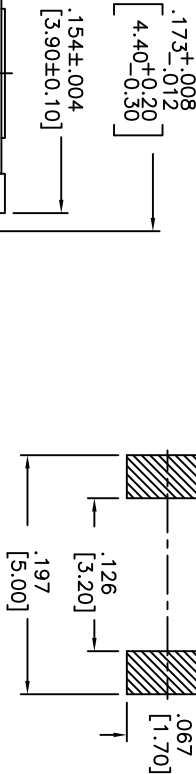
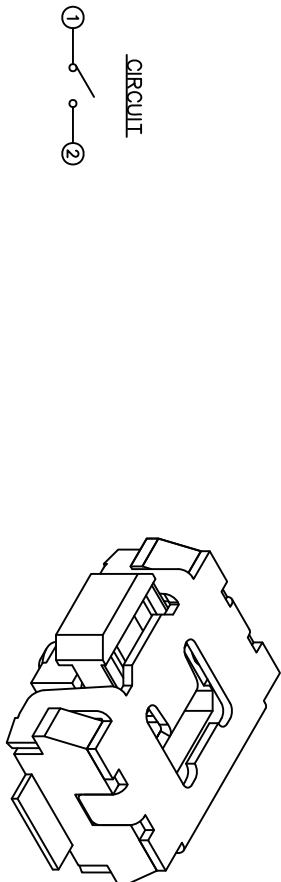
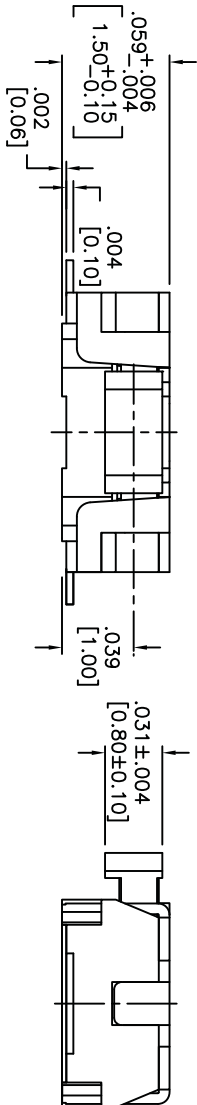
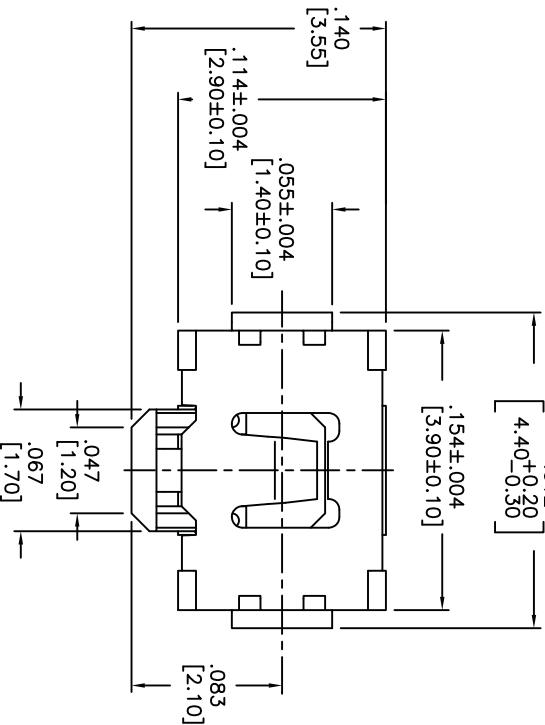


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HATCHED AREA SHOWS SOLDERING LAND.
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]



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

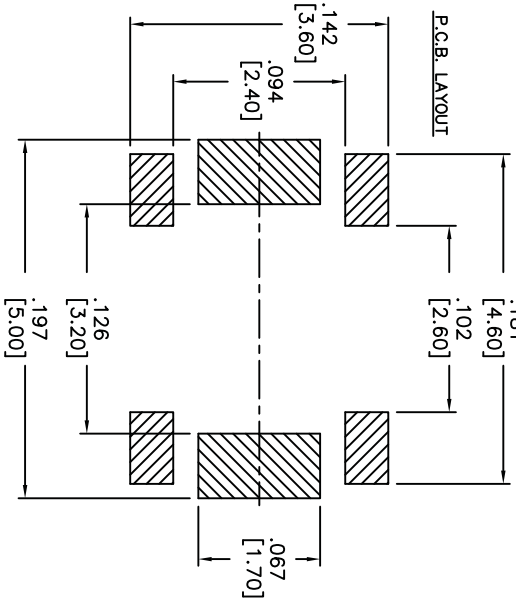
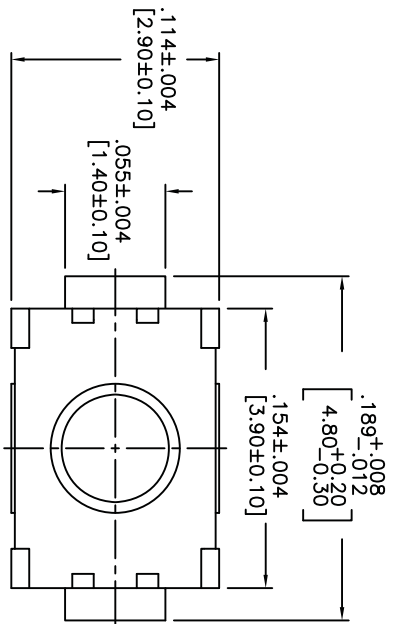
FOR 2 SECONDS

