

NOTES:

- 1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC
OF 27JAN2003 (ROHS).
- 2 EACH SWITCH WITH THREADED BUSHINGS SUPPLIED WITH THE FOLLWING MOUNTING HARDWARE:
(2) HEX NUTS
(1) INTERNAL TOOTH LOCKWASHER
(1) LOCATING RING.
- 3 G CONTACT OPTION CAN BE USED FOR SIGNAL OR POWER LEVEL SWITCHING. IF SWITCH IS
USED AT LEVELS EXCEEDING .4VA @ 20V AC/DC, SWITCH IS RENDERED FOR POWER SWITCHING
ONLY DUE TO ARC REMOVAL OF GOLD PLATING. RATING STAMPED ON FRAME IS 2A 250VAC,
5A 120VAC.



DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.

5

SP3T FUNCTION ACHIEVED WITH FUNCTIONS 11, 13 & 15 BY CUSTOMER APPLIED JUMPER BETWEEN TERMINALS 3 AND 5.



LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET.

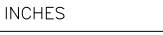
SPECIFICATIONS CHART

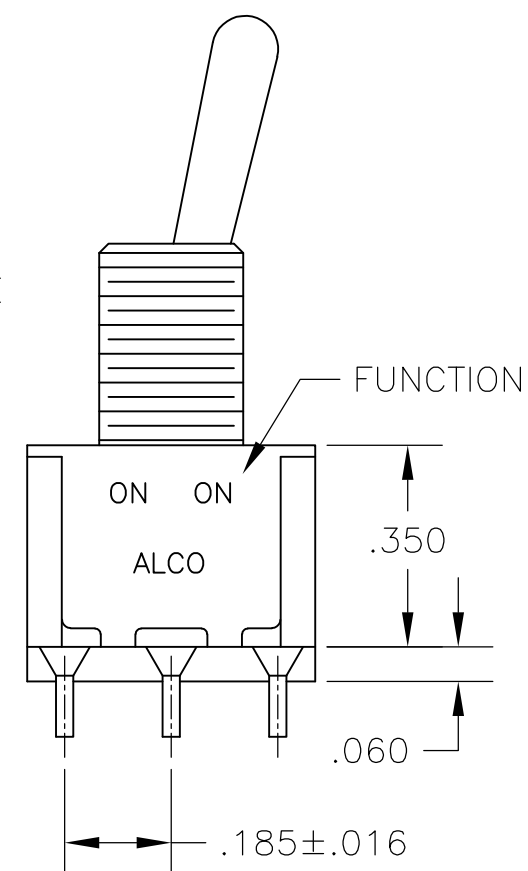
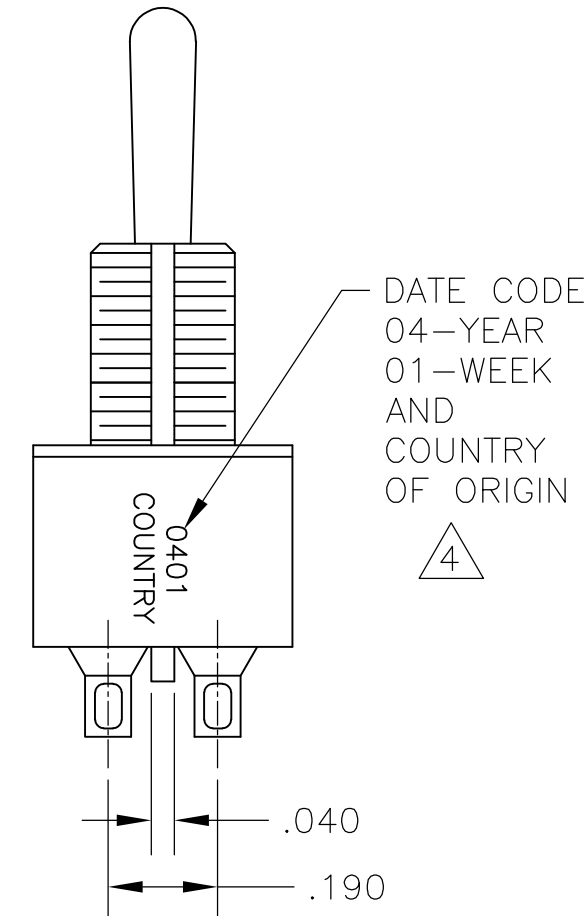
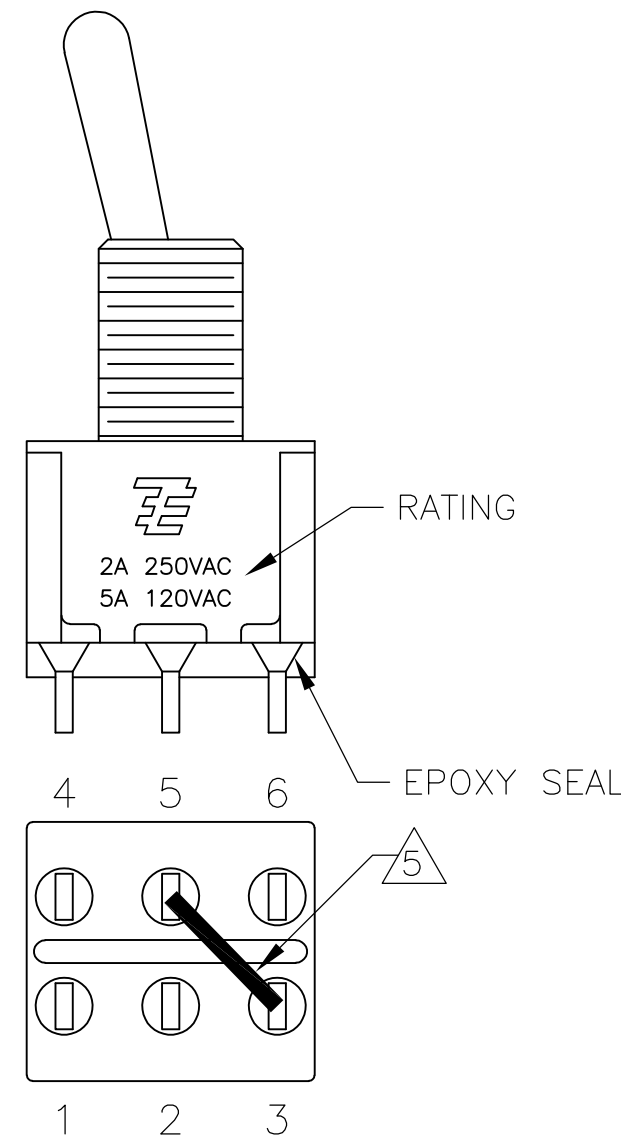
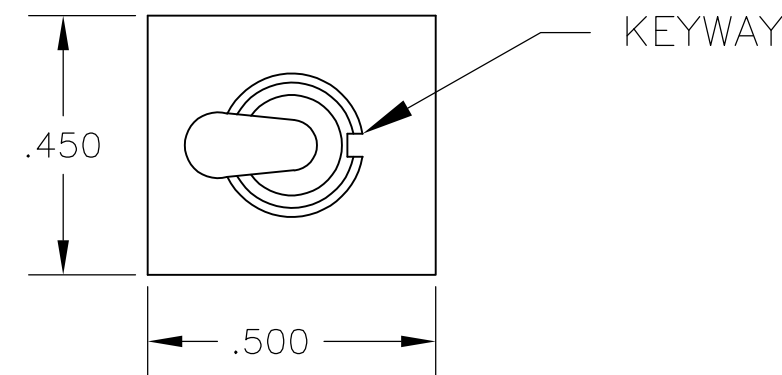
RATING, B CONTACTS	.4VA MAX @20V MAX. AC OR DC
RATING, G CONTACTS—SEE NOTE 3	.4VA MAX @20V MAX. AC OR DC OR
	5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
RATING, Q CONTACTS	5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
ELECTRICAL LIFE	6,000 CYCLES AT RATED LOAD
CONTACT RESISTANCE	10 MILLIOHMS MAX INITIAL @ 2–4VDC, 100ma
INSULATION RESISTANCE	1,000 MEGOHMS MIN
DIELECTRIC WITHSTANDING VOLTAGE	1,000 V RMS AT SEA LEVEL
OPERATING TEMPRATURE	–30C TO 85C

