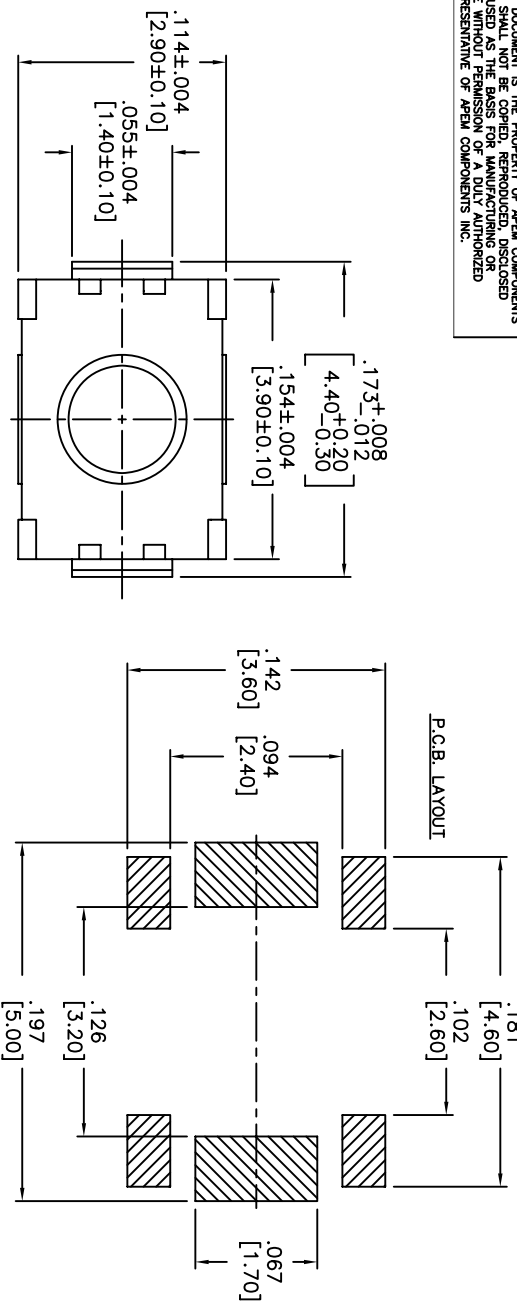
Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DATE		DRAWING NO.		REV.	
INCH		SHEET		SCALE		THIRD ANGLE PROJECTION		06/30/05		AMPTCFGVTR		B	
1 OF 1		B		15:1		TACT SWITCH							
X.XX $\pm$ 0.02 [0.5]													
.XXX $\pm$ 0.004 [0.20]													
.XXX $\pm$ 0.0008 [0.02]													
ANGLE = 30.5 $^{\circ}$													



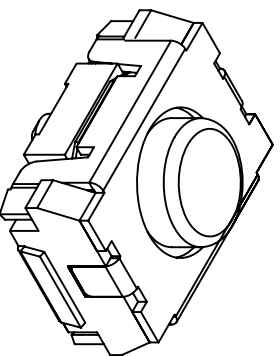
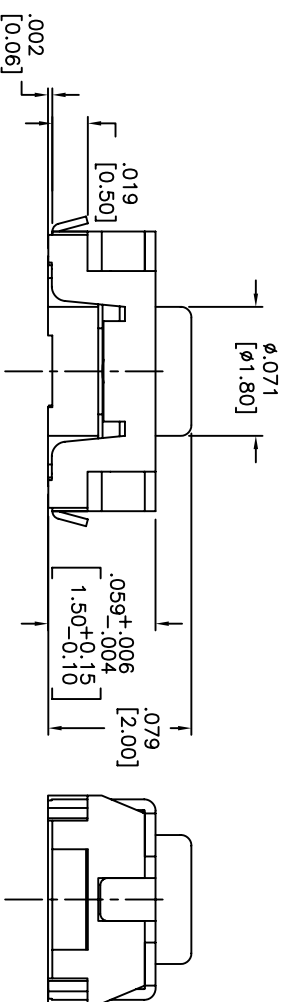
63 Neck Rd.
Haverhill, MA 01830
Tel: 978-372-3534
Fax: 978-372-3534

DRN. CJD
BR. OK.
PD

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HATCHED AREA SHOWS SOLDERING LAND

