

SPECIFICATIONS:

MATERIALS:
CASE: NYLON 66, BLACK
ACTUATOR: NYLON 66 OR PPS, SEE P/N TABLE
COVER: STEEL, TIN FINISH
MOVING CONTACT: COPPER ALLOY-SILVER FINISH
FIXED CONTACT/TERMINAL: COPPER ALLOY-SILVER OVER NICKEL FINISH

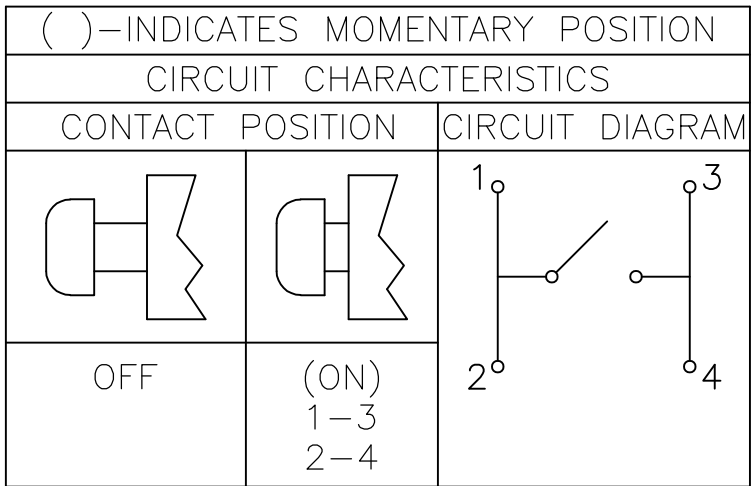
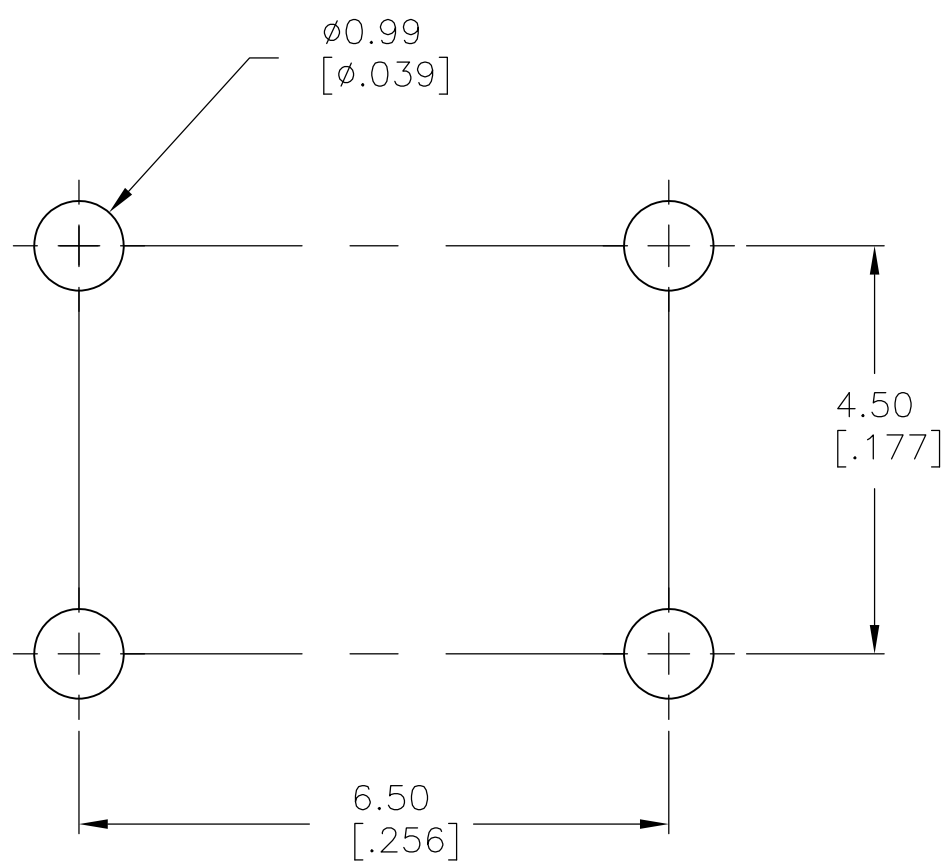
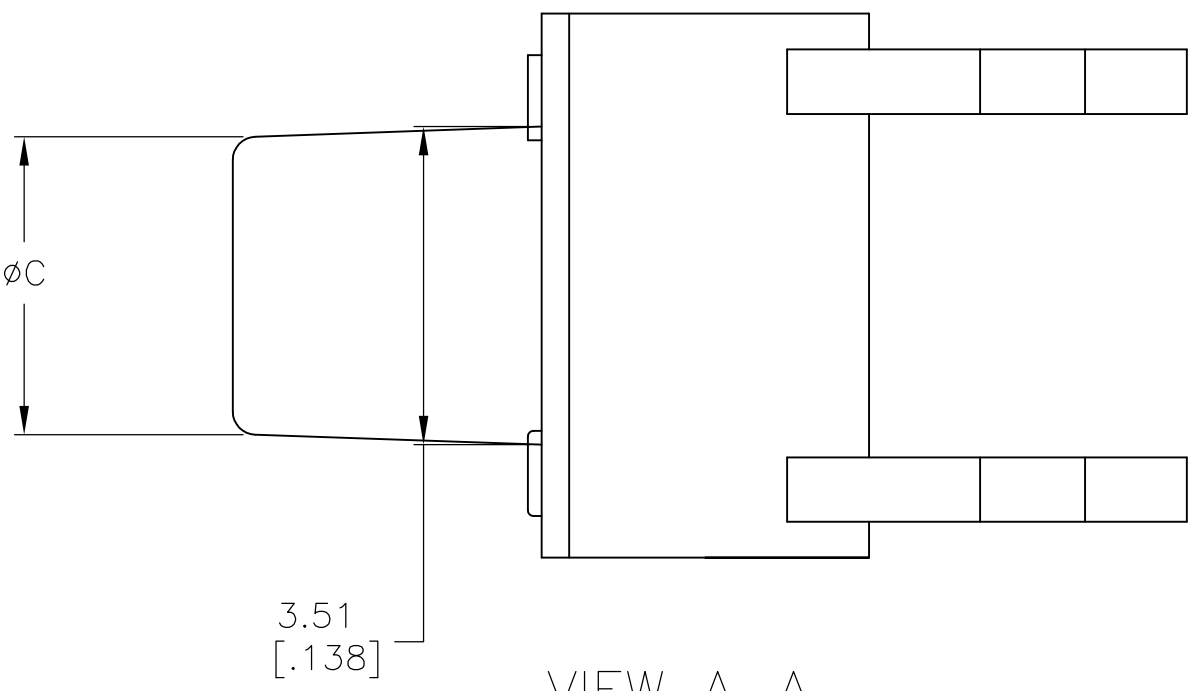