PART NUMBER SEQUENCE CHART

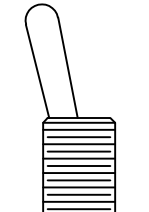
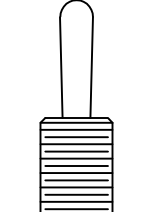
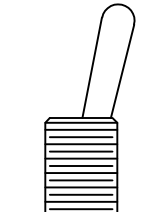
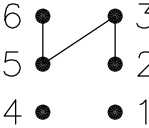
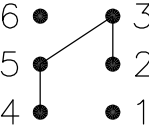
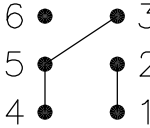
MODEL	FUNCTION	TOGGLE	BUSHING	TERMINAL	CONTACT	RoHS
A2	03	K	CW	A	B	04
	05	K1	D	AV2	G	
	07	L	D9	C	Q	
	11	L1	H	V30		
	13	L2	Y	V40		
	15	M	Y9	V70		
XAMPLE: A207SYZQ04		P3		W		
		S		W4		
		T		Z		
		T1		Z3		

EXAMPLE: A207SYZQ04

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. ZITTO		18MAY05		 TE Connectivity	
DIMENSIONS: INCHES		CHK M. ZITTO		—			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. ZITTO		—		NAME	
		PRODUCT SPEC		—		GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)	
0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± .010 4 PLC ± — ANGLES ± ± 2°		APPLICATION SPEC		—		—	
MATERIAL		FINISH		WEIGHT		RESTRICTED TO	
—		—		—		—	
CUSTOMER DRAWING						SCALE 3:1	
SHEET 1 OF 4						REV Δ 3	



