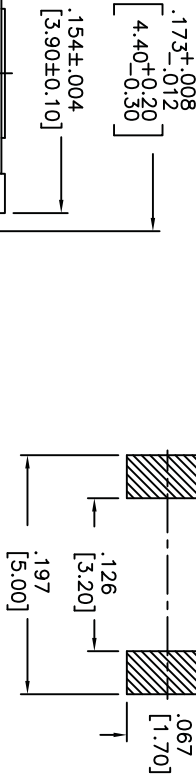
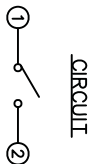
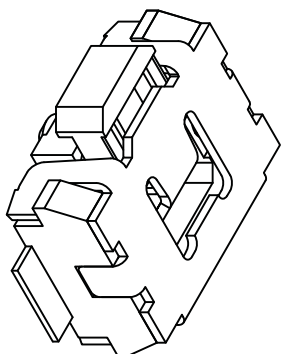
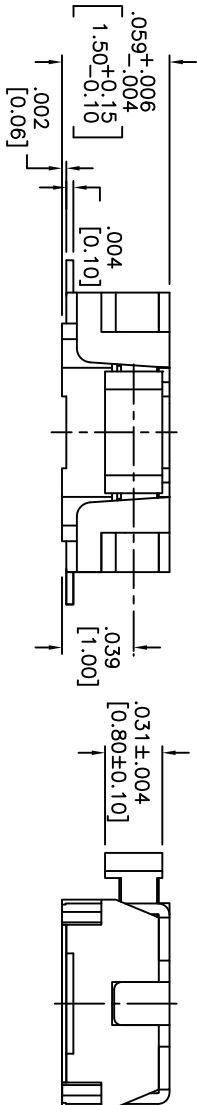
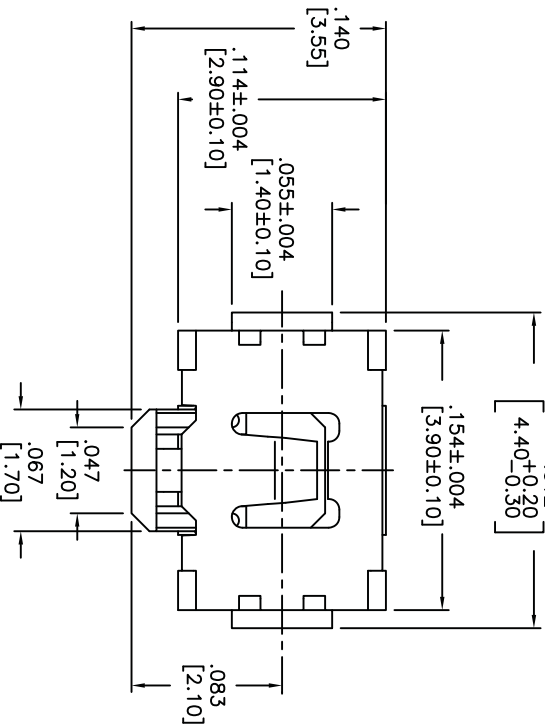


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HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]



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±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 PIECES PER REEL)

ROHS COMPLIANT

LEAD FREE SOLDERING COMPATIBLE

HAND SOLDERING: 320°C MAX WITH 30 WATT IRON

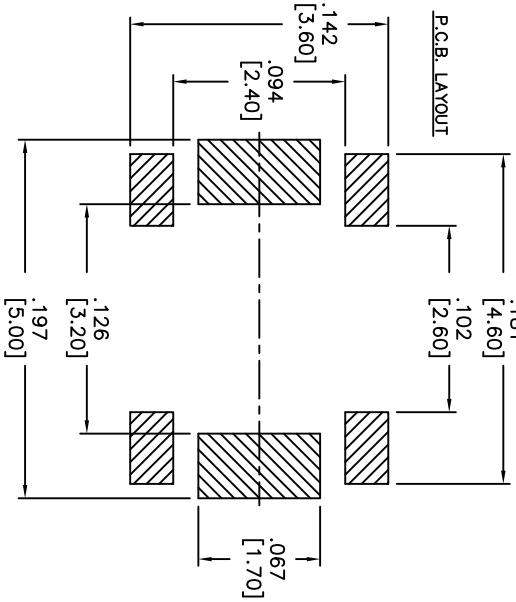
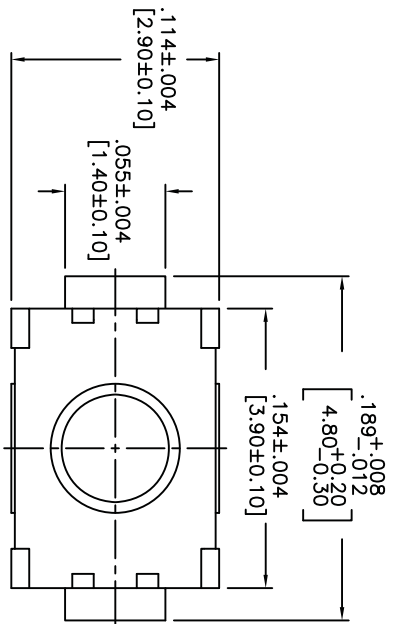
FOR 2 SECONDS

