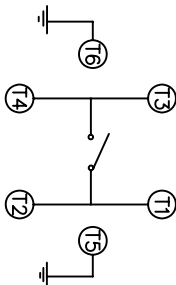
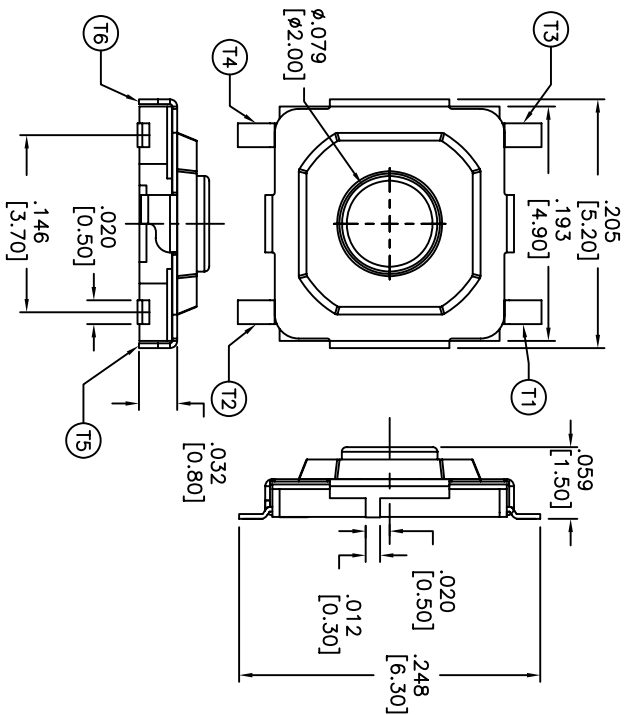
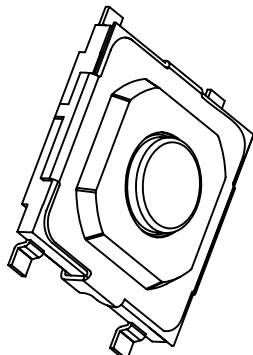
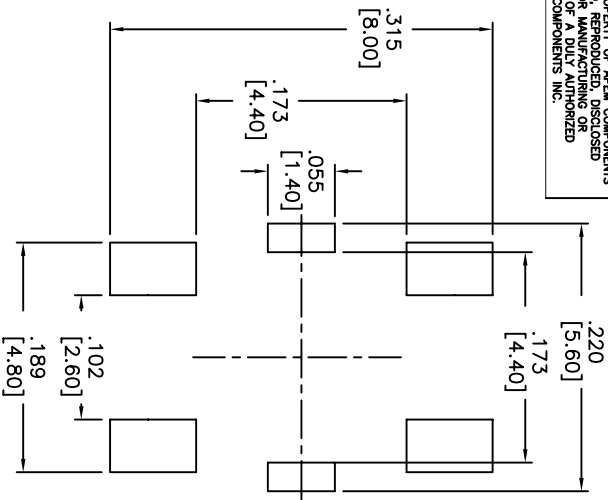


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ATMG53*/V*
OPERATION FORCE: _____
3=160gf
4=260gf
PACKAGE STYLE:
T/R=TAPE AND REEL
LEAD FREE