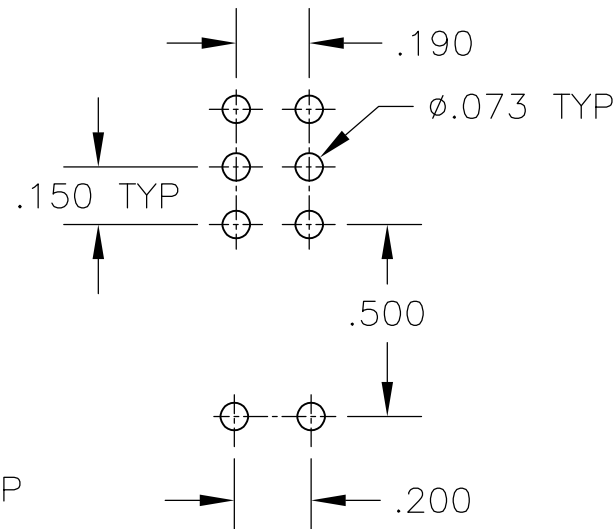
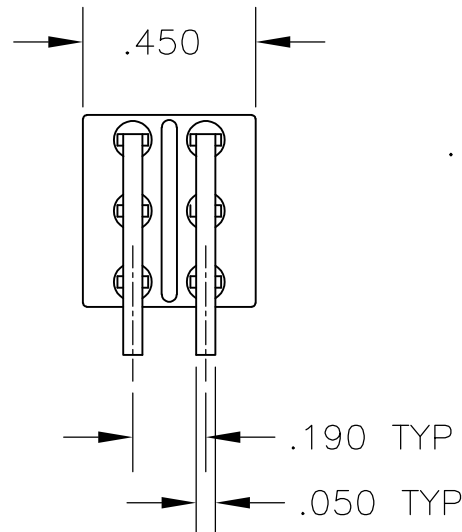
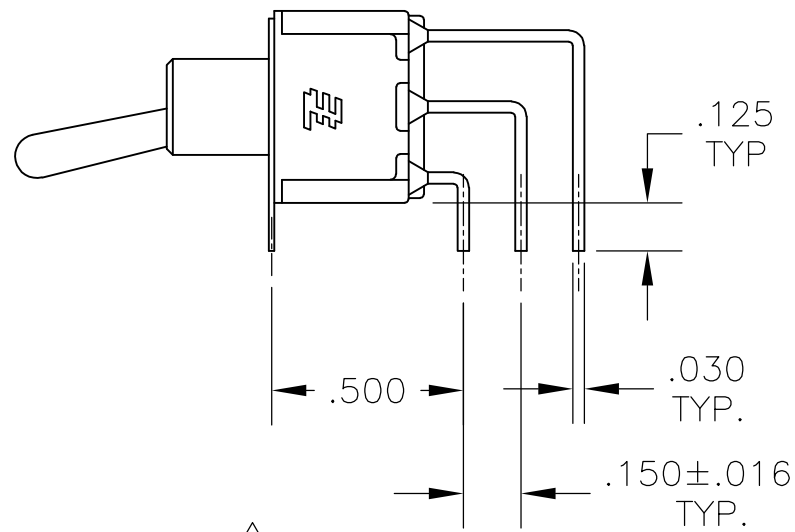
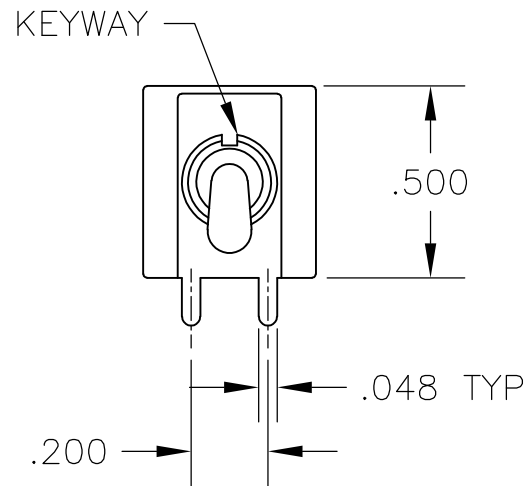
FUNCTION CHART

FUNCTION CHART			
FUNCTION			
03	ON	OFF	ON
05	(ON)	OFF	(ON)
07	ON	OFF	(ON)
TERMINALS CONNECTED	2-3, 5-6	---	1-2, 4-5
11	ON	ON	ON
13	ON	ON	(ON)
15	(ON)	ON	(ON)
TERMINALS CONNECTED	2-3, 5-6	2-3, 4-5	1-2, 4-5
SP3T SCHEMATIC (11, 13 & 15 ONLY) SEE NOTE 5			
	IN 2, OUT 6	IN 2, OUT 4	IN 2, OUT 1

None: No mechanical position
Off: Mechanical position with no electrical connection
(On): Momentary action

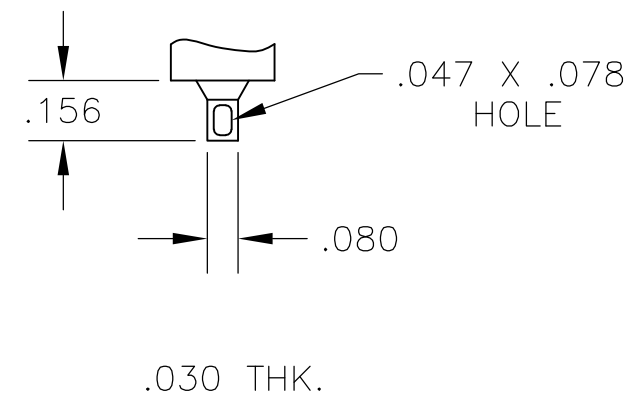
LOC		DIST		REVISIONS					
AD		00		P	LTR	DESCRIPTION		DATE	DWN
				-	-	SEE SHEET 1		-	-