IR REFLOW: 260°C MAX

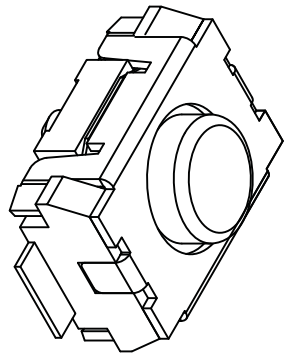
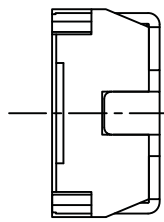
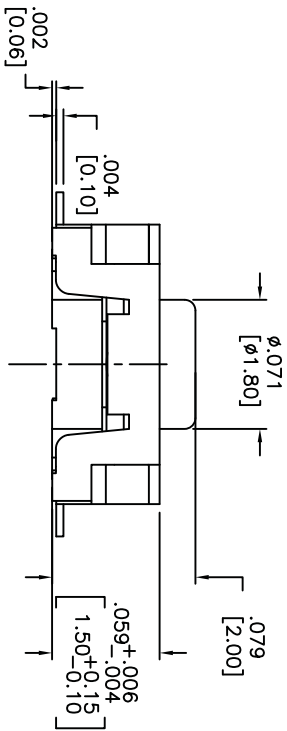
CUSTOMER PART NO.: 263262

Q.A. INSPECT	DESIGNER'S INITIAL	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	DATE	DRAWING NO.	REV
APDM	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

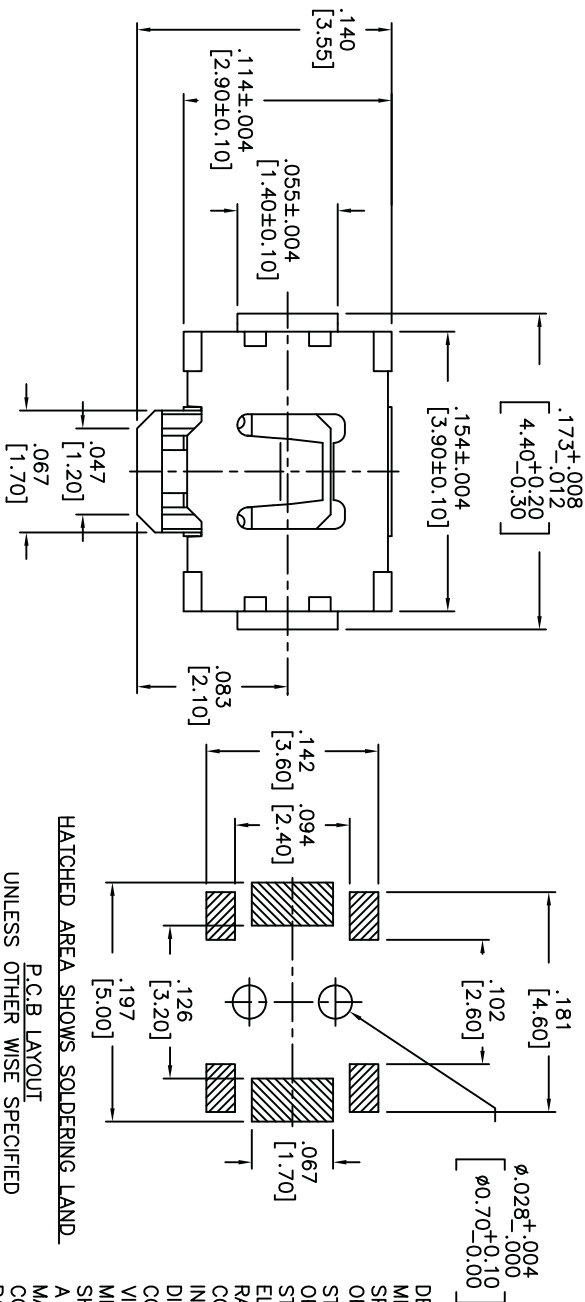
DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

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

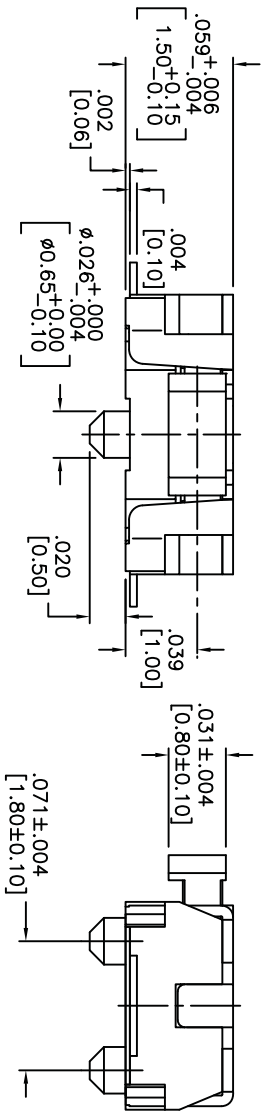
Q.A. INSPECT:	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS AS NOTED) XX±.XX[0.X] XXX±.XXX[0.XX] ANGLE = 30.5°	DATE 2/4/08	DRAWING NO. AMPTFGP2VTR	REV B
 63 Neck Rd. Haverhill, MA 01830 Phone: 978-372-3534 Fax: 978-372-3534			PRN. CJD BR: PJD		
TITLE VERTICAL PUSH TACT SWITCH			THIRD ANGLE PROJECTION		