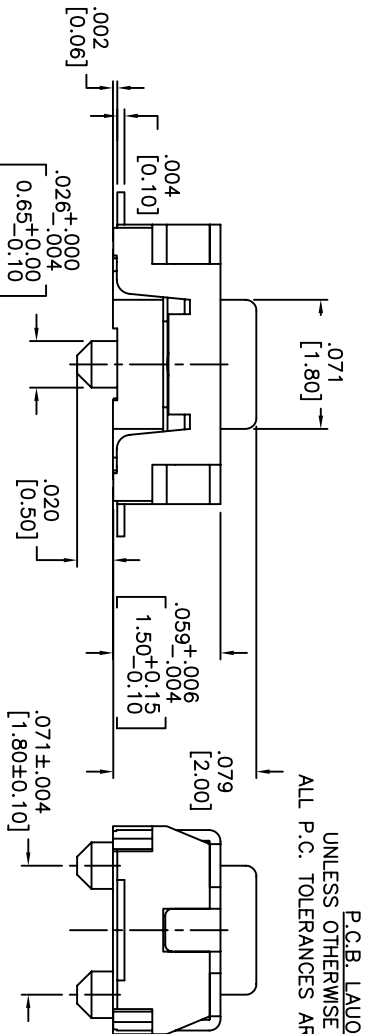
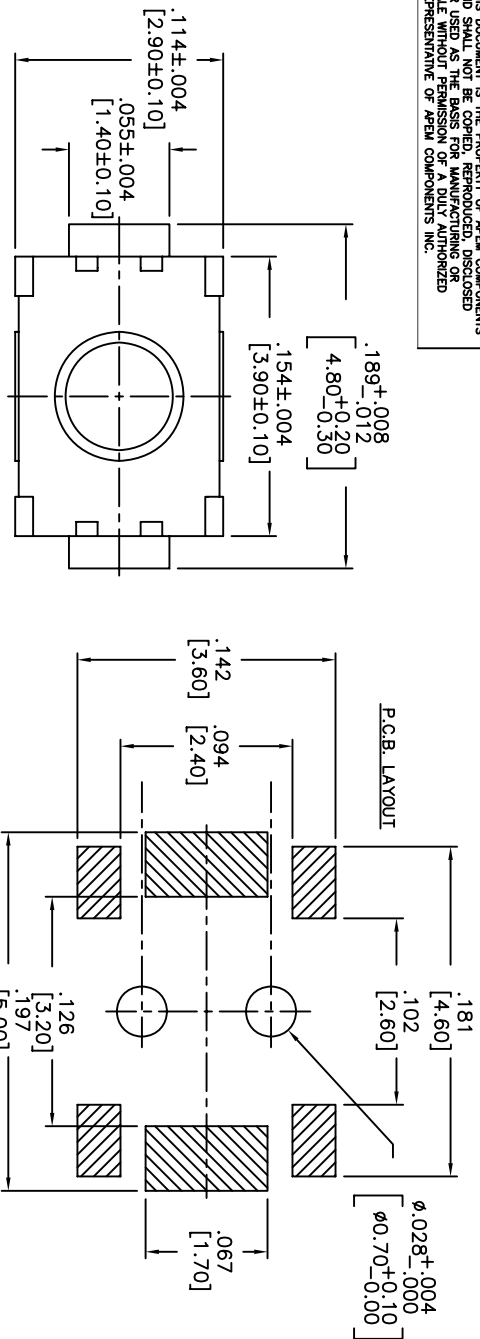
CIRCUIT

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

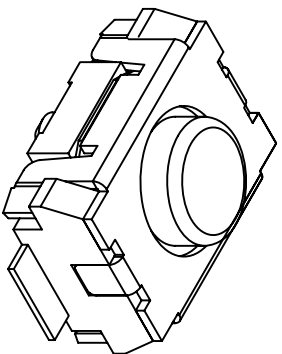
DESCRIPTION: VERTICAL PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 160± 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 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.
TAP & 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 △		DESIGNATES CRITICAL DIMENSION		 63 N. High Rd. 101-8355 Tel: 878-372-1802 Fax: 878-372-3534 www.apdm.com		DRN. BPN. CHK. GK.	CJD
TOLERANCES (except as noted) X.XXX ± .02(0.5%) X.XXX ± .008(0.20) X.XXX ± .0008(0.02) ANGLE = ±0.5°		INCH SHEET SIZE SCALE (MM) 1 OF 1 B 15:1		 THIRD ANGLE PROJECTION			
TITLE VERTICAL PUSH TACT SWITCH		DATE 2/4/08		DRAWING NO. AMPITLGP2VTR		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:

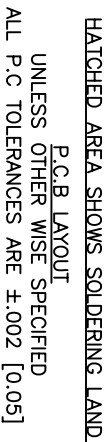
OPERATION FORCE: 160[±] 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 200,000 CYCLES.
RATING: 50ma, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 213B
MIL-STD-202F
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
DIELECTRIC STRENGTH: 100VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1 POLE 1 THROW.
TRAVEL: .005 ^{+0.003}_{-.002} [0.13 ^{+0.08}_{-0.05}]

MATERIALS:

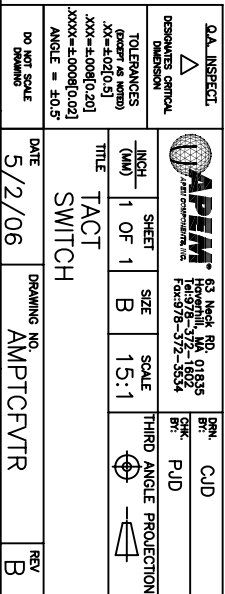
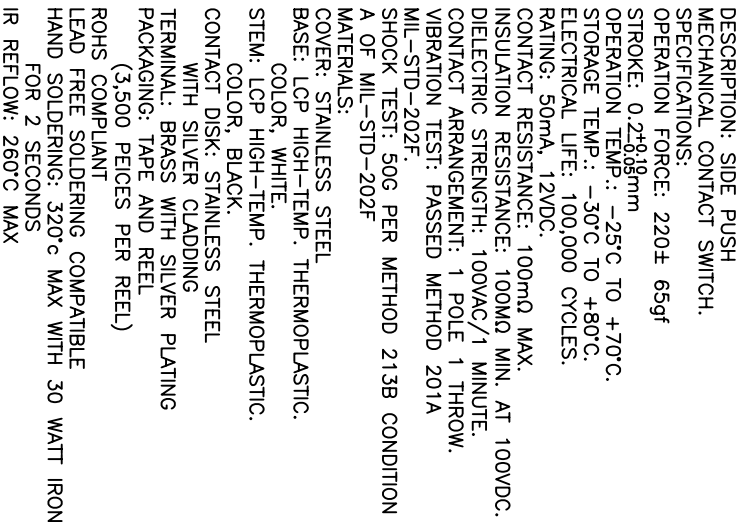
COVER: STAINLESS STEEL
BASE: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, WHITE.
STEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR, BLACK.
CONTACT DISK: STAINLESS STEEL
WITH SILVER CLADDING
TERMINAL: BRASS WITH SILVER PLATING
TAPE & REEL PACKAGING, 2,000 PER REEL
SOLDERING:
HAND SOLDERING: 30 WATT IRON AT 320°C FOR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

Q.A. INSPECT.	△	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS AS NOTED) XX=±.02[0.5] XXX=±.008[0.20] XXXX=±.0008[0.02] ANGLE = 40.5°			DO NOT SCALE DRAWING
			TITLE TACT SWITCH			DATE 6/30/05
P/N: CJD B/R: PJD C/R: PJD			SHEET 1 OF 1	SIZE B	SCALE 15:1	DRAWING NO. AMPTCFGP2VTR
THIRD ANGLE PROJECTION 			REV B			