IR REFLOW: 260°C MAX

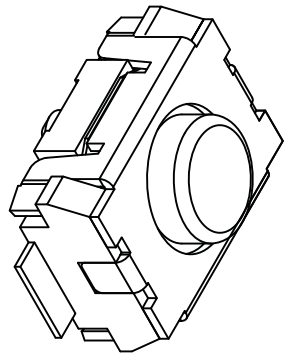
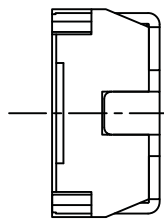
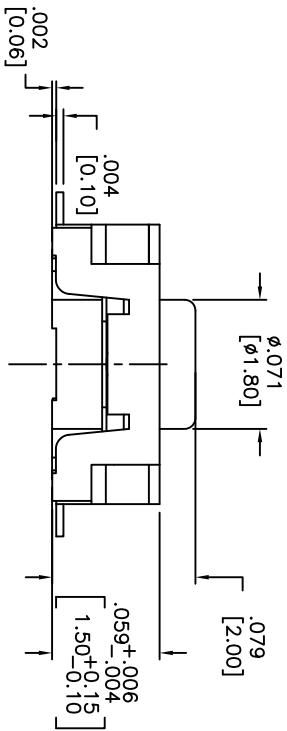
CUSTOMER PART NO.: 263262

Q.A. INSPECT	DESIGNER'S INITIAL	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	INCH (MM)	SHEET 1 OF 1	SIZE B	SCALE 15:1	THIRD ANGLE PROJECTION	PRN. CJD
		.XX±.XX[0.5] .XXX±.XXX[0.20] .XXXX±.XXXX[0.02] ANGLE = 30.5°						
DATE	DRAWING NO.	REV						
7/31/06	AMPTFVTR	A						

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HATCHED AREA SHOWS SOLDERING LAND



CIRCUIT

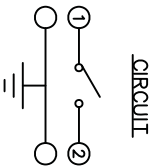
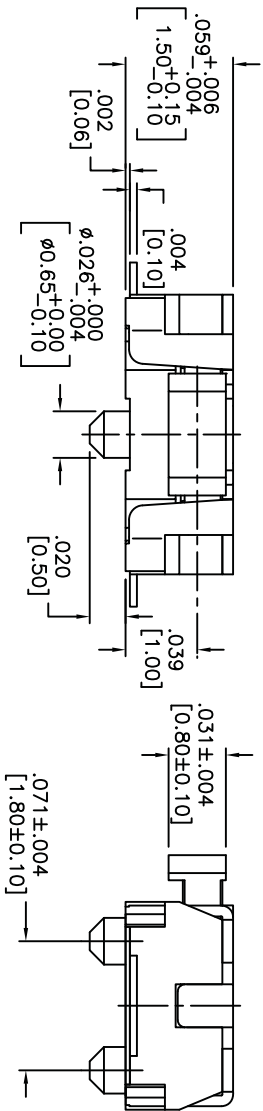
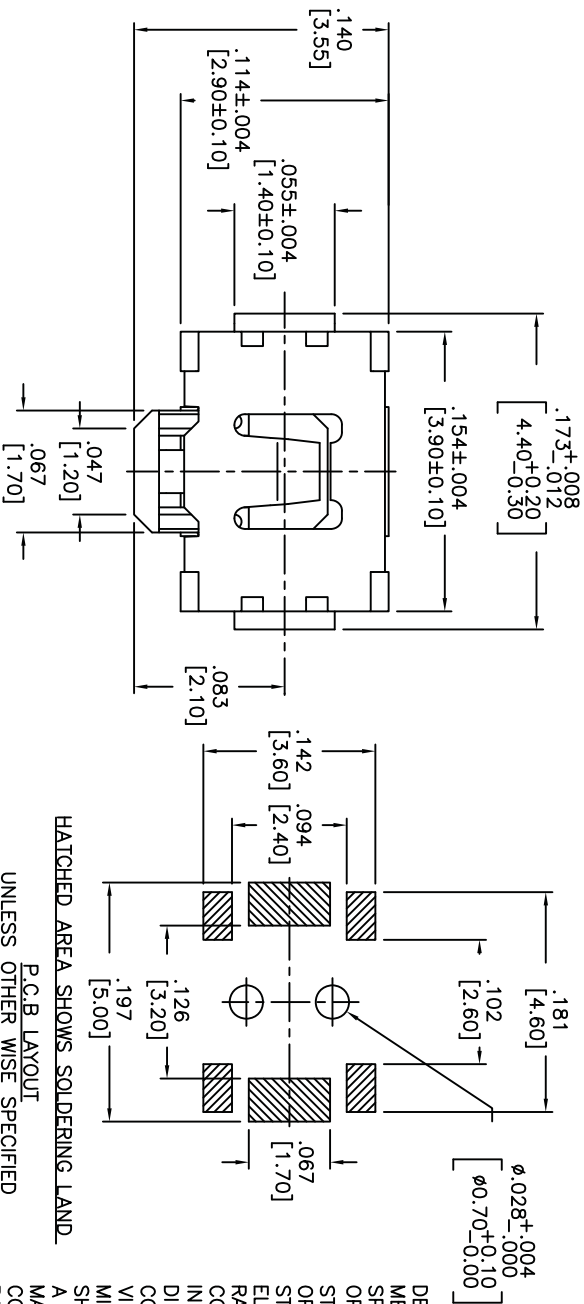
DATE	SYM	REVISION	RECORD	DWN.	CK.
5/08	B	ECO# 778		CD	PD