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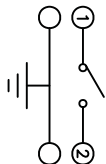
DATE	SYM	REVISION RECORD	DWN.	CK.
01/06	A	ECO # 526	CD	PD
5/08	B	ECO# 778	CD	PD



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



CIRCUIT



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

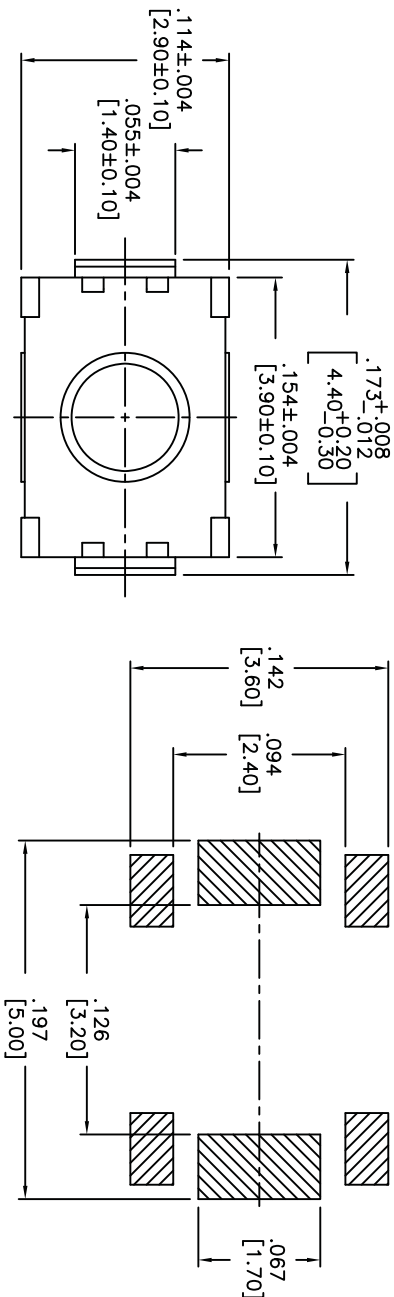
HAND SOLDERING: 320 $^{\circ}$ C MAX WITH 30 WATT IRON

FOR 2 SECONDS

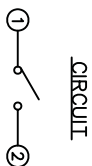
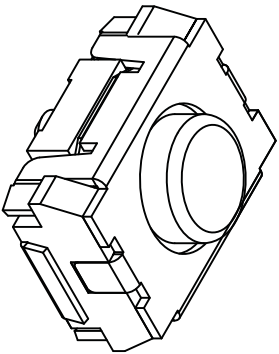
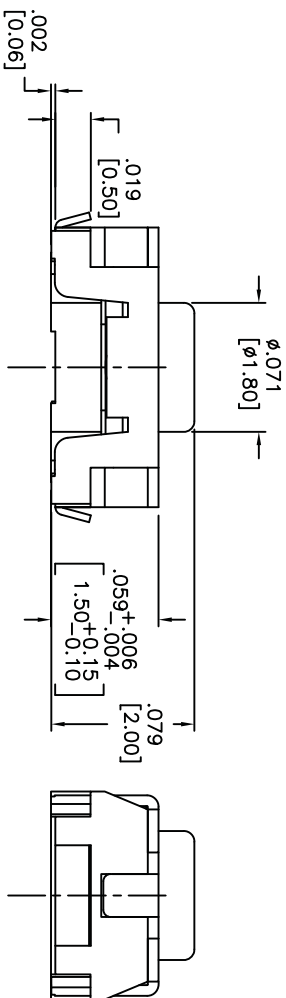
IR REFLOW: 240 $^{\circ}$ C MAX

Q.A. INSPECT.	DESIGNATES CRITICAL	INCH	SHEET	SIZE	SCALE	THIRD ANGLE PROJECTION	REV.
		(MM)	1 OF 1	B	15:1		
		TITLE					
		TACT					
		SWITCH					
		DATE					
		06/30/05					
		DRAWING NO.					
		AMPTCFGVTR					
		REV					
		B					

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HATCHED AREA SHOWS SOLDERING LAND