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



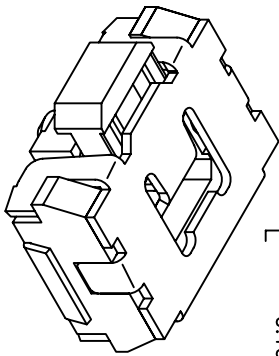
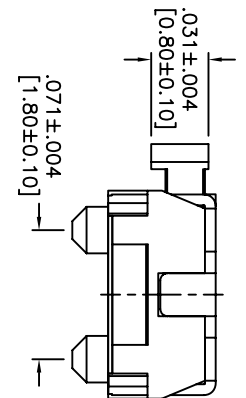
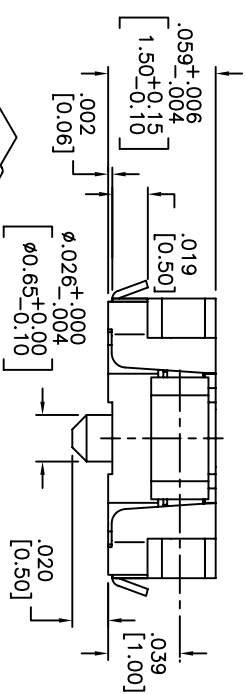
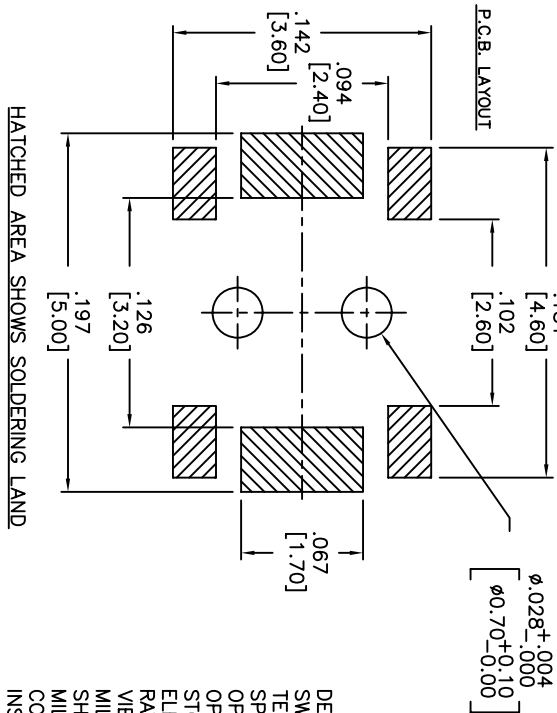
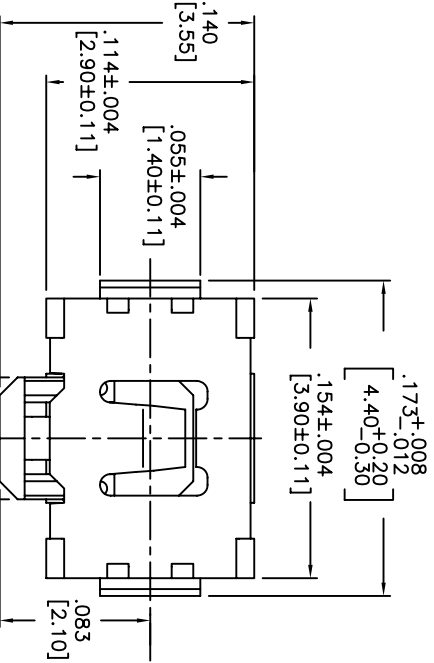
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ± 0.02 [0.05]



QA INSPECT 		DESIGNATE CONTROL DIMENSION		TOLERANCES DECIMALS (except as noted) .XXX = ±0.001(0.5) .XXXX = ±0.0008(0.20) .XXXXX = ±0.0008(0.025) ANGLE = ±0.5°	
APEN APPLIED ENGINEERING, INC.		 APEN APPLIED ENGINEERING, INC.		83 Mack Rd. Haverhill, MA 01835 Tel: 978-372-1602 Fax: 978-372-5534	
DATE 5/2/06		DRAWING NO. AMPTCFVTR		REV. B	
TITLE TACT SWITCH		INCH (MM)		SHEET 1 OF 1	
		SIZE B		SCALE 15:1	
		THIRD ANGLE PROJECTION 		P/N: CJD B/N: CKR P/D:	

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



CIRCUIT

DESCRIPTION: SIDE PUSH MECHANICAL CONTACT SWITCH, WITH BENDING AND GROUNDING TERMINALS.

SPECIFICATIONS:

OPERATION FORCE: 220± 65gf

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.

STROKE: .008 ±.004 [0.2 ±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, 3500 PER REEL