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 $\pm$.008 $\pm$.018

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

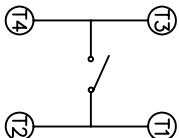
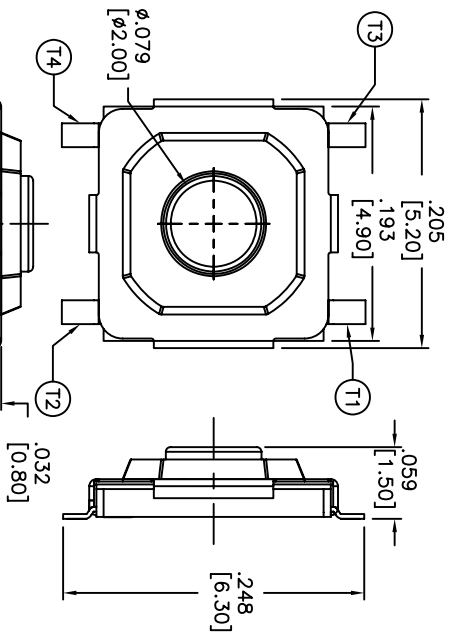
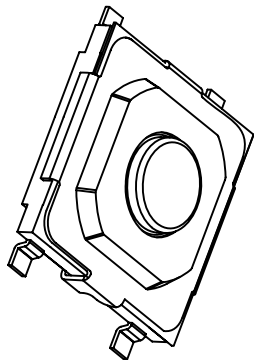
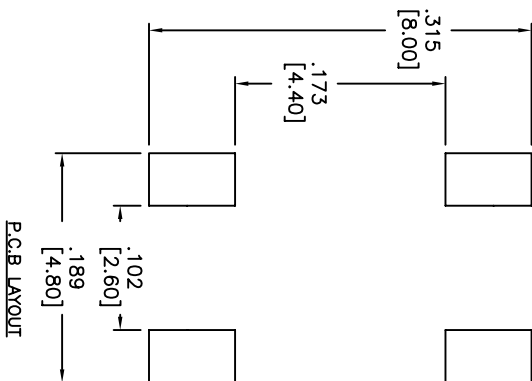
LEAD FREE PROCESS COMPATIBLE