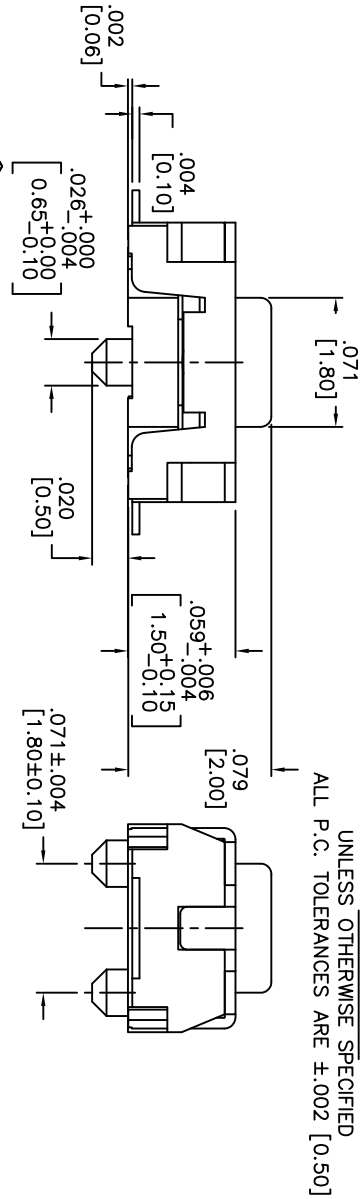
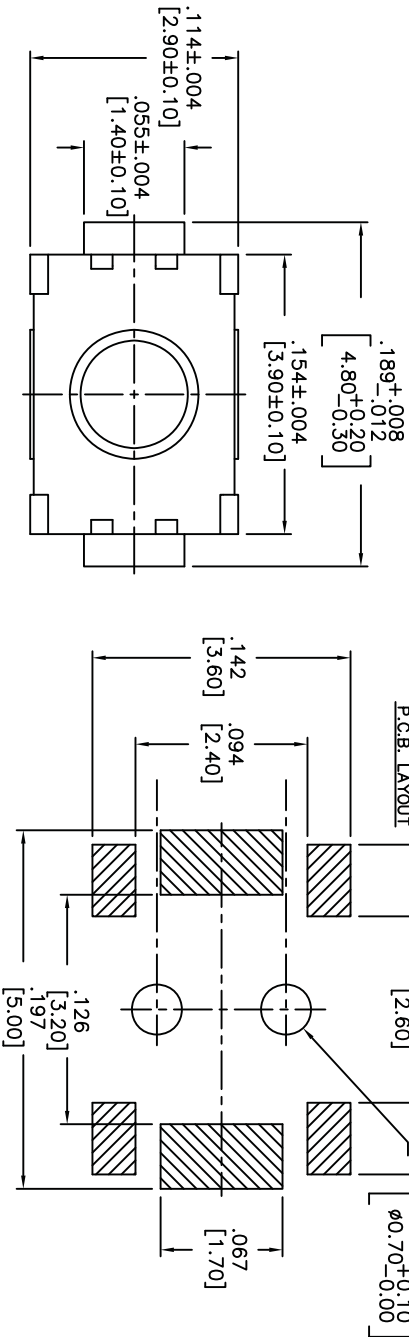


DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

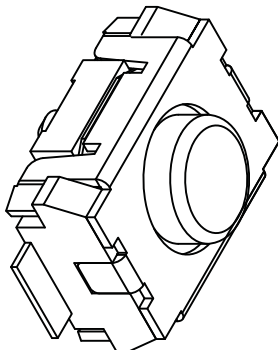
DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 160± 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD 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 Mack Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534		DRN.	CJD
DESIGNATES CRITICAL DIMENSION		APDM		BR:	PJD
TOLERANCES (UNLESS AS NOTED)		INCH		THIRD ANGLE PROJECTION	
.XX=±.02(0.5)		SHEET		1 OF 1	
.XX=±.008(0.20)		SIZE		15:1	
.XXX=±.0008(0.02)		SCALE		15:1	
ANGLE = ±0.5°		TITLE		VERTICAL PUSH	
		DATE		TACT SWITCH	
DO NOT SCALE DRAWING		2/4/08		DRAWING NO.	
				AMPTLGP2VTR	
				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 ^{+.003}_{-.003}]