D

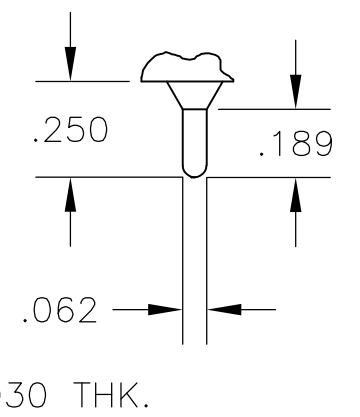


RECOMMENDED
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE 6

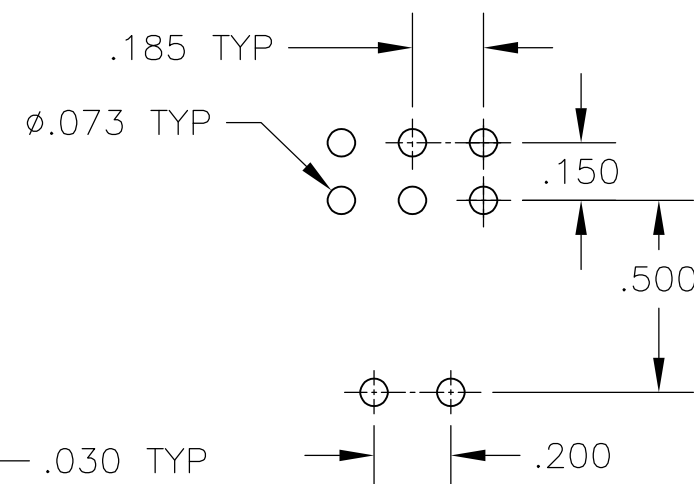
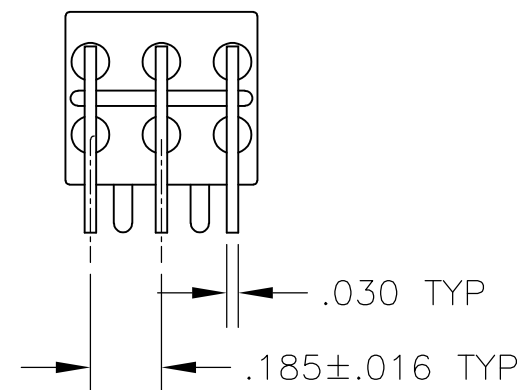
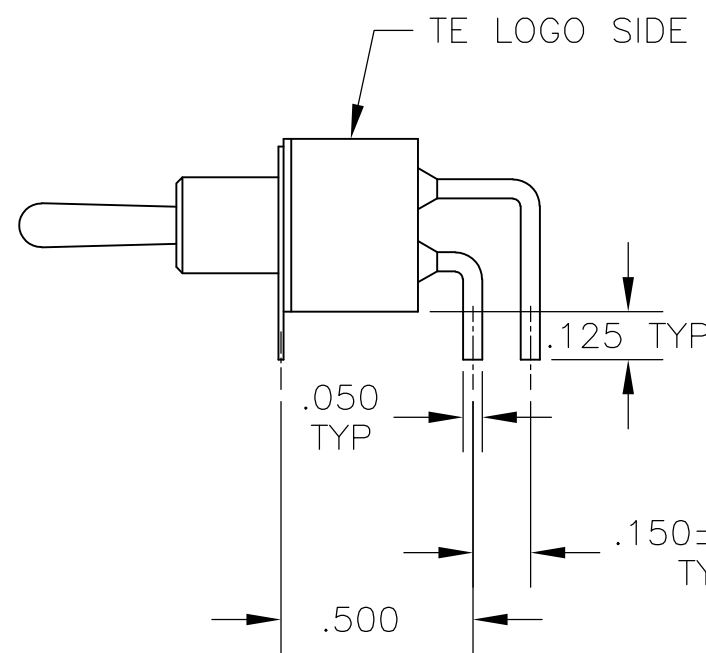
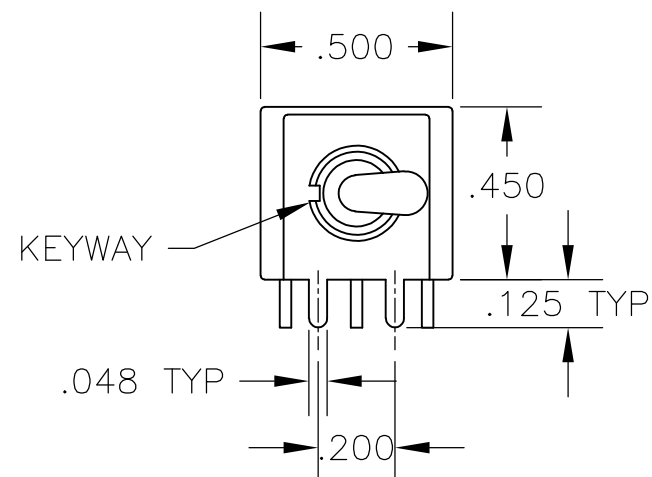