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 Phone: 978-372-3534 Fax: 978-372-3534		DRN.	CJD
DESIGNATES CRITICAL DIMENSION		APCM		BR:	PJD
TOLERANCES (UNLESS AS NOTED)		INCH		THIRD ANGLE PROJECTION	
.XX±.XX[0.5]		SHEET		1 OF 1	
.XX±.XX[0.20]		SIZE		15:1	
.XXX±.XX[0.02]		SCALE		15:1	
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



DESCRIPTION: SIDE PUSH MECHANICAL CONTACT SWITCH.

SPECIFICATIONS:

OPERATION FORCE: 220 ± 65gf

STROKE: 0.2[±]0.09mm

OPERATION TEMP.: -25°C TO +70°C.

STORAGE TEMP.: -30° TO +80°.

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

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

IR REFLOW: 240°C MAX

Q.A. INSPECT.		DESIGNATES CRITICAL DIMENSION		TOLERANCES (UNLESS AS NOTED)		TITLE		DATE		DRAWING NO.		REV.	
INCH	SHEET	SIZE	SCALE	THIRD ANGLE PROJECTION		1 OF 1	B	15:1		06/30/05	AMPTCFGVTR	B	
TACT SWITCH													
ANGLE = 30.5°													
DO NOT SCALE DRAWING													

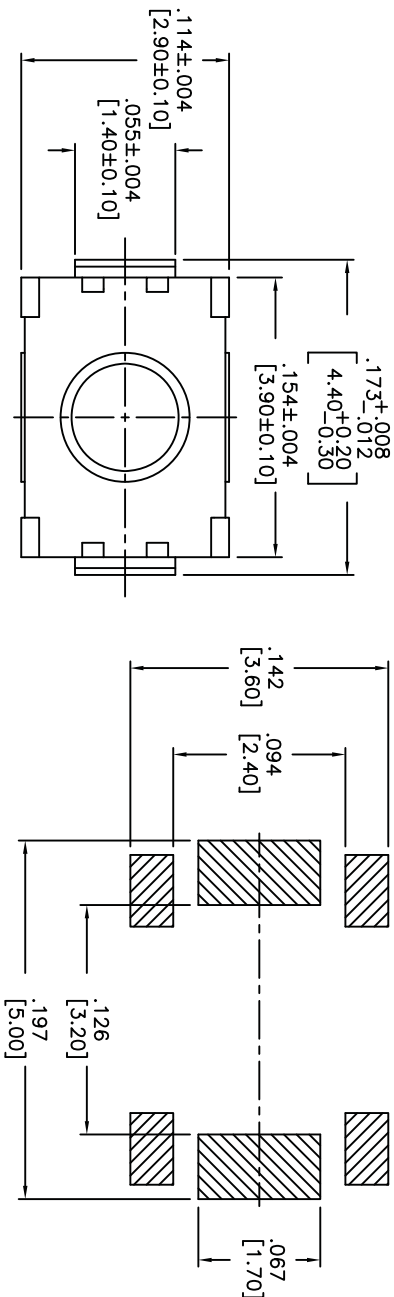


63 Neck Rd.
Haverhill, MA 01830
Tel: 978-372-3534
Fax: 978-372-3534

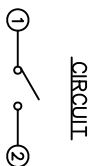
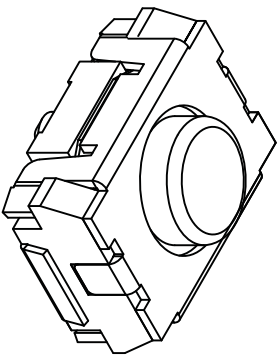
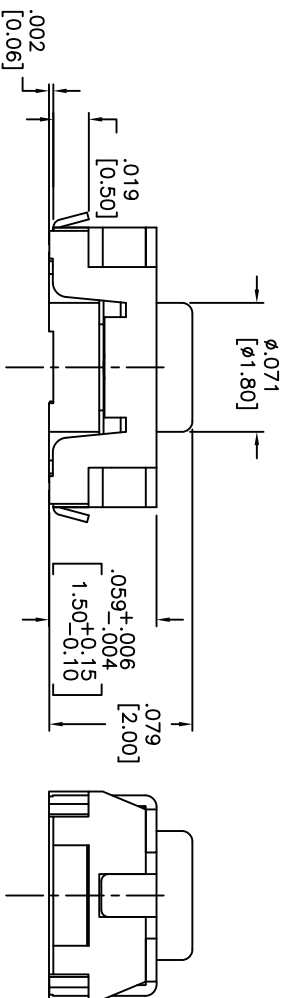
Q.A. INSPECT.

Q.A. INSPECT.