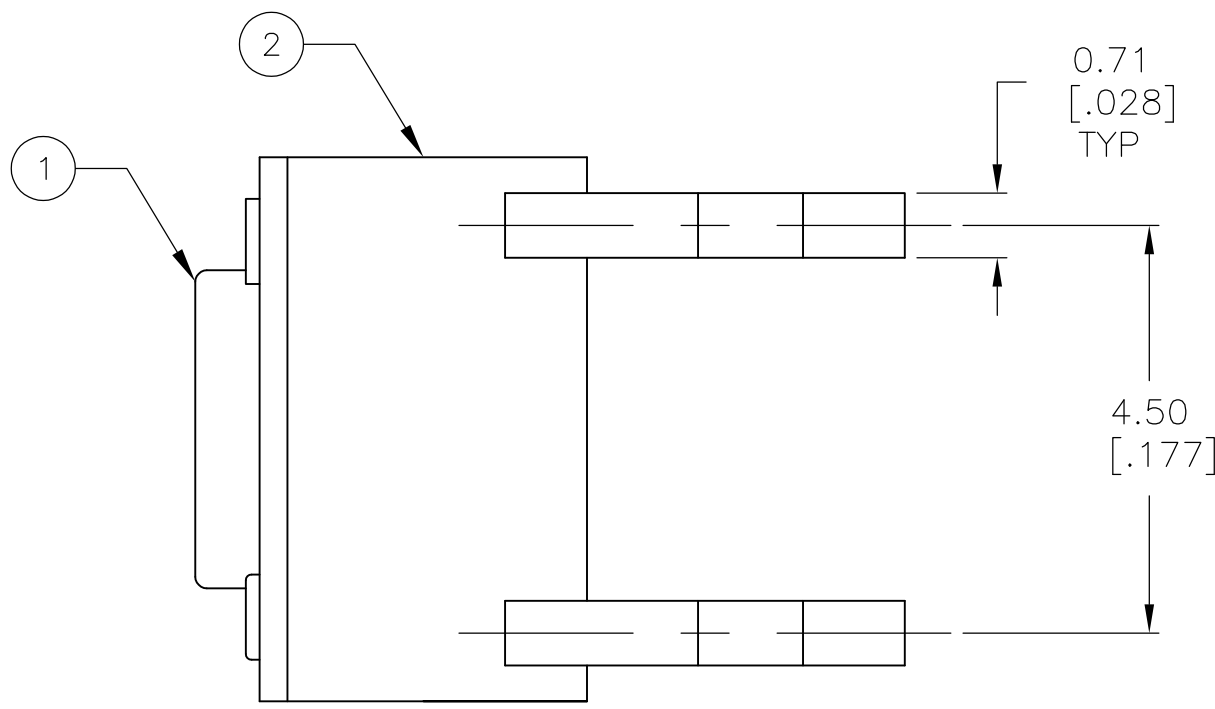
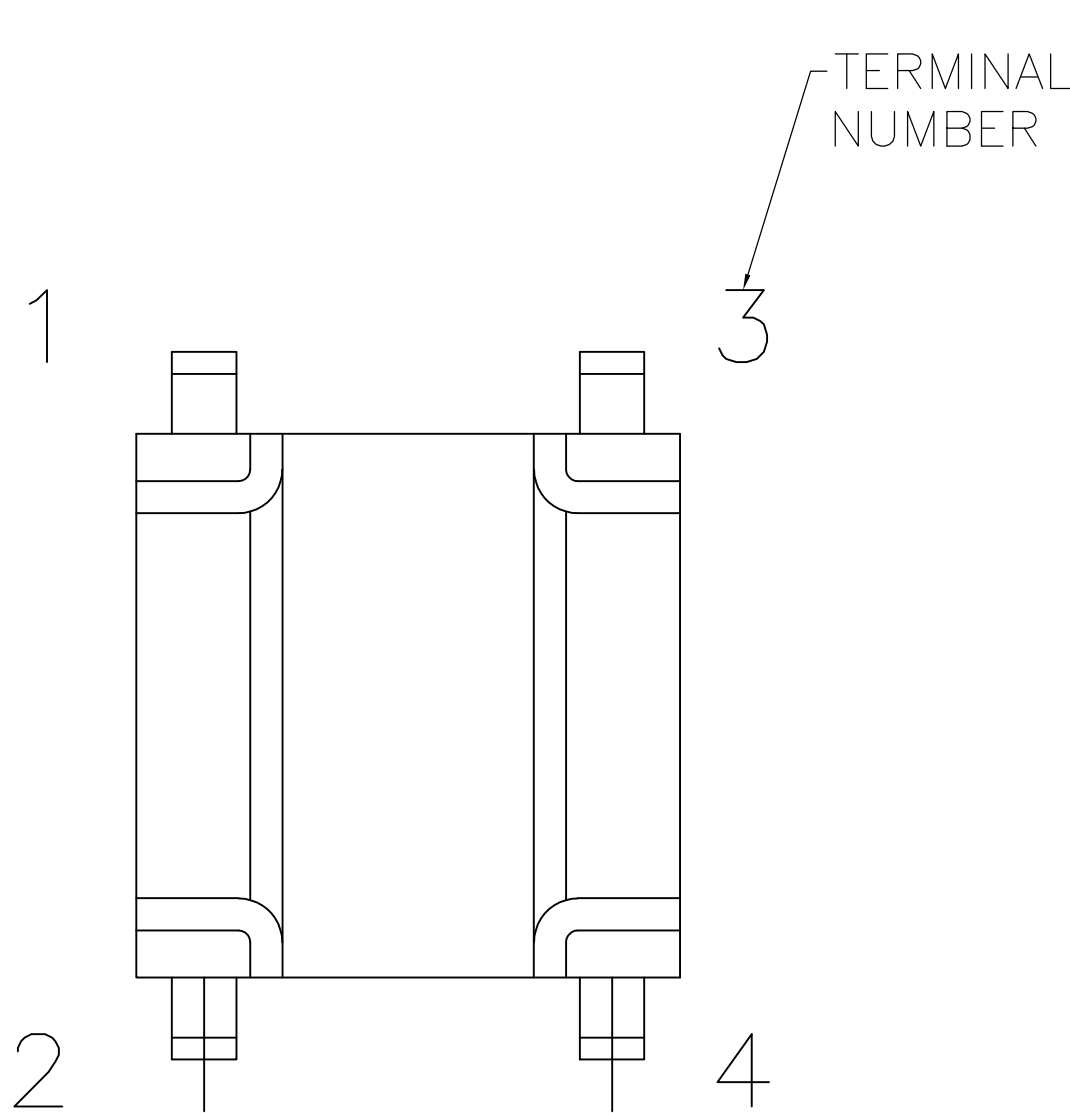
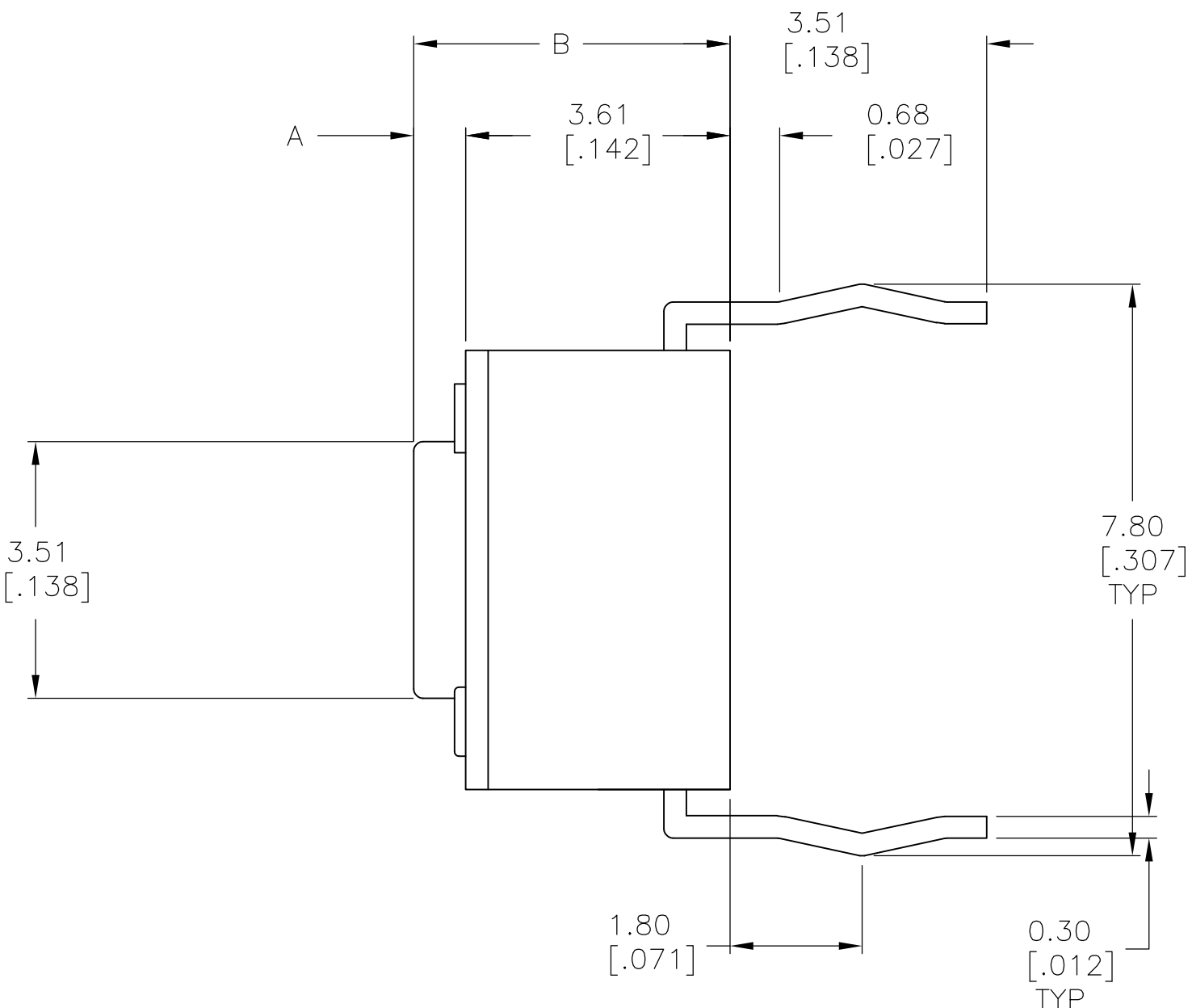
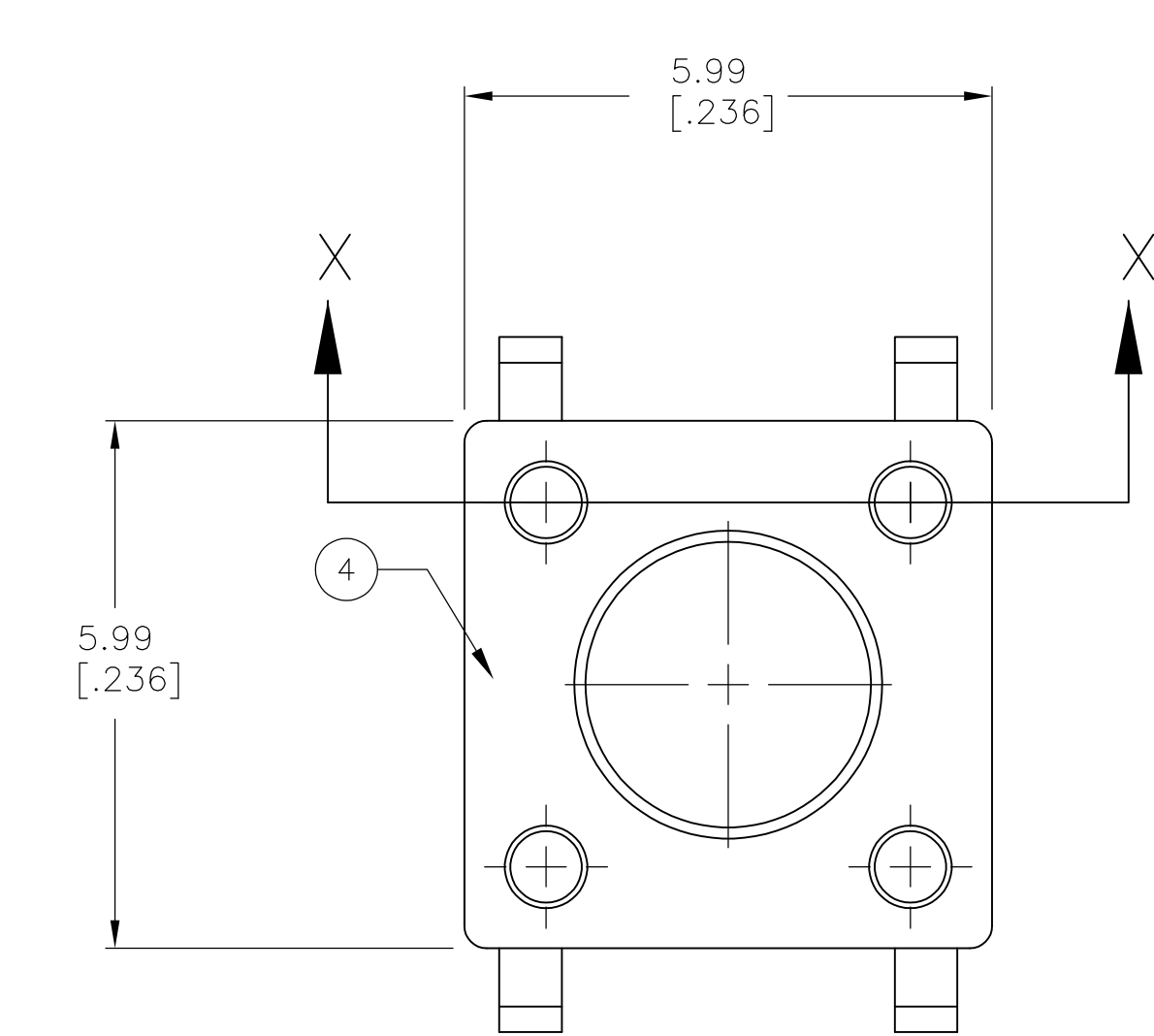
ELECTRICAL:
MAX CONTACT RATING: 50MILLIAMPS@24V DC,
MIN CONTACT RATING: 10MICROAMPS@1V DC
INITIAL CONTACT RESISTANCE, 100 MILLIOHMS MAX
INSULATION RESISTANCE, 100 MEGOHM MIN. @ 100V DC
DIELECTRIC STRENGTH, 500 V AC FOR 1 MINUTE
LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND AND 150%
ACTUATION FORCE), EXCEPT FOR THE 520 GF MODEL WHICH WOULD BE 50,000
CYCLES MIN.