ROHS COMPLANT

9A. INSECT.				63 NICK RD.		DRN.	CJD
DESIGNATES CRITICAL DIMENSION				10A 01855		BR.	PJD
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		.005 $\pm$.002		.005 $\pm$.004		THIRD ANGLE PROJECTION	
.005 $\pm$.008		.005 $\pm$.010		.005 $\pm$.012		.005 $\pm$.015	
.005 $\pm$.020		.005 $\pm$.025		.005 $\pm$.030		.005 $\pm$.035	
.005 $\pm$.040		.005 $\pm$.045		.005 $\pm$.050		.005 $\pm$.055	
.005 $\pm$.060		.005 $\pm$.065		.005 $\pm$.070		.005 $\pm$.075	
.005 $\pm$.080		.005 $\pm$.085		.005 $\pm$.090		.005 $\pm$.095	
.005 $\pm$.100		.005 $\pm$.105		.005 $\pm$.110		.005 $\pm$.115	
.005 $\pm$.120		.005 $\pm$.125		.005 $\pm$.130		.005 $\pm$.135	
.005 $\pm$.140		.005 $\pm$.145		.005 $\pm$.150		.005 $\pm$.155	
.005 $\pm$.160		.005 $\pm$.165		.005 $\pm$.170		.005 $\pm$.175	
.005 $\pm$.180		.005 $\pm$.185		.005 $\pm$.190		.005 $\pm$.195	
.005 $\pm$.200		.005 $\pm$.205		.005 $\pm$.210		.005 $\pm$.215	
.005 $\pm$.220		.005 $\pm$.225		.005 $\pm$.230		.005 $\pm$.235	
.005 $\pm$.240		.005 $\pm$.245		.005 $\pm$.250		.005 $\pm$.255	
.005 $\pm$.260		.005 $\pm$.265		.005 $\pm$.270		.005 $\pm$.275	
.005 $\pm$.280		.005 $\pm$.285		.005 $\pm$.290		.005 $\pm$.295	
.005 $\pm$.300		.005 $\pm$.305		.005 $\pm$.310		.005 $\pm$.315	
.005 $\pm$.320		.005 $\pm$.325		.005 $\pm$.330		.005 $\pm$.335	
.005 $\pm$.340		.005 $\pm$.345		.005 $\pm$.350		.005 $\pm$.355	
.005 $\pm$.360		.005 $\pm$.365		.005 $\pm$.370		.005 $\pm$.375	
.005 $\pm$.380		.005 $\pm$.385		.005 $\pm$.390		.005 $\pm$.395	
.005 $\pm$.400		.005 $\pm$.405		.005 $\pm$.410		.005 $\pm$.415	
.005 $\pm$.420		.005 $\pm$.425		.005 $\pm$.430		.005 $\pm$.435	
.005 $\pm$.440		.005 $\pm$.445		.005 $\pm$.450		.005 $\pm$.455	
.005 $\pm$.460		.005 $\pm$.465		.005 $\pm$.470		.005 $\pm$.475	
.005 $\pm$.480		.005 $\pm$.485		.005 $\pm$.490		.005 $\pm$.495	
.005 $\pm$.500		.005 $\pm$.505		.005 $\pm$.510		.005 $\pm$.515	
.005 $\pm$.520		.005 $\pm$.525		.005 $\pm$.530		.005 $\pm$.535	
.005 $\pm$.540		.005 $\pm$.545		.005 $\pm$.550		.005 $\pm$.555	
.005 $\pm$.560		.005 $\pm$.565		.005 $\pm$.570		.005 $\pm$.575	
.005 $\pm$.580		.005 $\pm$.585		.005 $\pm$.590		.005 $\pm$.595	
.005 $\pm$.600		.005 $\pm$.605		.005 $\pm$.610		.005 $\pm$.615	
.005 $\pm$.620		.005 $\pm$.625		.005 $\pm$.630		.005 $\pm$.635	
.005 $\pm$.640		.005 $\pm$.645		.005 $\pm$.650		.005 $\pm$.655	
.005 $\pm$.660		.005 $\pm$.665		.005 $\pm$.670		.005 $\pm$.675	
.005 $\pm$.680		.005 $\pm$.685		.005 $\pm$.690		.005 $\pm$.695	
.005 $\pm$.700		.005 $\pm$.705		.005 $\pm$.710		.005 $\pm$.715	
.005 $\pm$.720		.005 $\pm$.725		.005 $\pm$.730		.005 $\pm$.735	
.005 $\pm$.740		.005 $\pm$.745		.005 $\pm$.750		.005 $\pm$.755	
.005 $\pm$.760		.005 $\pm$.765		.005 $\pm$.770		.005 $\pm$.775	