Z WIRE LUG



Z3 QUICK CONNECT

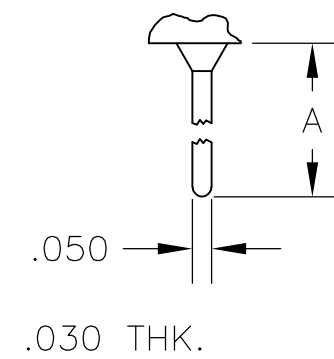
C



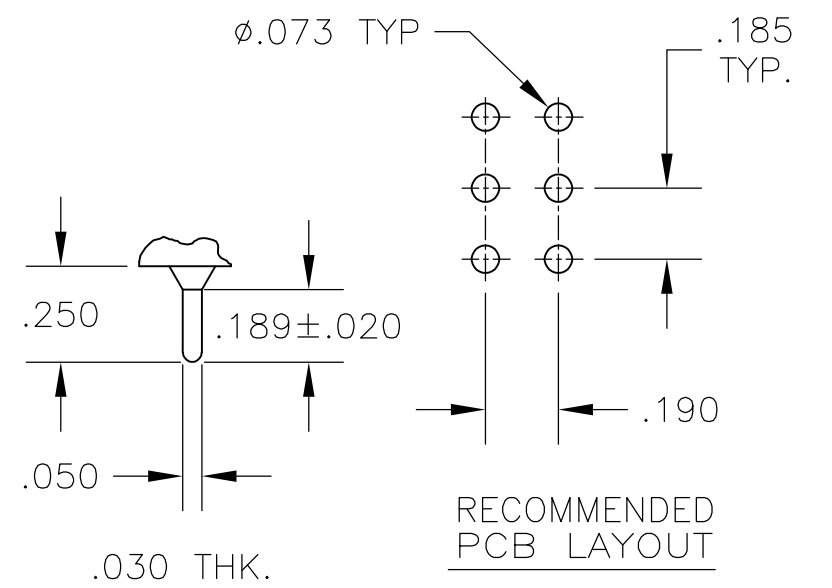
RECOMMENDED
PCB LAYOUT

