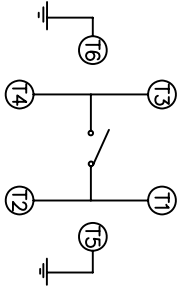
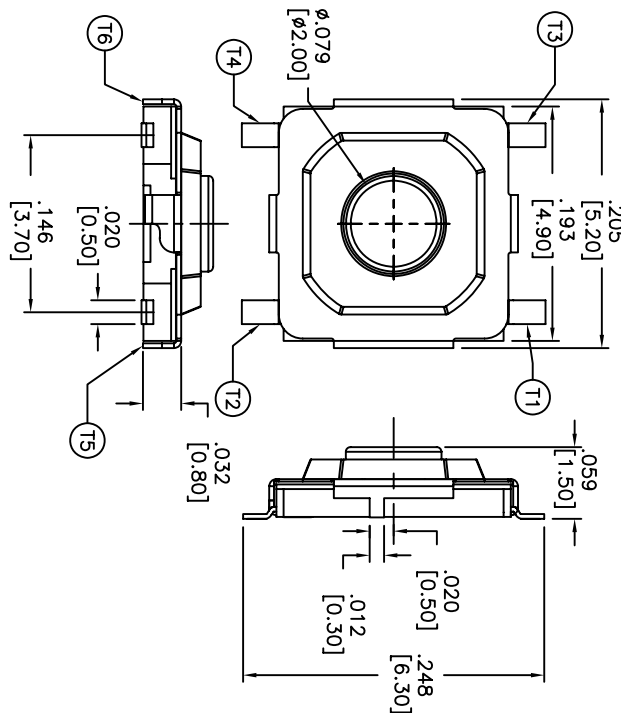
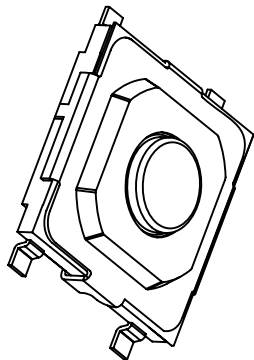
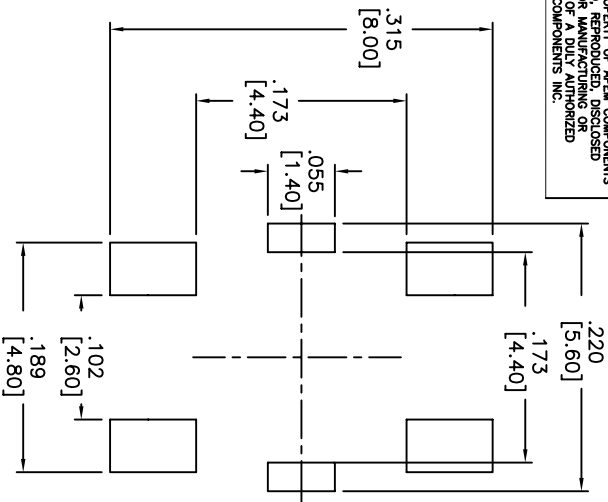


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ATMG53*/V*
OPERATION FORCE: _____
3=160gf
4=260gf
PACKAGE STYLE:
T/R=TAPE AND REEL
LEAD FREE



CIRCUIT DIAGRAM

DATE	SYM	REVISION RECORD	DWN.	CK.
11/05	B	ECO# 495		CD

DESCRIPTION: MINIATURE MACHANICAL CONTACT SWITCH WITH SURFACE MOUNT TERMINALS AND GROUNDING TERMINALS.

SPECIFICATIONS:

STROKE: .010 $\pm .004$ [0.25 $\pm .010$]

OPERATION TEMPERATURE RANGE: -25°C TO +70°C

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

VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.

SHOCK TEST: 50G PER METHOD 213B MIL-STD202F.

ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 160gf. 200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 500VDC.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

COVER: NICKEL SILVER.

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR: BLACK.

STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL.

TERMINAL: BRASS WITH SILVER CLADDING.

TAPE: TEFLON

SOLDERING:

HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.

VAPOR & REFLOW: 255°C FOR 5 SEC. MAX.