.005 $\pm$.780		.005 $\pm$.785		.005 $\pm$.790		.005 $\pm$.795	
.005 $\pm$.800		.005 $\pm$.805		.005 $\pm$.810		.005 $\pm$.815	
.005 $\pm$.820		.005 $\pm$.825		.005 $\pm$.830		.005 $\pm$.835	
.005 $\pm$.840		.005 $\pm$.845		.005 $\pm$.850		.005 $\pm$.855	
.005 $\pm$.860		.005 $\pm$.865		.005 $\pm$.870		.005 $\pm$.875	
.005 $\pm$.880		.005 $\pm$.885		.005 $\pm$.890		.005 $\pm$.895	
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.005 $\pm$.920		.005 $\pm$.925		.005 $\pm$.930		.005 $\pm$.935	
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.005 $\pm$.960		.005 $\pm$.965		.005 $\pm$.970		.005 $\pm$.975	
.005 $\pm$.980		.005 $\pm$.985		.005 $\pm$.990		.005 $\pm$.995	
.005 $\pm$.1000		.005 $\pm$.1005		.005 $\pm$.1010		.005 $\pm$.1015	
.005 $\pm$.1020		.005 $\pm$.1025		.005 $\pm$.1030		.005 $\pm$.1035	
.005 $\pm$.1040		.005 $\pm$.1045		.005 $\pm$.1050		.005 $\pm$.1055	
.005 $\pm$.1060		.005 $\pm$.1065		.005 $\pm$.1070		.005 $\pm$.1075	
.005 $\pm$.1080		.005 $\pm$.1085		.005 $\pm$.1090		.005 $\pm$.1095	
.005 $\pm$.1100		.005 $\pm$.1105		.005 $\pm$.1110		.005 $\pm$.1115	
.005 $\pm$.1120		.005 $\pm$.1125		.005 $\pm$.1130		.005 $\pm$.1135	
.005 $\pm$.1140		.005 $\pm$.1145		.005 $\pm$.1150		.005 $\pm$.1155	
.005 $\pm$.1160		.005 $\pm$.1165		.005 $\pm$.1170		.005 $\pm$.1175	
.005 $\pm$.1180		.005 $\pm$.1185		.005 $\pm$.1190		.005 $\pm$.1195	
.005 $\pm$.1200		.005 $\pm$.1205		.005 $\pm$.1210		.005 $\pm$.1215	
.005 $\pm$.1220		.005 $\pm$.1225		.005 $\pm$.1230		.005 $\pm$.1235	
.005 $\pm$.1240		.005 $\pm$.1245		.005 $\pm$.1250		.005 $\pm$.1255	
.005 $\pm$.1260		.005 $\pm$.1265		.005 $\pm$.1270		.005 $\pm$.1275	
.005 $\pm$.1280		.005 $\pm$.1285		.005 $\pm$.1290		.005 $\pm$.1295	
.005 $\pm$.1300		.005 $\pm$.1305		.005 $\pm$.1310		.005 $\pm$.1315	
.005 $\pm$.1320		.005 $\pm$.1325		.005 $\pm$.1330		.005 $\pm$.1335	
.005 $\pm$.1340		.005 $\pm$.1345		.005 $\pm$.1350		.005 $\pm$.1355	
.005 $\pm$.1360		.005 $\pm$.1365		.005 $\pm$.1370		.005 $\pm$.1375	
.005 $\pm$.1380		.005 $\pm$.1385		.005 $\pm$.1390		.005 $\pm$.1395	
.005 $\pm$.1400		.005 $\pm$.1405		.005 $\pm$.1410		.005 $\pm$.1415	
.005 $\pm$.1420		.005 $\pm$.1425		.005 $\pm$.1430		.005 $\pm$.1435	
.005 $\pm$.1440		.005 $\pm$.1445		.005 $\pm$.1450		.005 $\pm$.1455	
.005 $\pm$.1460		.005 $\pm$.1465		.005 $\pm$.1470		.005 $\pm$.1475	
.005 $\pm$.1480		.005 $\pm$.1485		.005 $\pm$.1490		.005 $\pm$.1495	
.005 $\pm$.1500		.005 $\pm$.1505		.005 $\pm$.1510		.005 $\pm$.1515	
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.005 $\pm$.1540		.005 $\pm$.1545		.005 $\pm$.1550		.005 $\pm$.1555	
.005 $\pm$.1560		.005 $\pm$.1565		.005 $\pm$.1570		.005 $\pm$.1575	
.005 $\pm$.1580		.005 $\pm$.1585		.005 $\pm$.1590		.005 $\pm$.1595	