MECHANICAL:
ACTUATION FORCE, SEE TABLE
ACTUATION TRAVEL, .010 +.008/-.004
LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND AND 150%
ACTUATION FORCE), EXCEPT FOR THE 520 GF MODEL WHICH WOULD BE 50,000
CYCLES MIN.

ENVIRONMENTAL:
OPERATING TEMPERATURE, -35 TO +85 DEGREES C
STORAGE TEMPERATURE, -35 TO +85 DEGREES C
THERMAL SHOCK, PER EIA-364-32C, -35 TO +85 DEGREES C
SOLDERABILITY, PER EIA-364-52, CLASS 2, CATEGORY 1, CATEGORY 2, 95%
MINIMUM COVERAGE
RESISTANCE TO SOLDER HEAT, PER 109-202, CONDITION B

Notes:
1. ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).

	NYLON 6T	YELLOW	520 +/-100 GF	3.09 (.122)	8.50 (.335)	4.90 (.193)	FSM18JAAHX	3-1977120-7	
	NYLON 6T	WHITE	260 +/-50 GF	3.09 (.122)	8.50 (.335)	4.90 (.193)	FSM18JAHX	3-1977120-6	
	PPS	BLACK	160 +/-50 GF	3.09 (.122)	8.50 (.335)	4.90 (.193)	FSM18JHX	3-1977120-5	
	PPS	BROWN	100 +/-50 GF	3.09 (.122)	8.50 (.335)	4.90 (.193)	FSM18JLHX	3-1977120-4	
	NYLON 6T	YELLOW	520 +/-100 GF	2.80 (.110)	17.00 (.669)	13.40 (.527)	FSM16JAAHX	3-1977120-3	
	OBSOLETE	NYLON 6T	WHITE	260 +/-50 GF	2.80 (.110)	17.00 (.669)	13.40 (.527)	FSM16JAHX	3-1977120-2
		PPS	BLACK	160 +/-50 GF	2.80 (.110)	17.00 (.669)	13.40 (.527)	FSM16JHX	3-1977120-1
		PPS	BROWN	100 +/-50 GF	2.80 (.110)	17.00 (.669)	13.40 (.527)	FSM16JLHX	3-1977120-0
	NYLON 6T	YELLOW	520 +/-100 GF	2.87 (.118)	13.00 (.512)	9.40 (.370)	FSM14JAAHX	2-1977120-9	
	NYLON 6T	WHITE	260 +/-50 GF	2.87 (.118)	13.00 (.512)	9.40 (.370)	FSM14JAHX	2-1977120-8	
	PPS	BLACK	160 +/-50 GF	2.87 (.118)	13.00 (.512)	9.40 (.370)	FSM14JHX	2-1977120-7	
	PPS	BROWN	100 +/-50 GF	2.87 (.118)	13.00 (.512)	9.40 (.370)	FSM14JLHX	2-1977120-6	
	NYLON 6T	YELLOW	520 +/-100 GF	3.20 (.126)	8.00 (.315)	4.40 (.173)	FSM12JAAHX	2-1977120-5	
	PPS	BLACK	260 +/-50 GF	3.20 (.126)	8.00 (.315)	4.40 (.173)	FSM12JABHX	2-1977120-4	
	OBSOLETE	NYLON 6T	WHITE	260 +/-50 GF	3.20 (.126)	8.00 (.315)	4.40 (.173)	FSM12JAHX	2-1977120-3
OBSOLETE	PPS	BLACK	160 +/-50 GF	3.20 (.126)	8.00 (.315)	4.40 (.173)	FSM12JHX	2-1977120-2	