TACT SWITCH

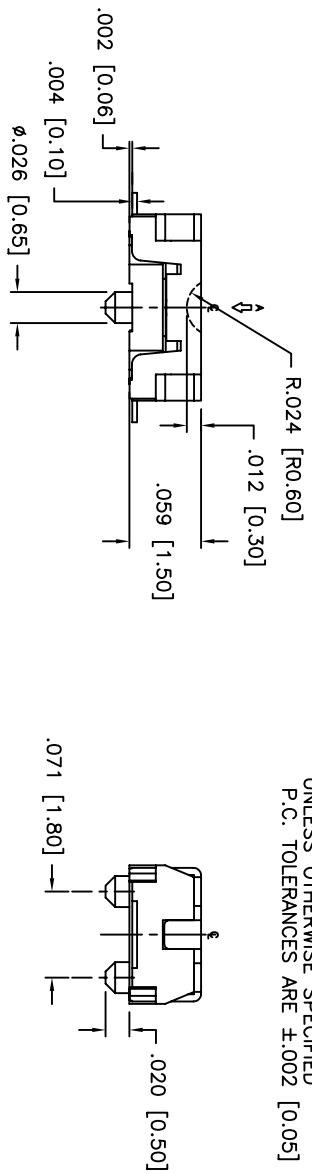
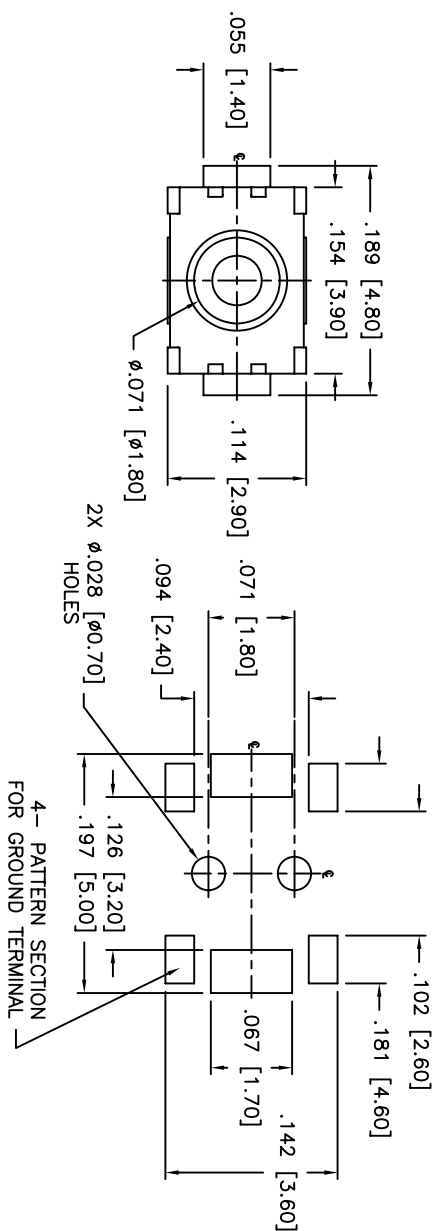
HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS

IR REFLOW: 240°C MAX

RoHS COMPLIANT

Q.A. INSPECT	DESIGNATES CRITICAL	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	ANGLE = 40.5°
INCH	SHEET 1 OF 1	SIZE B	SCALE 15:1
TITLE	TACT SWITCH	THIRD ANGLE PROJECTION	
DATE	06/30/05	DRAWING NO.	AMPTCLGVTR
REV	C		

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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