NON-WASHABLE

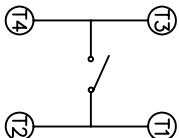
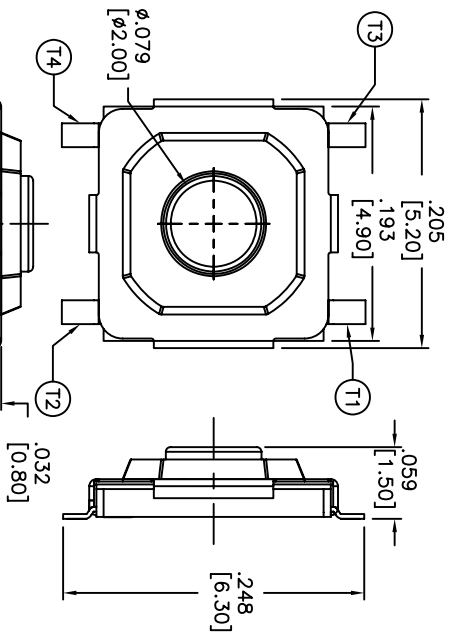
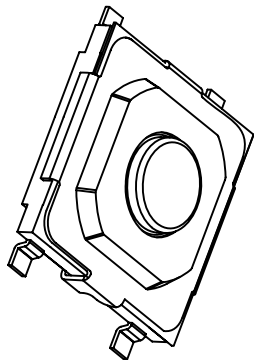
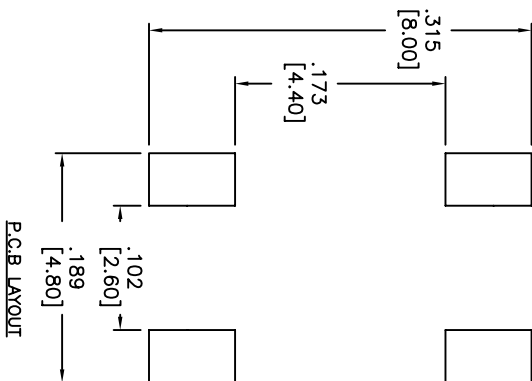
LEAD FREE PROCESS COMPATIBLE

ROHS COMPLANT

9A. INSECT.		63 NICK RD.		DRN.	CJD
DESIGNATES CRITICAL DIMENSION		APERM		BR.	PJD
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		1 OF 1		THIRD ANGLE PROJECTION	
.X0 = ±.02 [0.05]		SIZE		SCALE	
.X00 = ±.004 [0.20]		B		10:1	
.X000 = ±.0008 [0.02]		10:1		THIRD ANGLE PROJECTION	
ANGLE = 10.5°		DATE		DRAWING NO.	
DO NOT SCALE DRAWING		08/15/05		ATMG53*V*	
				REV	
				B	

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ATM53*V/*
PACKAGE STYLE:
2=100gf
3=160gf
4=260gf
T/R=TAPE AND REEL
LEAD FREE



CIRCUIT DIAGRAM

DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH
SURFACE MOUNT TERMINALS.

SPECIFICATIONS:

STROKE: .010 $\pm .004$ [0.25 $\pm .01$]
OPERATION TEMPERATURE RANGE: -25°C TO +70°C
STORAGE TEMPERATURE RANGE: -30°C TO +80°C
VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.
SHOCK TEST: 50G PER METHOD 213B MIL-STD202F.
ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100gf, 16
200,000 CYCLES MIN FOR 260gf.
RATING: 50mA, 12VDC.
CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 500VDC.
DIELECTRIC STRENGTH: 250VAC/1 MINUTE.
CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

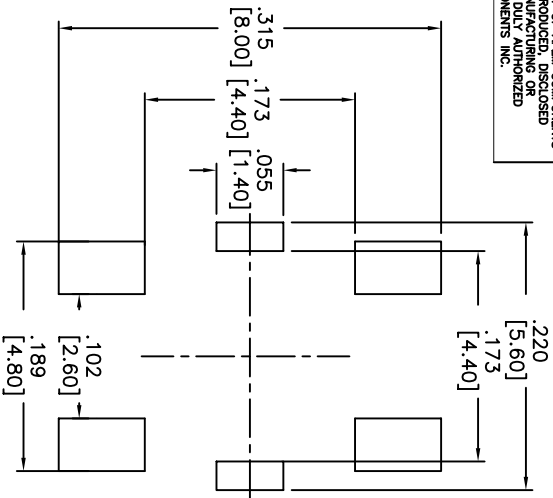
COVER: NICKEL SILVER.
BASE: HIGH-TEMP. THERMOPLASTIC.
COLOR, BLACK.
STEM: BRASS WITH NICKEL PLATING
CONTACT DISC: STAINLESS STEEL WITH SILVER PLATING.
TERMINAL: BRASS WITH SILVER CLADDING.
TAPE: TEFLON