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HATCHED AREA SHOWS SOLDERING LAND

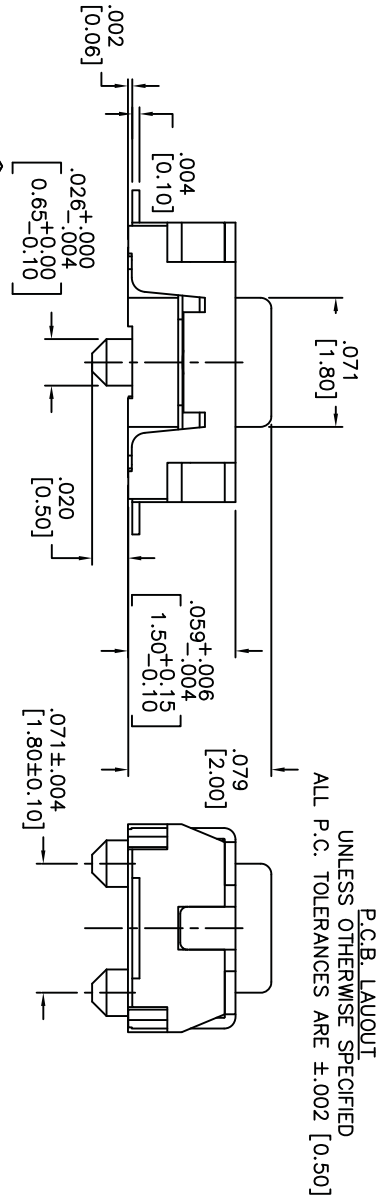
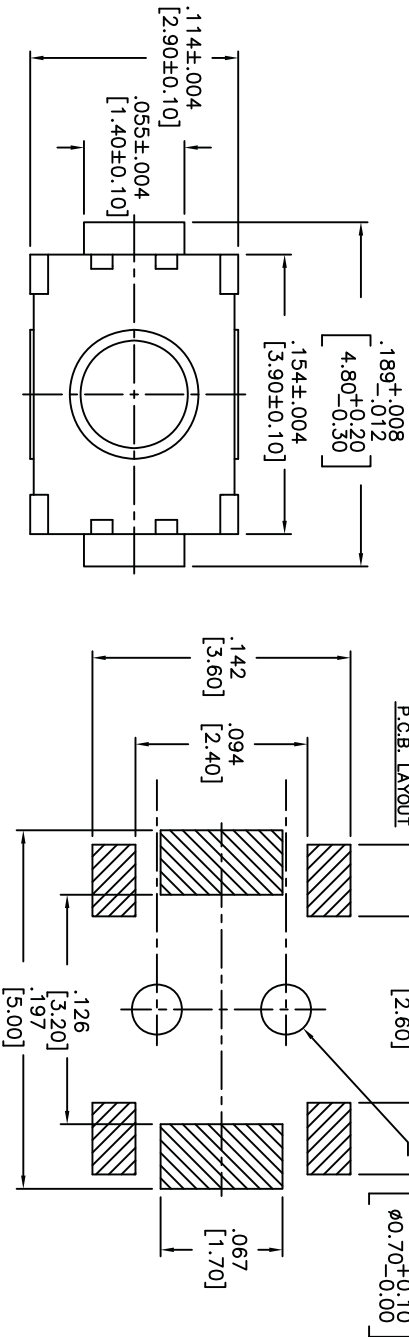


DATE	SYM	REVISION RECORD	DWN.	CK.
5/08	B	ECO# 778	CD	PD

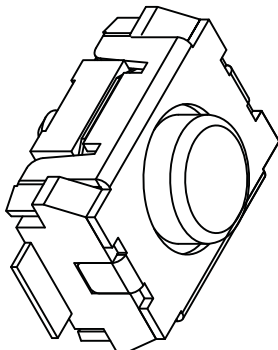
DESCRIPTION: VERTICAL PUSH MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:
OPERATION FORCE: 160± 50gf
OPERATION TEMP.: -25°C TO +70°C.
STORAGE TEMP.: -30°C TO +80°C.
ELECTRICAL LIFE: 100,000 CYCLES.
RATING: 50mA, 12VDC.
VIBRATION RESISTANCE: PASSES METHOD 201A
MIL-STD-202F
SHOCK RESISTANCE: 50G PER METHOD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