OBSOLETE	PPS	BROWN	100 +/-50 GF	3.20 (.126)	8.00 (.315)	4.40 (.173)	FSM12JLHX	2-1977120-1	
	NYLON 6T	YELLOW	520 +/-100 GF	3.25 (.128)	7.30 (.287)	3.70 (.146)	FSM10JAAHX	2-1977120-0	
	NYLON 6T	WHITE	260 +/-50 GF	3.25 (.128)	7.30 (.287)	3.70 (.146)	FSM10JAHX	1-1977120-9	
	PPS	BLACK	160 +/-50 GF	3.25 (.128)	7.30 (.287)	3.70 (.146)	FSM10JHX	1-1977120-8	
	PPS	BROWN	100 +/-50 GF	3.25 (.128)	7.30 (.287)	3.70 (.146)	FSM10JLHX	1-1977120-7	
	NYLON 6T	YELLOW	520 +/-100 GF	3.10 (.122)	9.50 (.374)	5.90(.232)	FSM8JAAHX	1-1977120-6	
	NYLON 6T	WHITE	260 +/-50 GF	3.10 (.122)	9.50 (.374)	5.90(.232)	FSM8JAHX	1-1977120-5	
	PPS	BLACK	160 +/-50 GF	3.10 (.122)	9.50 (.374)	5.90(.232)	FSM8JHX	1-1977120-4	
	PPS	BROWN	100 +/-50 GF	3.10 (.122)	9.50 (.374)	5.90(.232)	FSM8JLHX	1-1977120-3	
	NYLON 6T	YELLOW	520 +/-100 GF	3.30(.130)	7.00 (.276)	3.40 (.134)	FSM6JAAHX	1-1977120-2	
	NYLON 6T	WHITE	260 +/-50 GF	3.30(.130)	7.00 (.276)	3.40 (.134)	FSM6JAHX	1-1977120-1	
	PPS	BLACK	160 +/-50 GF	3.30(.130)	7.00 (.276)	3.40 (.134)	FSM6JHX	1-1977120-0	
	PPS	BROWN	100 +/-50 GF	3.30(.130)	7.00 (.276)	3.40 (.134)	FSM6JLHX	1977120-9	
	NYLON 6T	YELLOW	520 +/-100 GF	N/A	5.00 (.196)	1.40 (.055)	FSM4JAAHX	1977120-8	
	NYLON 6T	WHITE	260 +/-50 GF	N/A	5.00 (.196)	1.40 (.055)	FSM4JAHX	1977120-7	
		PPS	BLACK	160 +/-50 GF	N/A	5.00 (.196)	1.40 (.055)	FSM4JHX	1977120-6
		PPS	BROWN	100 +/-50 GF	N/A	5.00 (.196)	1.40 (.055)	FSM4JLHX	1977120-5
	NYLON 6T	YELLOW	520 +/-100 GF	N/A	4.30 (.169)	0.70 (.028)	FSM2JAAHX	1977120-4	
	NYLON 6T	WHITE	260 +/-50 GF	N/A	4.30 (.169)	0.70 (.028)	FSM2JAHX	1977120-3	
	PA6T	GRAY	160 +/-50 GF	N/A	4.30 (.169)	0.70 (.028)	FSM2JHX	1977120-2	
	PPS	BROWN	100 +/-50 GF	N/A	4.30 (.169)	0.70 (.028)	FSM2JLHX	1977120-1	
	ACTUATOR MAT'L	ACTUATOR COLOR	ACTUATION FORCE	DIM C	DIM B	DIM A	ALCO P/N	TE P/N	



RECOMMENDED HOLE LAYOUT
TOLERANCE $\pm 0.05[.002]$ UNLESS
OTHERWISE NOTED

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[FSM4JHX](#)