A RIGHT ANGLE 6

OPTION	DIM A
W	.736
W4	1.062



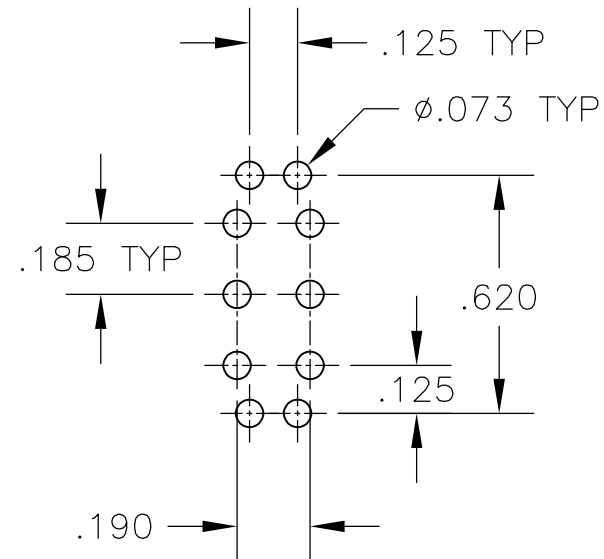
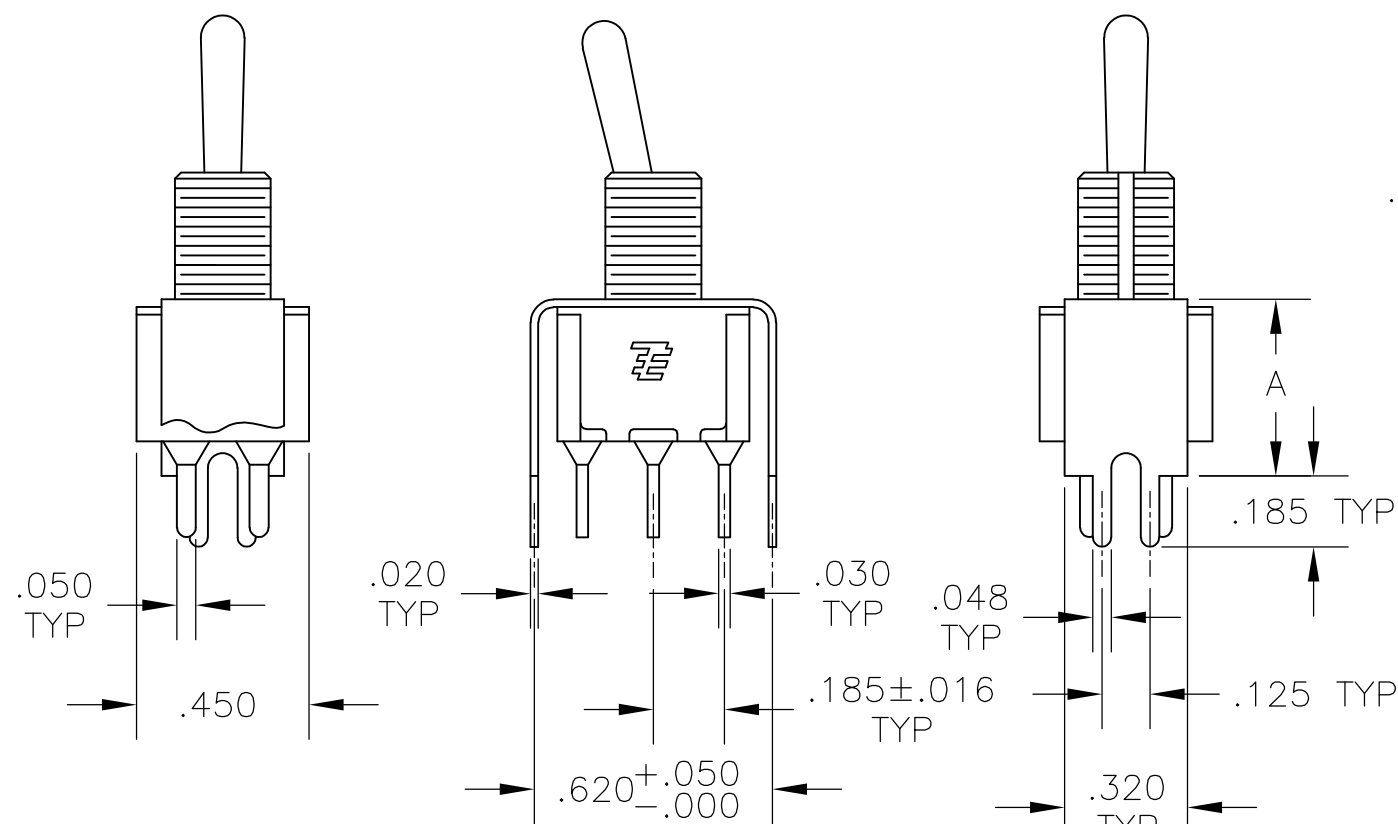
W W4 WIRE WRAP