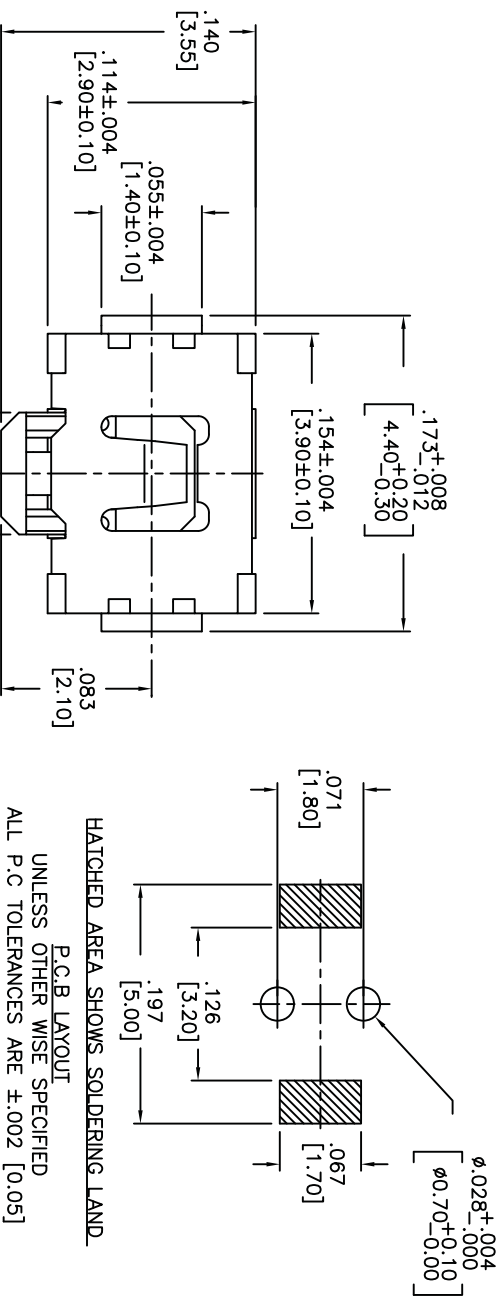
HAND SOLDERING: 30 WATT IRON AT 320°C FOR 2 SECONDS

IR REFLOW: 240°C MAX

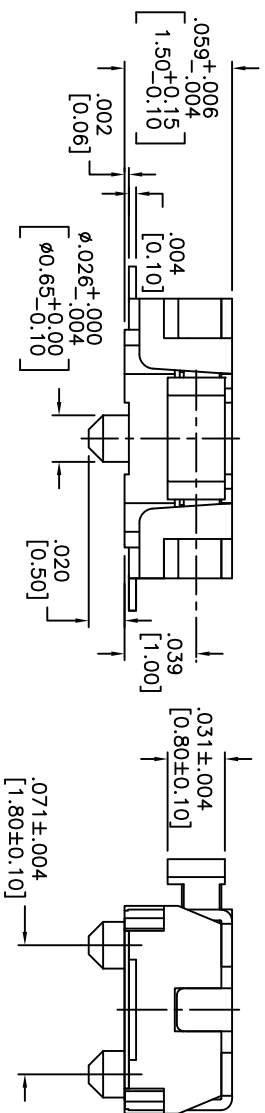
RoHS COMPLIANT

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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HATCHED AREA SHOWS SOLDERING LAND
P.C.B LAYOUT
UNLESS OTHER WISE SPECIFIED
ALL P.C TOLERANCES ARE ± 0.02 [0.05]

CIRCUIT

7		8	
DATE	SYM	REVISION RECORD	
5/08	B	ECO # 778	

DESCRIPTION: SIDE PUSH
MECHANICAL CONTACT SWITCH.
SPECIFICATIONS:

SPECIFICATIONS:

OPERATION FORCE: 220± 65g_f

STROKE: $0.2^{+0.10}_{-0.05}$ mm

STORAGE TEMP.: -30°C TO +80°C

ELECTRICAL LIFE: 100,000 CYCLES.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 50VAC
DIELECTRIC STRENGTH: 100VAC/1 MIN/1ITEM

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-202E

A OF MIL-31D-2021 MATERIALS:

COVER: STAINLESS STEEL

BASE: LCP HIGH-TEMP. THERMOPLASTIC.

STEM: 1CB HIGH-TEMP THERMOPLASTIC
COLOR, WHITE.

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

CONTACT DISK: STAINLESS STEEL

WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING
PACKAGING: TAPE AND BEEL

PACKAGING: 1AFL AND 1KEL
(3,500 PICES PER REEL)

ROHS COMPLIANT

LEAD FREE SOLDERING COMPATIBLE

HAND SOLDERING: 320°C MAX WITH 30 WATT IRON
FOR 3 SECONDS

FOR 2 SECONDS
IR FLOW: 260°C MAX

Q.A. INSPECT,



DRN. BY:	CJD
CHK. BY:	PJD

**PREVIOUSLY CRITICAL
DIMENSION**

TOLERANCES (EXCEPT AS NOTED)	INCH	MILL	SIZE	SCALE	THIRD ANGLE PROJECTION
	$\frac{1}{16}$ OF 1	1	B	15:1	
	(MM)				

(EXCEPT AS NOTED)
XX=±0.2[0.5]

XXXX=±.0008[0.02]