.005 $\pm$.1600		.005 $\pm$.1605		.005 $\pm$.1610		.005 $\pm$.1615	
.005 $\pm$.1620		.005 $\pm$.1625		.005 $\pm$.1630		.005 $\pm$.1635	
.005 $\pm$.1640		.005 $\pm$.1645		.005 $\pm$.1650		.005 $\pm$.1655	
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.005 $\pm$.1740		.005 $\pm$.1745		.005 $\pm$.1750		.005 $\pm$.1755	
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.005 $\pm$.1840		.005 $\pm$.1845		.005 $\pm$.1850		.005 $\pm$.1855	
.005 $\pm$.1860		.005 $\pm$.1865		.005 $\pm$.1870		.005 $\pm$.1875	
.005 $\pm$.1880		.005 $\pm$.1885		.005 $\pm$.1890		.005 $\pm$.1895	
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.005 $\pm$.1940		.005 $\pm$.1945		.005 $\pm$.1950		.005 $\pm$.1955	
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.005 $\pm$.1980		.005 $\pm$.1985		.005 $\pm$.1990		.005 $\pm$.1995	
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.005 $\pm$.2020		.005 $\pm$.2025		.005 $\pm$.2030		.005 $\pm$.2035	
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.005 $\pm$.2060		.005 $\pm$.2065		.005 $\pm$.2070		.005 $\pm$.2075	
.005 $\pm$.2080		.005 $\pm$.2085		.005 $\pm$.2090		.005 $\pm$.2095	
.005 $\pm$.2100		.005 $\pm$.2105		.005 $\pm$.2110		.005 $\pm$.2115	
.005 $\pm$.2120		.005 $\pm$.2125		.005 $\pm$.2130		.005 $\pm$.2135	
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.005 $\pm$.2160		.005 $\pm$.2165		.005 $\pm$.2170		.005 $\pm$.2175	
.005 $\pm$.2180		.005 $\pm$.2185		.005 $\pm$.2190		.005 $\pm$.2195	
.005 $\pm$.2200		.005 $\pm$.2205		.005 $\pm$.2210		.005 $\pm$.2215	
.005 $\pm$.2220		.005 $\pm$.2225		.005 $\pm$.2230		.005 $\pm$.2235	
.005 $\pm$.2240		.005 $\pm$.2245		.005 $\pm$.2250		.005 $\pm$.2255	
.005 $\pm$.2260		.005 $\pm$.2265		.005 $\pm$.2270		.005 $\pm$.2275	
.005 $\pm$.2280		.005 $\pm$.2285		.005 $\pm$.2290		.005 $\pm$.2295	
.005 $\pm$.2300		.005 $\pm$.2305		.005 $\pm$.2310		.005 $\pm$.2315	
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.005 $\pm$.2340		.005 $\pm$.2345		.005 $\pm$.2350		.005 $\pm$.2355	
.005 $\pm$.2360		.005 $\pm$.2365		.005 $\pm$.2370		.005 $\pm$.2375	
.005 $\pm$.2380		.005 $\pm$.2385		.005 $\pm$.2390		.005 $\pm$.2395	
.005 $\pm$.2400		.005 $\pm$.2405		.005 $\pm$.2410		.005 $\pm$.2415	
.005 $\pm$.2420		.005 $\pm$.2425		.005 $\pm$.2430		.005 $\pm$.2435	
.005 $\pm$.2440		.005 $\pm$.2445		.005 $\pm$.2450		.005 $\pm$.2455	
.005 $\pm$.2460		.005 $\pm$.2465		.005 $\pm$.2470		.005 $\pm$.2475	
.005 $\pm$.2480		.005 $\pm$.2485		.005 $\pm$.2490		.005 $\pm$.2495	
.005 $\pm$.2500		.005 $\pm$.2505		.005 $\pm$.2510		.005 $\pm$.2515	
.005 $\pm$.2520		.005 $\pm$.2525		.005 $\pm$.2530		.005 $\pm$.2535	
.005 $\pm$.2540		.005 $\pm$.2545		.005 $\pm$.2550		.005 $\pm$.2555	
.005 $\pm$							