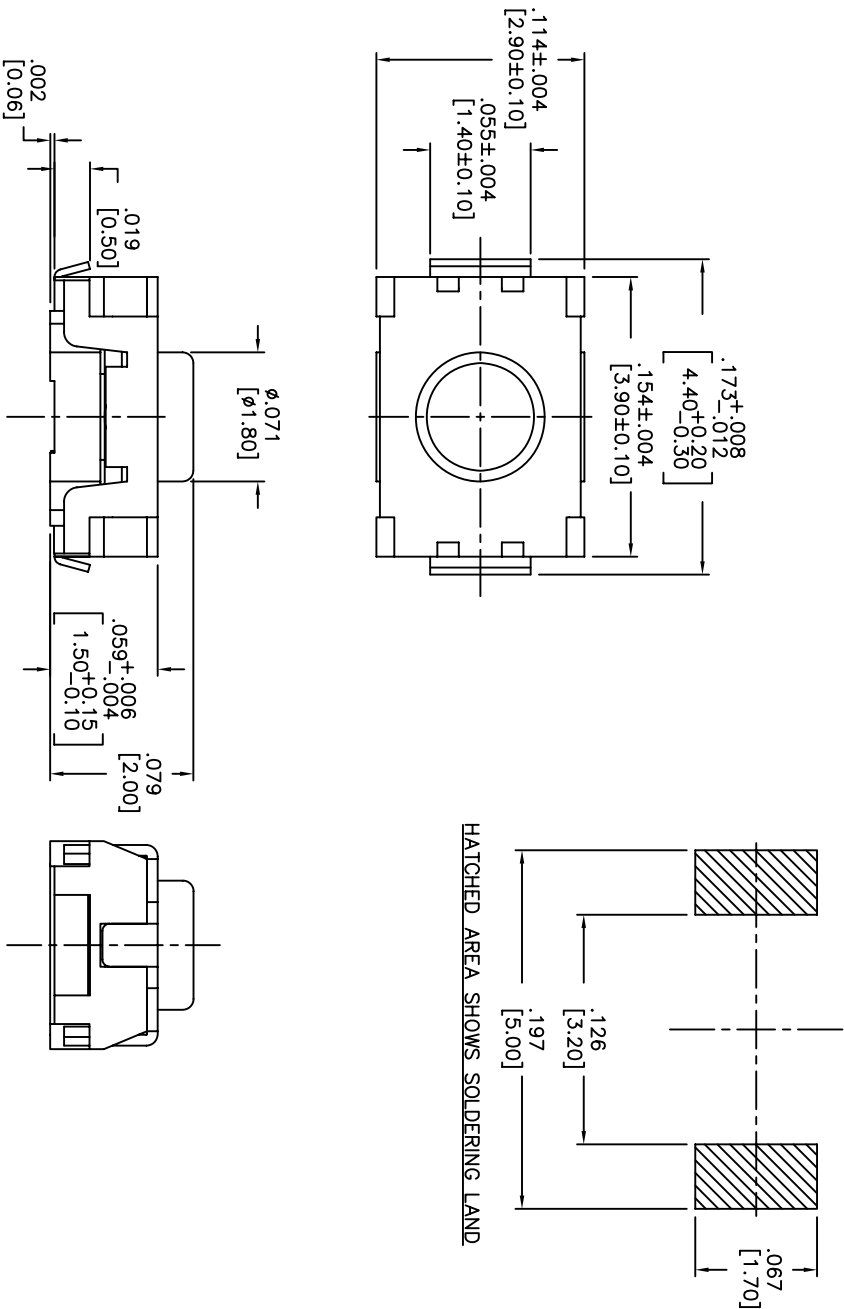
NOTE:

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

Q.A. INSPECT.	DESIGNER'S INITIAL	DATE	DRAWING NO.	REV.
APDM	63 Neck Rd. 01835 Haverhill, MA 01835 Tel: 978-372-3534 Fax: 978-372-3534	07/20/05	AMPTCFG1VTR	B
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	SHEET 1 OF 1	SIZE B	SCALE 10:1	THIRD ANGLE PROJECTION
.X0 = ±.02 [0.5] .X00 = ±.008 [0.20] .X000 = ±.0008 [0.02] ANGLE = ±0.5°	TITLE TACT SWITCH WITH LOCATING PINS			

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P.C.B. LAYOUT



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

DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.

SPECIFICATIONS:

OPERATION FORCE: 220± 65gf

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: 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:

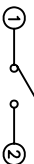
HAND SOLDERING: 30 WATT IRON AT 320°C FOR