SOLDERING:
HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.
VAPOR & REFLOW: 255°C FOR 5 SEC. MAX.
NON-WASHABLE
LEAD FREE PROCESS COMPATIBLE
ROHS COMPLIANT

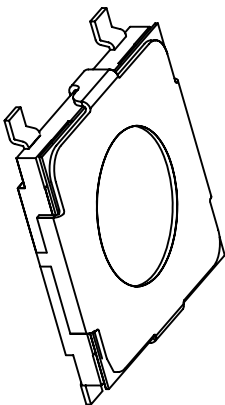
DATE	SYM	REVISION RECORD	DWN.	CK.

9A. INSECT.		63 Neck Rd.		DIN. CJD	
DESIGNATES CRITICAL DIMENSION		Haverhill, MA 01830		BR.	
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		FORM 372-5554		PJD	
.XX = ±.02 [0.05]		1 OF 1		THIRD ANGLE PROJECTION	
.XXX = ±.004 [0.20]		SIZE		SCALE	
.XXXX = ±.0008 [0.02]		B		10:1	
ANGLE = 10.5°		TITLE		MECHANICAL CONTACT SWITCH	
DO NOT SCALE DRAWING		DATE		DRAWING NO.	
		4/26/06		ATM53*V*	
				REV	
				A	

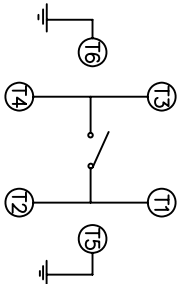
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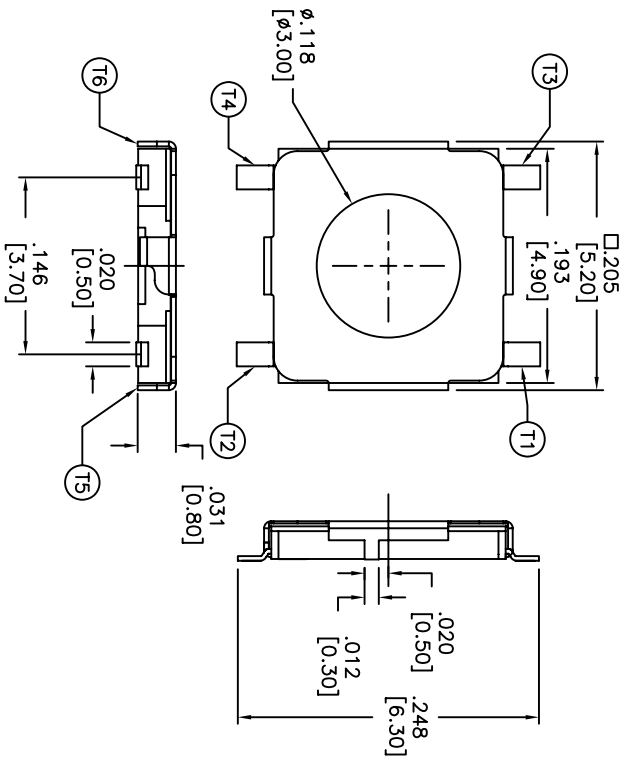
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE $\pm .002$ [0.05]



OPERATION FORCE: ATMG52*V*
2=100gf
3=160gf
4=260gf
PACKAGE STYLE:
T/R=TAPE AND REEL
LEAD FREE



CIRCUIT DIAGRAM



DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH WITH SMT, AND GROUNDING TERMINALS.

SPECIFICATIONS:

OPERATION TEMPERATURE RANGE: -25°C TO +70°C

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

VIBRATION TEST: PASSES METHOD 2014 MIL-STD-202F.

STROKE: .010 $\pm .005$ [0.25 $\pm .013$]

SHOCK TEST: 50G PER METHOD 213B MIL-STD-202F.

ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100gf AND 160gf.

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 500VDC.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

COVER: NICKEL SILVER.

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL WITH SILVER CLADDING.

TERMINAL: BRASS WITH SILVER PLATING.

TAPE: TEFLON

SOLDERING:

HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5

SEC.