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

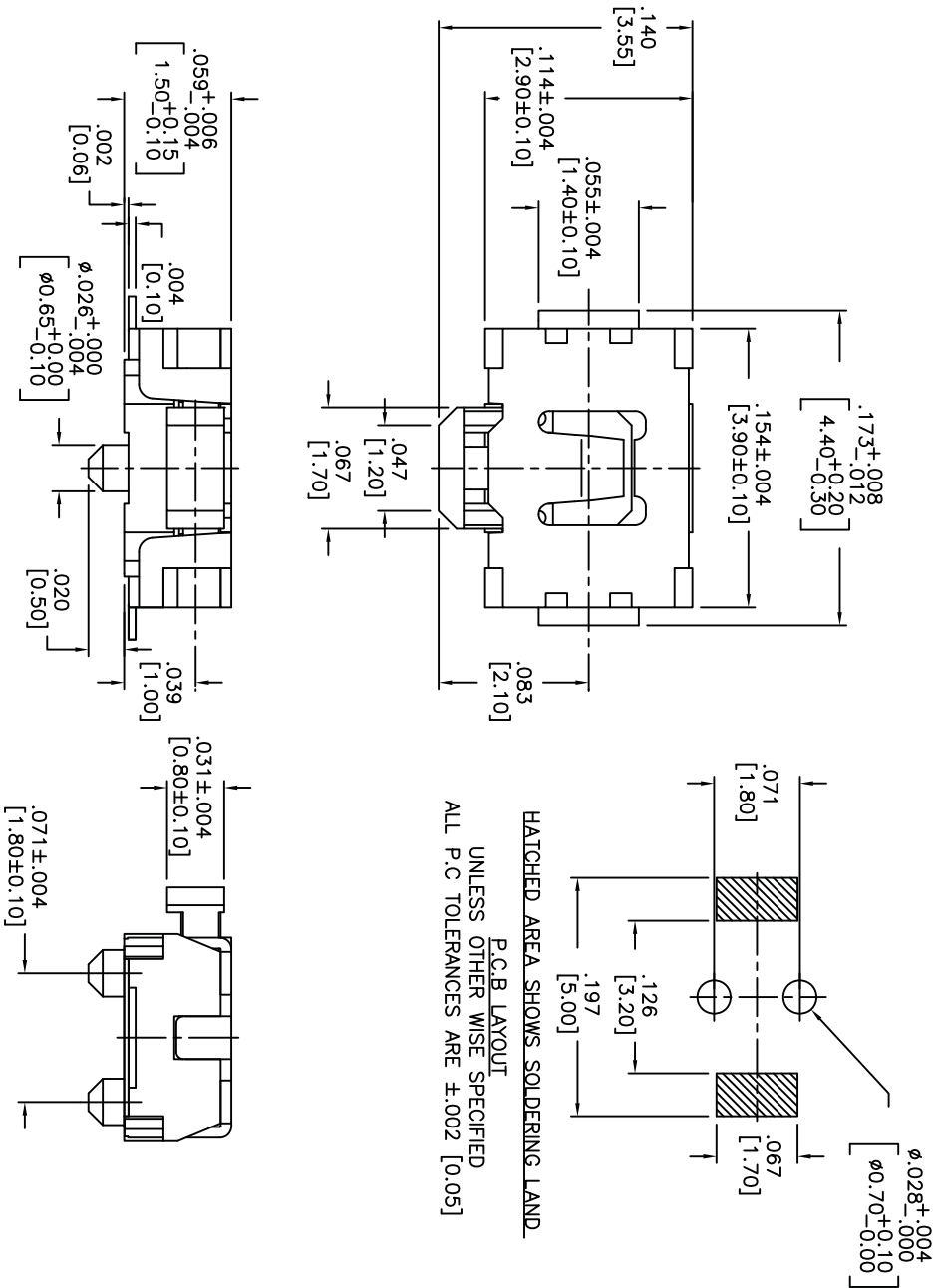
RoHS COMPLIANT

Q.A. INSPECT.	DESIGNATES CRITICAL	TOLERANCES (UNLESS AS NOTED)	ANGLE = 40.5°
INCH	SHEET 1 OF 1	SIZE B	SCALE 15:1
TITLE TACT SWITCH		THIRD ANGLE PROJECTION	
DATE 6/30/05	DRAWING NO. AMPTCFGP2VTR	REV B	

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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]

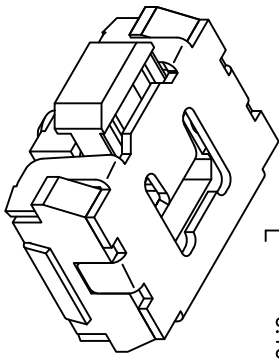
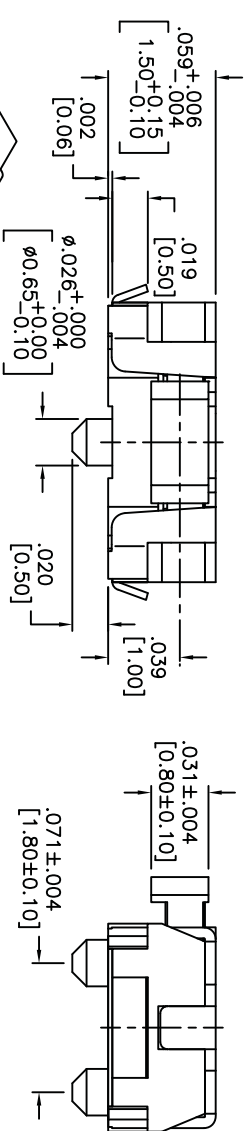
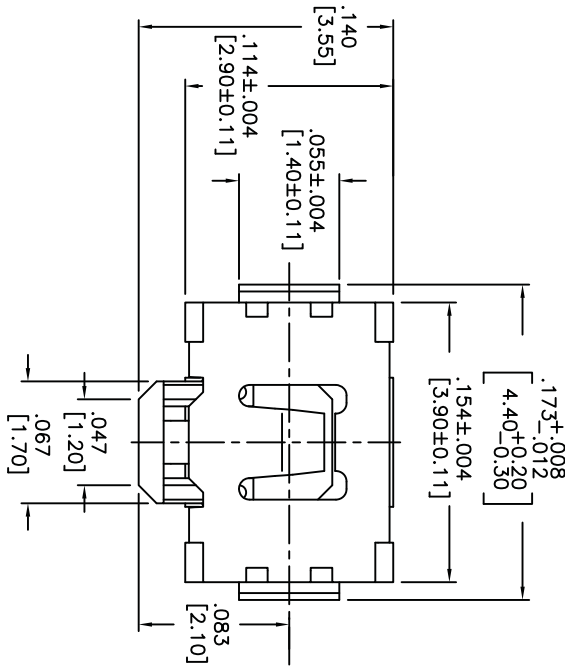
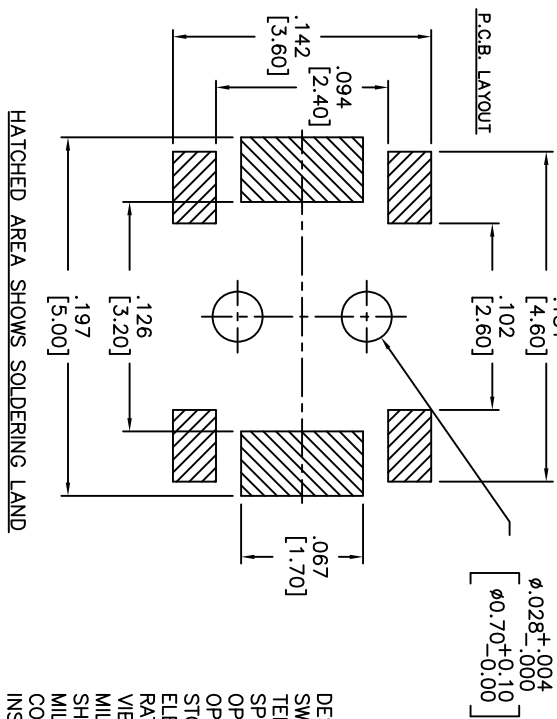