ANGLE = $\pm 0.5^\circ$	SWITCH
DATE	

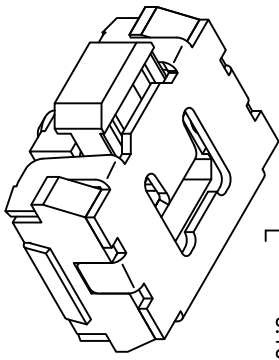
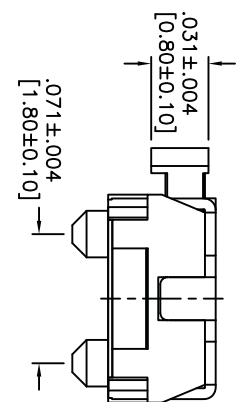
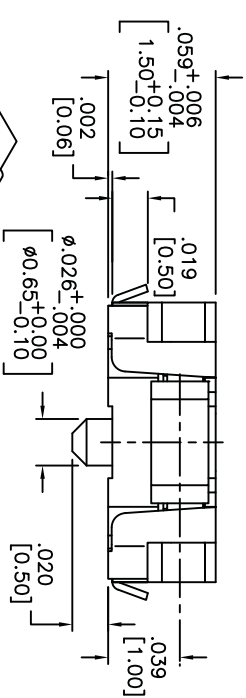
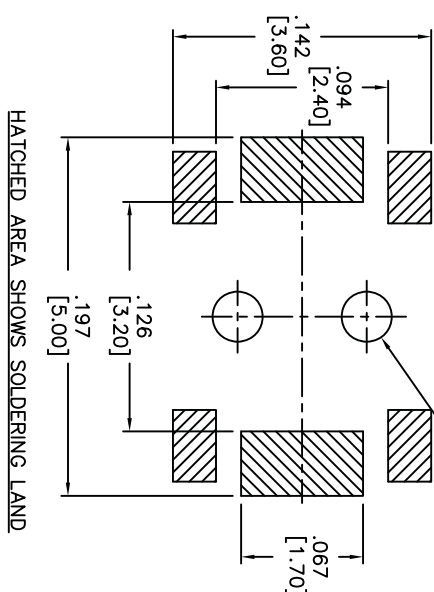
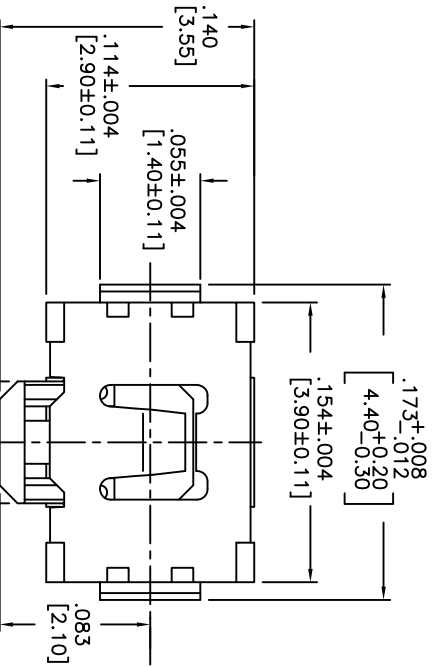
**DO NOT SCALE
DRAWING**

DATE	5/2/06
DRAWING NO.	AMPTCFVTR

REV B

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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

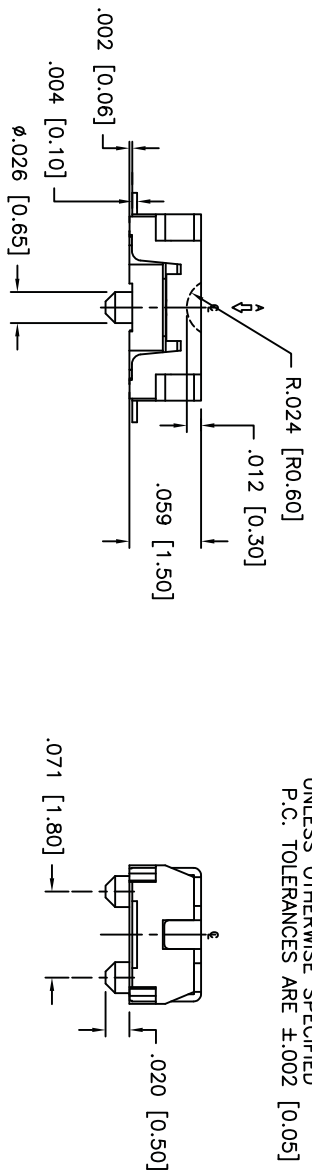
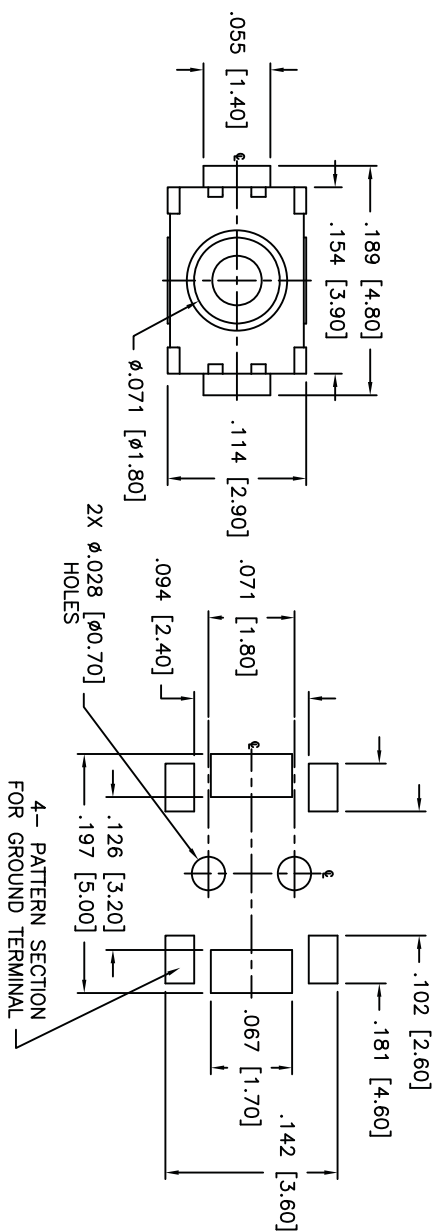
TAPE: TEFLON, BRASS WITH SILVER PLATING
TAPE & REEL PACKAGING, 3500 PER REEL