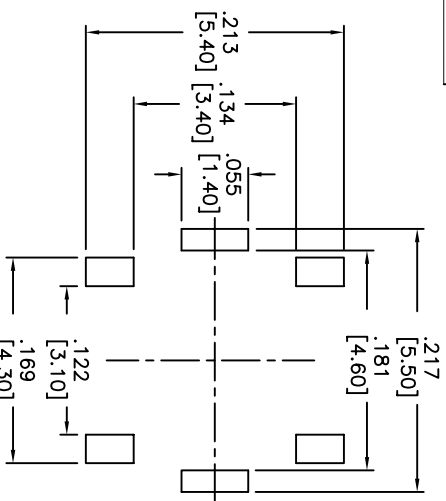
IR REFLOW: 260°C MAX

LEAD FREE PROCESS COMPATIBLE

ROHS COMPLIANT

Q.A. INSPECT		DATE		DRAWING NO.		REV	
DESIGNATES CRITICAL	APEM	63 Neck Rd.	01835	BR	CJD		
DIMENSION		1000-172-3534		BR	PJD		
TOLERANCES (UNLESS OTHERWISE SPECIFIED)							
.XX±.XX(0.05)							
.XXX±.XXX(0.20)							
.XXXX±.XXXX(0.02)							
ANGLE = 40.5°							
DO NOT SCALE							
DRAWING							

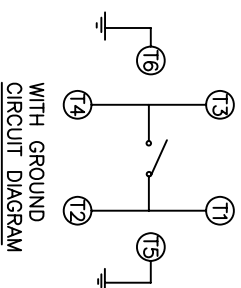
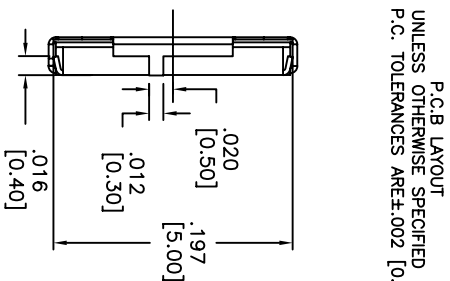
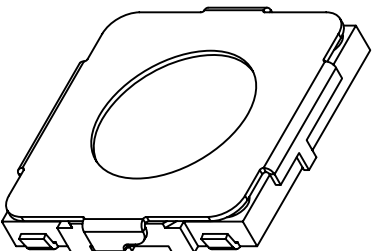
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ATUG52*V*

OPERATION FORCE: 2=100gf
3=160gf
4=260gf

PACKAGE STYLE: T/R=TAPE AND REEL
LEAD FREE



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

DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH WITH J TYPE SMT AND GROUNDING TERMINALS.

SPECIFICATIONS:

OPERATION TEMPERATURE RANGE: -25°C TO $+70^{\circ}\text{C}$

STORAGE TEMPERATURE RANGE: -30°C TO +80°C
VIBRATION TEST: RASCALS METHOD 201A WITH STD 2002F

VIBRATION TEST: 50G PER METHOD 213B MIL-STD202F
SHOCK TEST: 50G PER METHOD 213B MIL-STD202F

ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100qf 160qf.

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN. AT 50VDC

INSULATION RESISTANCE: 100M Ω MIN. AT
DIELECTRIC STRENGTH: 250VAC/1 MINUTE

DIELECTRIC STRENGTH: 230VAC / 1 MINUTE.
STROKE: 0.25 +0.10mm

STROKE: 0.25 -0.20mm
CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

COVER: NICKEL SILVER

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

SIEM: BRASS WITH NICKEL PLATING
CONTACT DISC: STAINLESS STEEL

CONNECTION DISC. STAINLESS STEEL WITH SILVER CADDING.
TERMINAL: BRASS WITH SILVER PLATING.

TAPE: TEFLON

SOLDERING:

HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.

IR REFLOW: 260°C MAX.
LEAD FREE PROCESS COMPATIBLE

LEAD FREE PRO
ROHS COMPLIANT

REVISION RECORD				
DATE	SYM		DWN.	CK.

Q.A. INSECT △				03 INCH NO. 01835 1x4-7/8-312-1602 7x4-7/8-312-8534		BRN. CUD
DESIGNS: CRITICAL DIMENSION		SHEET 1 OF 1		SIZE B	SCALE 10:1	BR. PUD
TOLERANCES (except as noted) .XXX = (2.0/10.0) .XXX = (.008/0.20) .XXXX = (.0008/0.02) ANGLE = 40.5°		MECHANICAL DRAWING CONTRACT SWITCH				
DO NOT SCALE DRAWING	DATE 8/11/06	DRAWING NO. A1JG52*V*	REV A			