DESCRIPTION: SIDE PUSH MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 220± 65gf
STROKE: 0.2±0.08mm
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 100VDC.
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

Q.A. INSPECT.	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS AS NOTED) XX±.XX[0.5] XXX±.XXX[0.20] XXXX±.XXXX[0.02] ANGLE = 30.5°	INCH SHEET 1 OF 1	SIZE B	SCALE 15:1	THIRD ANGLE PROJECTION	DATE 5/2/06	DRAWING NO. AMPTCFVTR	REV B
APPEM		63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534	P.N. CJD		P.D. PJD				

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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

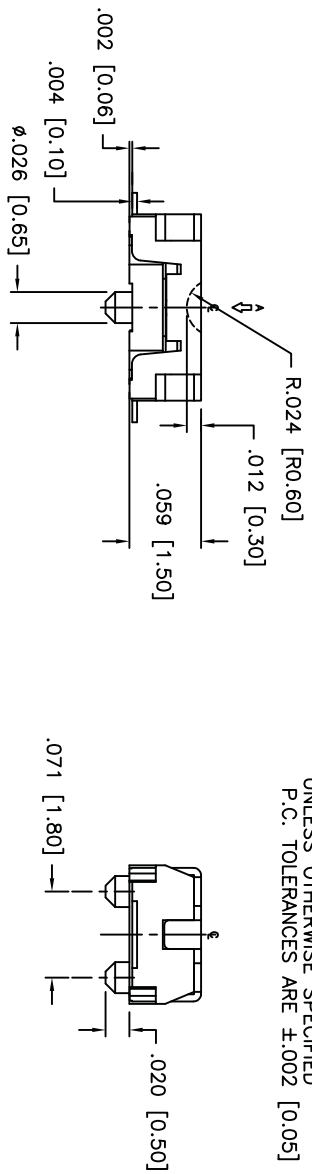
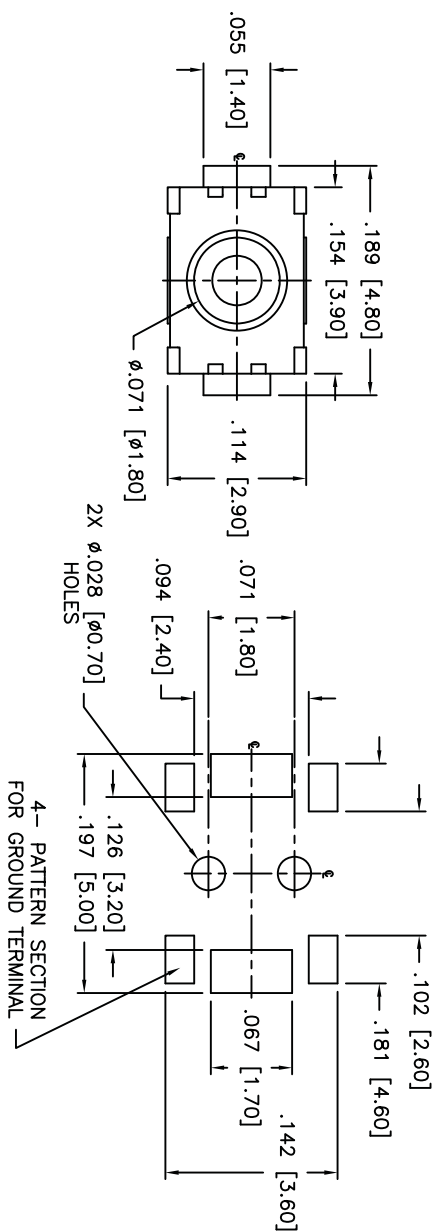
TAPE: TEFLON, 3500 PER REEL
TAPING: REEL PACKAGING, 3500 PER REEL