2 SECONDS

IR REFLOW: 240°C MAX

RoHS COMPLIANT

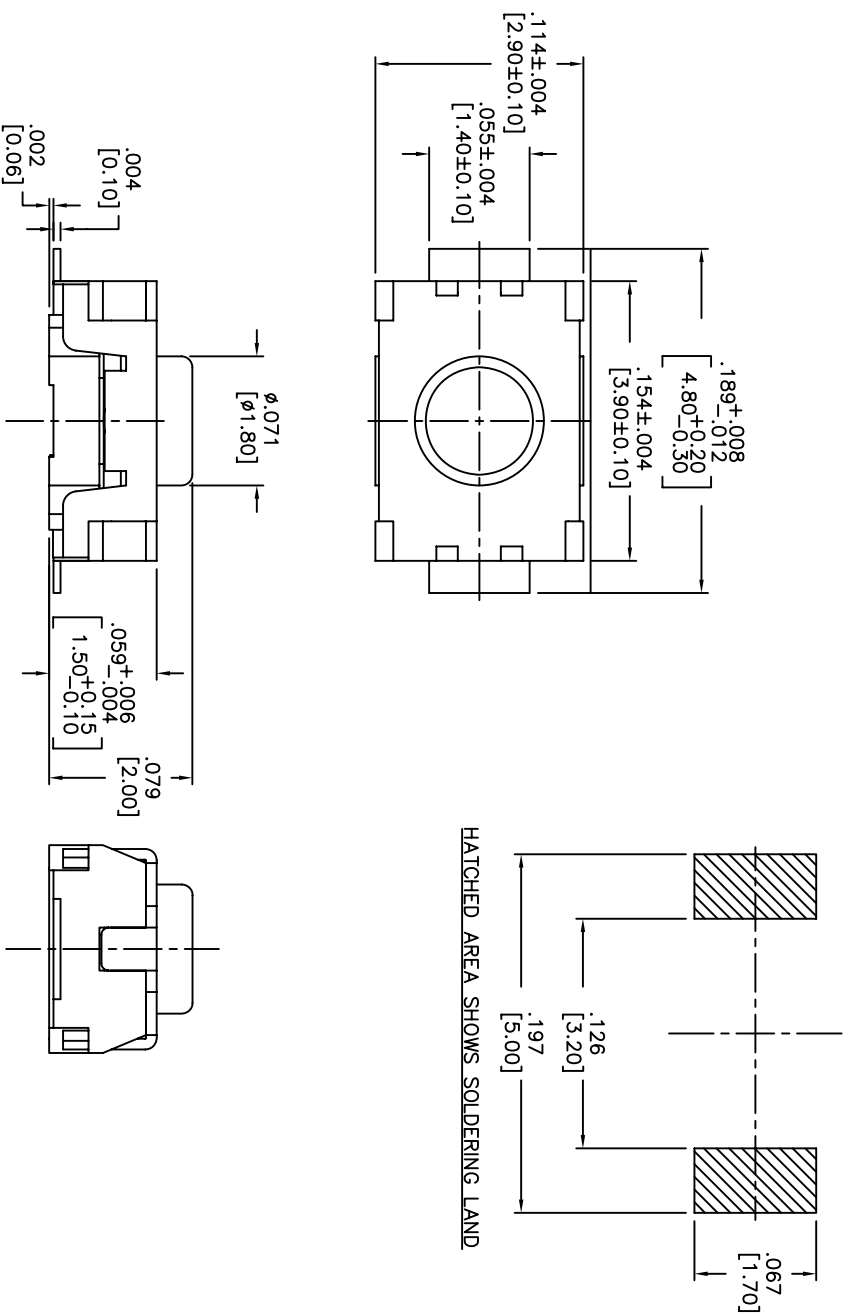
LEAD FREE PROCESS COMPATIBLE



CIRCUIT

Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DATE		DRAWING NO.		REV	
APDM		63 Neck Rd. Haverhill, MA 01830		100±.004 [0.20]		TACT		01/23/06		AMPTLP2VTR		B	
APDM		FAX: 978-372-3534		.000±.0008 [0.02]		SWITCH							
		FAX: 978-372-3534		ANGLE = 10.5°									

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.

VIBRAÇION RESISTANCE: PASSES MEIHOD 201A
MIL-STD-202E

MIL-STD-202F
SHOCK RESIST

STOCK RESIDUAL: 000 1 LN METHOD 2 100

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.

SIEM: LCP HIGH-TEMP. THERMOPLASTIC.
COLOR: BLACK

COLOR, BLACK.
CONTACT DISK: STAINLESS STEEL

CONNOI DI DIORI. C'AMMESSO 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 3 SECONDS

2 SECONDS

IR REF LOW: 260
BACS COMPLANT

LEAD FREE PROCESS COMPATIBLE

LEAD LINE PROCESS COMM AIDEE



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

2A. INSPECTED 		DESIGNATES OPTICAL DIMENSION		DRN. CJD BY:	
TOLERANCES (EXCEPT AS NOTED) .XXX $\pm$.02 @ 0.51 .XXX $\pm$.008 @ 0.20 .XXX $\pm$.0008 @ 0.02 ANGLE = $\pm$ 0.5°		 #3 NASH RD. Haverhill, MA 01835 Tel: 978-372-1802 Fax: 978-372-3534 APL COMPANY, INC.		CHK. PJD BY:	
TITLE TACT SWITCH		INCH (MM)	SHEET 1 OF 1	SIZE B	SCALE 15:1
DATE 01/23/06		DRAWING NO. AMPPTFP2VTR		THIRD ANGLE PROJECTION 	
DO NOT SCALE DRAWING				REV B	