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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

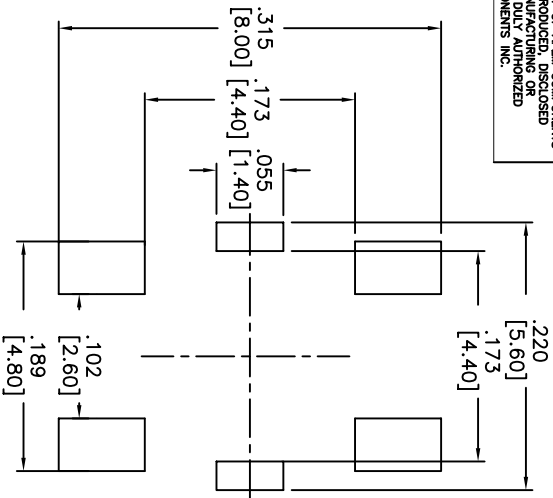
SOLDERING:
HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.
VAPOR & REFLOW: 255°C FOR 5 SEC. MAX.
NON-WASHABLE
LEAD FREE PROCESS COMPATIBLE
ROHS COMPLIANT

DATE	SYM	REVISION RECORD	DWN.	CK.

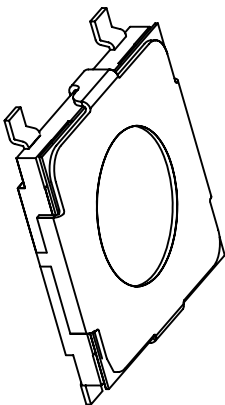
9A. INSECT.		APM		63 Neck Rd. 01835		DIN. CJD	
DESIGNATES OPTICAL DIMENSION		Haverhill, MA 01835		FAX 978-372-5554		BR. PJD	
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		INCH		SHEET 1 OF 1		SIZE B	
.XX = ±.02 [0.05]		MM		SCALE 10:1		THIRD ANGLE PROJECTION	
.XXX = ±.004 [0.20]		TITLE		MECHANICAL CONTACT SWITCH		DATE 4/26/06	
.XXX = ±.0008 [0.02]		DRAWING NO.		ATM53*V*		REV A	
ANGLE = 10.5°		DO NOT SCALE DRAWING					



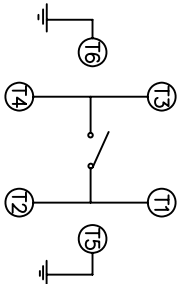
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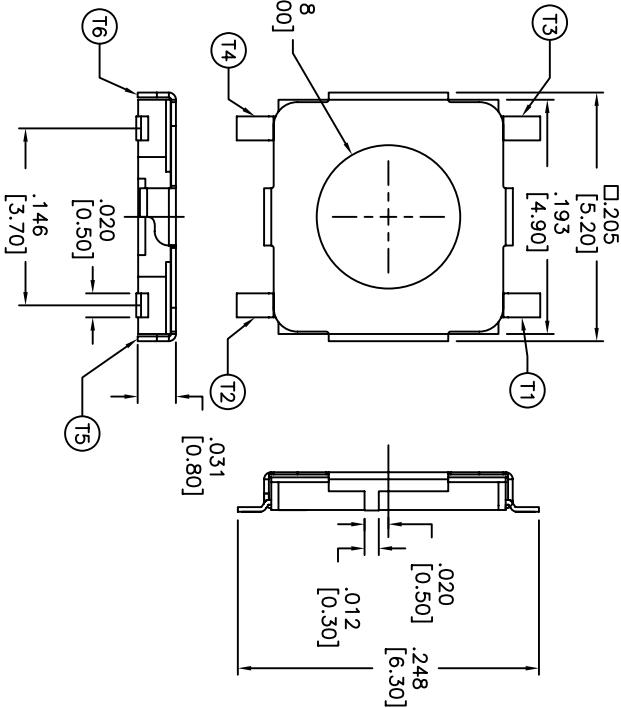
P.C.B. LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE $\pm .002$ [0.05]



ATM652*V*
PACKAGE STYLE:
2=100gf
3=160gf
4=260gf
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 $+70^{\circ}\text{C}$

STORAGE TEMPERATURE RANGE: -30°C TO $+80^{\circ}\text{C}$

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

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

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

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

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100m Ω MAX.

INSULATION RESISTANCE: 100M Ω 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

DATE	SYM	REVISION	RECORD	DWN.	CK.

Q.A. INSPECT.		DESIGNATES CRITICAL		DIMENSION		TOLERANCES (UNLESS AS NOTED) XXX=±.004[0.20] XXXX=±.0008[0.02] ANGLE = $\pm 0.5^{\circ}$		TITLE MECHANICAL CONTACT SWITCH		DATE 8/15/05		DRAWING NO. ATMG52*V*		REV A	
APPEM		63 Neck Rd. Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534		SHEET 1 OF 1		SIZE B		SCALE 10:1		THIRD ANGLE PROJECTION		P.D.		P.D.	

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OPERATION FORCE: ATUG52*V*
 2=100gf
 3=160gf
 4=260gf

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

DATE	SYM	REVISION RECORD	DWN.	CK.