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 AS NOTED)	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

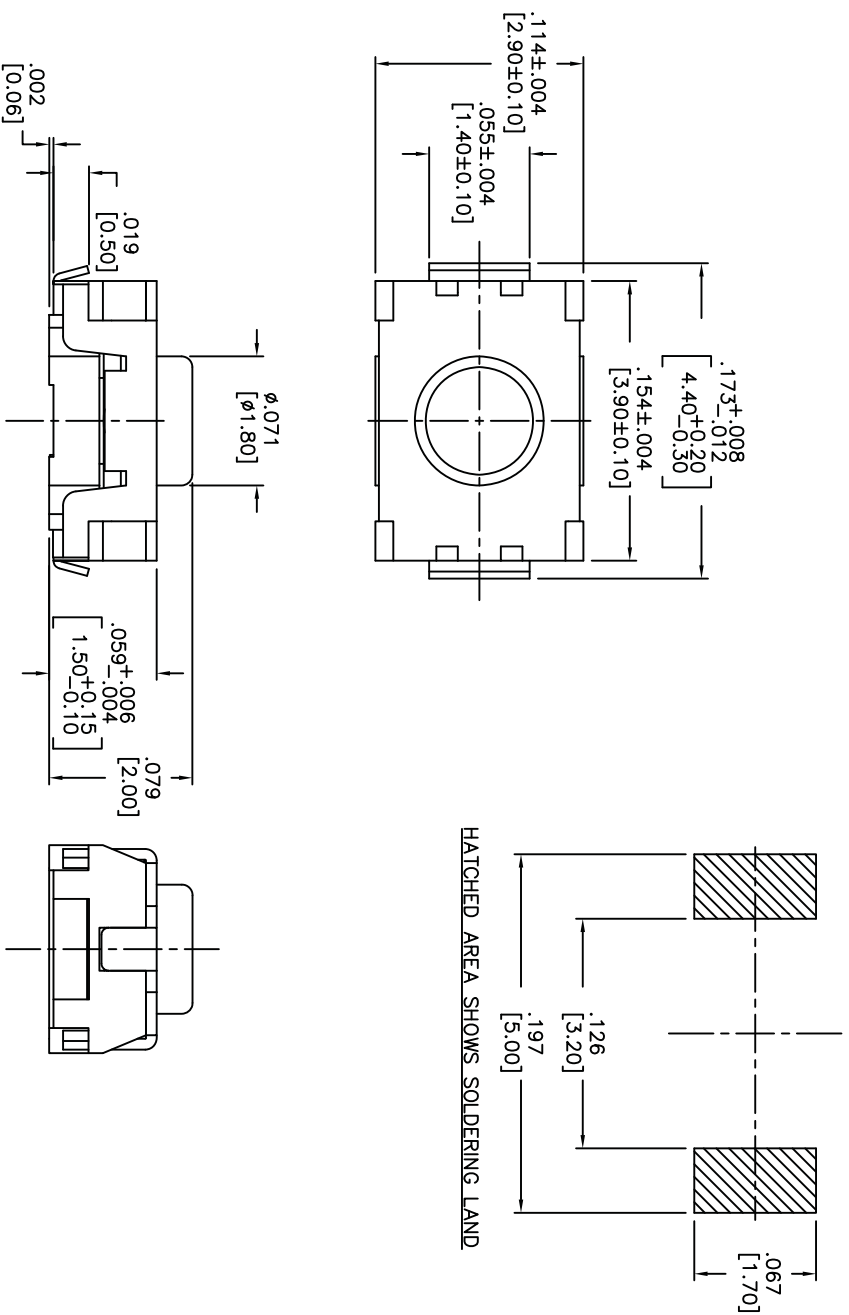
RoHS COMPLIANT

NOTE:

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

Q.A. INSPECT.		DESIGNER'S INITIAL		DATE	
APPEM		63 Neck Rd. 01850		07/20/05	
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		SHEET 1 OF 1		DRAWING NO. AMPTCFG1VTR	
.XX = ±.02 [0.5]		SIZE B		REV B	
.XXX = ±.008 [0.20]		SCALE 10:1			
.XXX = ±.0008 [0.02]		THIRD ANGLE PROJECTION			
ANGLE = 30.5°		TITLE TACT SWITCH WITH LOCATING PINS			

P.C.B. LAYOUT



DATE	SYM	REVISION RECORD	DWN.	CK.
1/06	A	ECO# 526	CD	PD
5/08	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.

RAILING: 50mA, 12VDC.
VIBRATION RESISTANCE: PASSECS METHOD 301AVIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202E

SHOCK RESISTANCE: 50G PER METHOD 213B

STUDY DESIGN: CROSS-SECTIONAL STUDY

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. THERMOPLASTIC

SIEM:LCF HIGH-LEM
COLOR BLACK

CONTACT DISK: STAINLESS STEEL

CONNOY DESIGN: CRYSTALLED CRYSTAL
WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING

TAPE: TEFLON.