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

RoHS COMPLIANT

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

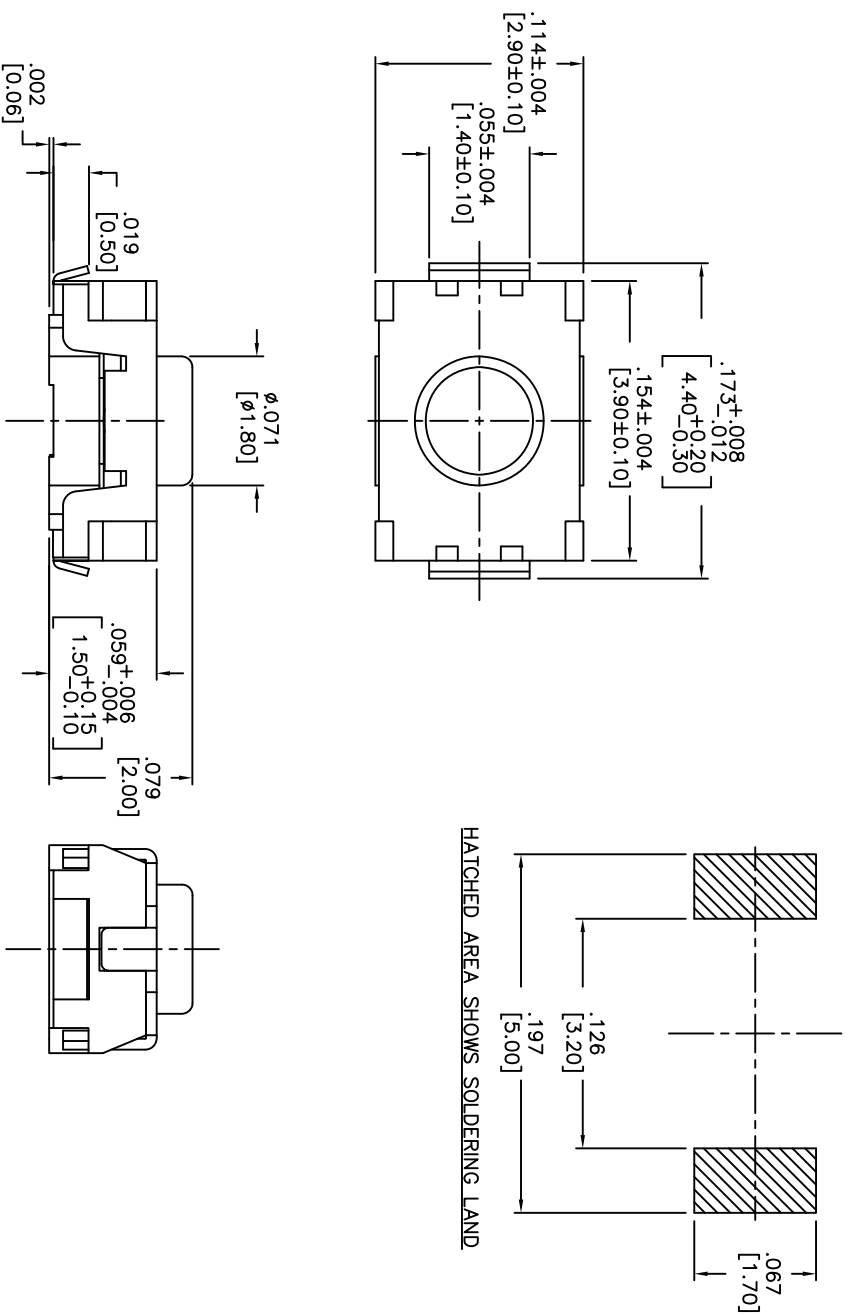
RoHS COMPLIANT

NOTE:

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

Q.A. INSPECT.	DESIGNER'S INITIAL	DATE	DRAWING NO.	REV.
APPEM	63 Neck Rd. 01835 Haverhill, MA 01835 Tel: 978-372-3534 Fax: 978-372-3534	07/20/05	AMPTCFGP1VTR	B
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	SHEET 1 OF 1	SIZE B	SCALE 10:1	THIRD ANGLE PROJECTION
.XX±.XX(.XX)				
.XXX±.XX(.XX)				
.XXXX±.XX(.XX)				
ANGLE = 30.5°				
TITLE				
TACT SWITCH WITH LOCATING PINS				

P.C.B. LAYOUT



DATE		SYM	REVISION RECORD	DMN.	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± 65qf

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: 1 GP HIGH-TEMP THERMOPLASTIC

BASE: EOL 11011E
COLOR WHITE

STEM-1 CB HIGH-TEMP THERMOPLASTIC

VIEW: 11/01/11 15:11
COLOR: BLACK

CONTACT DISK: STAINLESS STEEL

CONTACT DISK. SIGNALLED
WITH SILVER CLADDING

TERMINAL: BRASS WITH SILVER PLATING

LEMINAL. DIVI
TAPPE. TEEI ON

DATE: 11/1/01
TAP & REEL PACKAGING 2000 DEP REEL

IAFL & IFL
COLLEBING.