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

SPECIFICATIONS:

OPERATION TEMPERATURE RANGE: -25°C TO +70°C
STORAGE TEMPERATURE RANGE: -55°C TO +125°C

STORAGE TEMPERATURE RANGE: -30°C to +80°C
VIBRATION TEST: PASSESS METHOD 201A MIL-STD-202E

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

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

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.
CONTACT RESISTANCE:

CONJUNCTION RESISTANCE: 100MΩ MAX.
INSULATION RESISTANCE: 100MΩ MIN.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

STROKE: 0.25 $\pm$ 0.10mm

CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

COVER: NICKEL SILVER

BASE: HIGH-TEMP. THERMOPLASTIC.
COLOR: BLACK

COLOR, BLACK.
STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL WITH SILVER CLADDING.

TERMINAL: BRASS WITH SILVER PLATING.

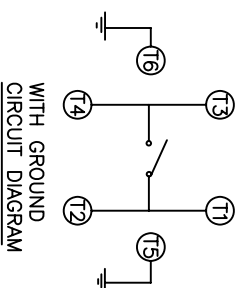
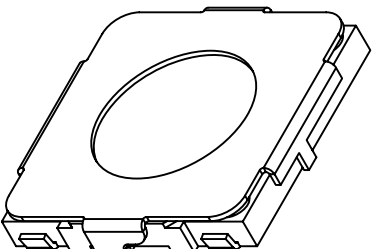
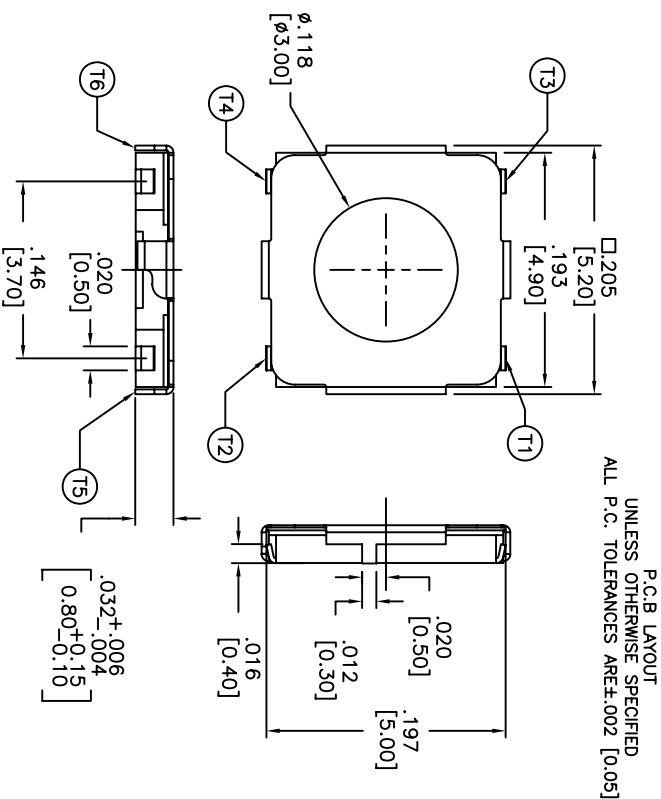
TAPE: TEFLON

SOLDERING:

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

IR REFLOW: 260°C MAX.

LEAD FREE PROC
DASH COMPLIANT



Q.A. INSPECT		PRN. CJD	
		CHK. PJD	
DESIGNS/REV. ORIGINAL		 APDM AERIAL PHOTOGRAPHIC DESIGN, INC. 4101 W. 10TH AVE. SUITE 100 DENVER, CO 80202 TEL: 303-733-1602 FAX: 303-737-1534	
DIMENSION		\$3 HOVELL RD. NEW HAVEN, CT 06515 TEL: 203-785-5772	
TOLERANCES (UNLESS OTHERWISE SPECIFIED) XXX ± .02 (0.0010) XXX ± .0008 (0.0020) XXXX ± .0004 (0.0010) ANGLE = ± .05°		INCH SHEET SIZE SCALE 1 OF 1 B 10:1	
TITLE MECHANICAL CONTACT SWITCH		THIRD ANGLE PROJECTION 	
DATE	DRAWING NO.	REV.	
8/11/06	ATJG52*V*	A	
DO NOT SCALE DRAWING			

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