TAPE & REEL PACKAGING, 2,000 PER REEL

SOLDERING: _____

HAND SOLDERING: 30 V

2 SECONDS
IP PEEL OW. 340°

IR REFLOW: 240
POHS COMPLIANT

LEAD FREE PROCESS COMPATIBLE

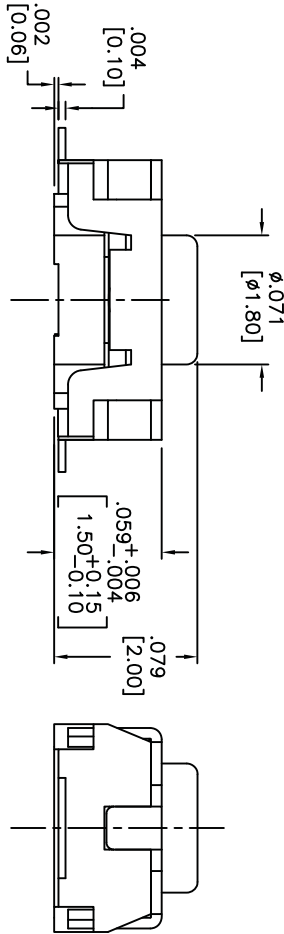
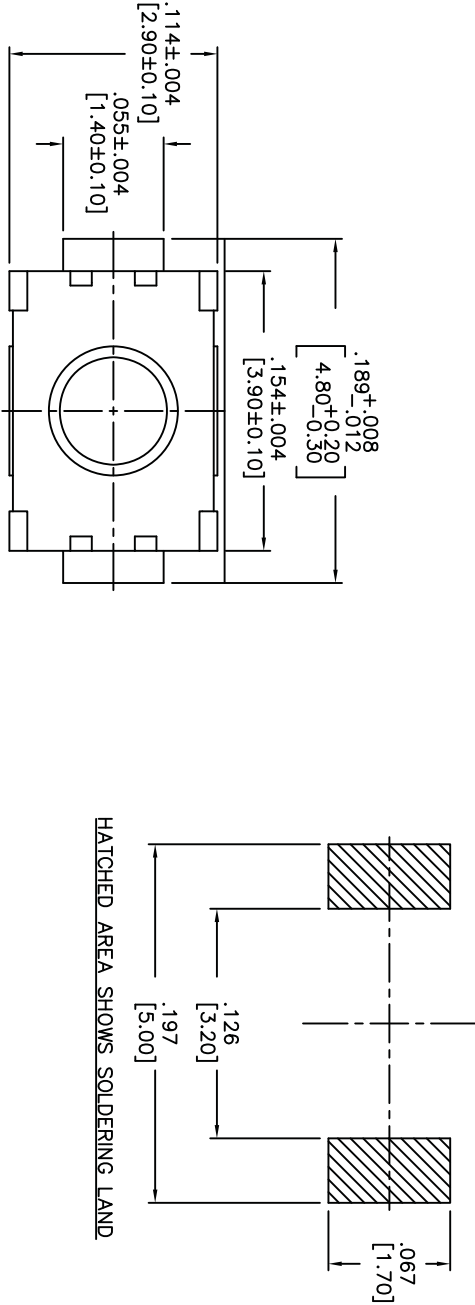


CIRCUIT

0.6. INSECT 		0.3. INCH. RD. 10-1335 10-1378-372-1802 10-1378-372-3534		DRN. BR.	CJD
0.7. DESIGNATES OPTICAL DIMENSION 		 APEM APEM CORPORATION 10-1378-372-1802 10-1378-372-3534		GSK. BR.	PJD
0.8. TO ENDRANCES (EXCEPT AS NOTED) .XX $\pm$ 0.02(0.5) .XX $\pm$ 0.008(0.20) .XXXX $\pm$ 0.0008(0.02) ANGLE = 40.5°		INCH (MM)	SHEET 1 OF 1	SIZE B	SCALE 15:1
TITLE TACT SWITCH		 THIRD ANGLE PROJECTION		REV	
DATE 01/23/06		DRAWING NO. AMPPLP2VTR		REV B	

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P.C.B. LAYOUT



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.

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

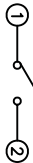
SOLDERING:

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

IR REFLOW: 260°C MAX

RoHS COMPLIANT

LEAD FREE PROCESS COMPATIBLE



CIRCUIT

Q.A. INSPECT:		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DO NOT SCALE DRAWING	
APDM		63 Neck Rd. Hopewell, VA 01853		10X=±0.12[0.5]		TACT SWITCH		DATE	
APDM		FAX: 978-372-3534		30X=±0.008[0.20]		1 OF 1		01/23/06	
APDM		FAX: 978-372-3534		300X=±0.0008[0.02]		B		DRAWING NO.	
APDM		FAX: 978-372-3534		ANGLE = 40.5°		15:1		AMPTFP2VTR	
APDM		FAX: 978-372-3534		THIRD ANGLE PROJECTION		PJD		REV	
APDM		FAX: 978-372-3534		THIRD ANGLE PROJECTION		PJD		B	