HAND SOLDERING. 70 WATT IRON AT 330°C FOR

HAND SOLDERING: 30 V
3 SECONDS

2 SECONDS
ID. BELOW. 340°

IR REFLOW: 240

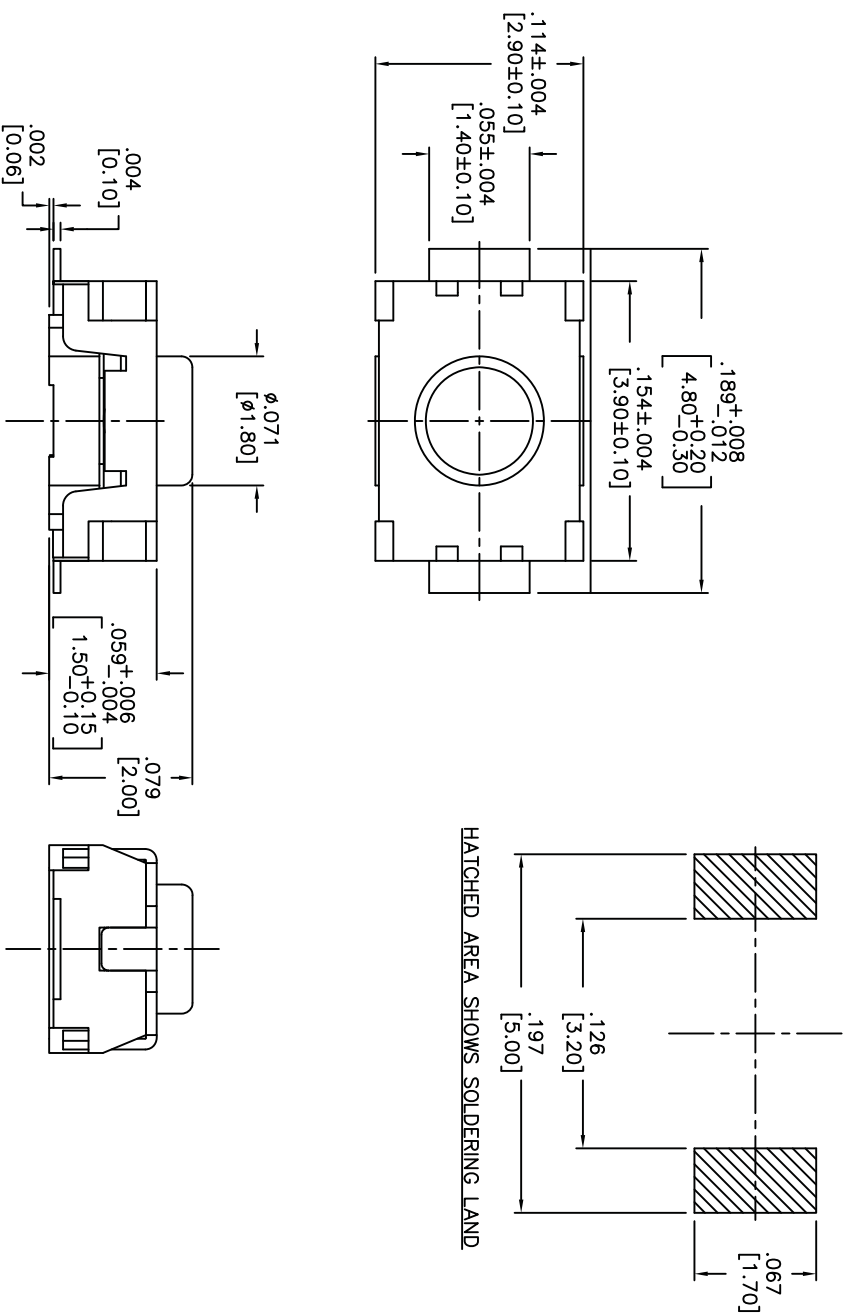
ROHS COMPLIANT



CIRCUIT

5.4. INSECT 		5.5. DIMENSIONS 		5.6. TOLERANCES (except as noted) .XXX" = ±.002 (0.5) .XXX" = ±.008 (0.20) .XXX" = ±.0008 (0.02) ANGLE = ±0.5°	
5.7. DESIGNS, CRITICAL TOLERANCES		5.8. TITLES TACT SWITCH		5.9. DO NOT SCALE DRAWING	
5.10. DATE 01/23/06		5.11. DRAWING NO. AMP/PLP2VTR		5.12. 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

31EM:ECF HIGH-1EMF: 1HERMOL-ELASIC:
COLOR BLACK

CONTACT DISK: STAINLESS STEEL

CONVINO DINO: CHAMPAGNE CELL
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. 260°C MAX

IR REFLOW: 260
POHS COMPLIANT

LEAD FREE PROCESS COMPATIBLE



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

2A. INSPECT: ∇ DIMENSION		2B. BY: CJD 2C. CHK: PJD 2D. DATE:	
2E. DIMENSION: 1 OF 1 2F. SCALE: 15:1 2G. THIRD ANGLE PROJECTION: 		2H. PROJECT: 	
2I. TITLES: TACT SWITCH 2J. DATE: 01/23/06 2K. DRAWING NO.: AMPDFP2VTR 2L. REV: B		2M. PROJECT: 	