RECOMMENDED
PCB LAYOUT

C PRINTED CIRCUIT

B



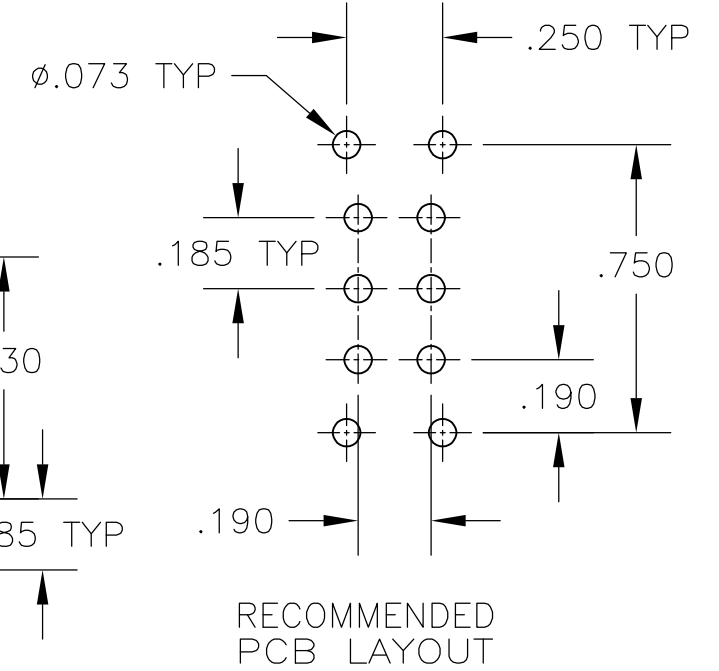
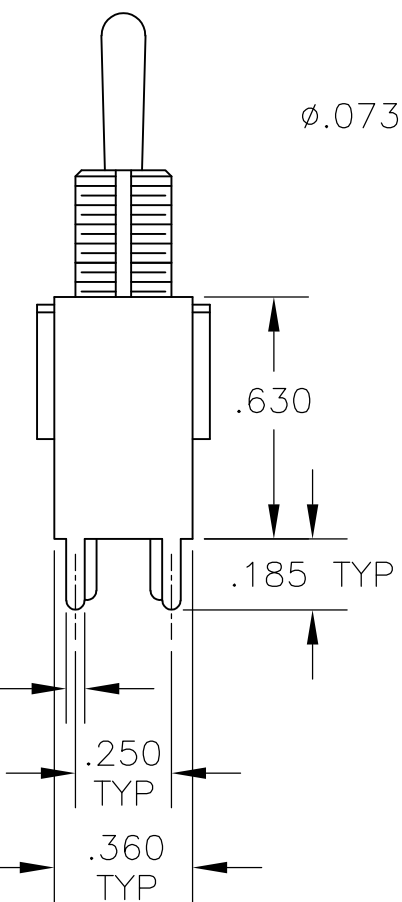
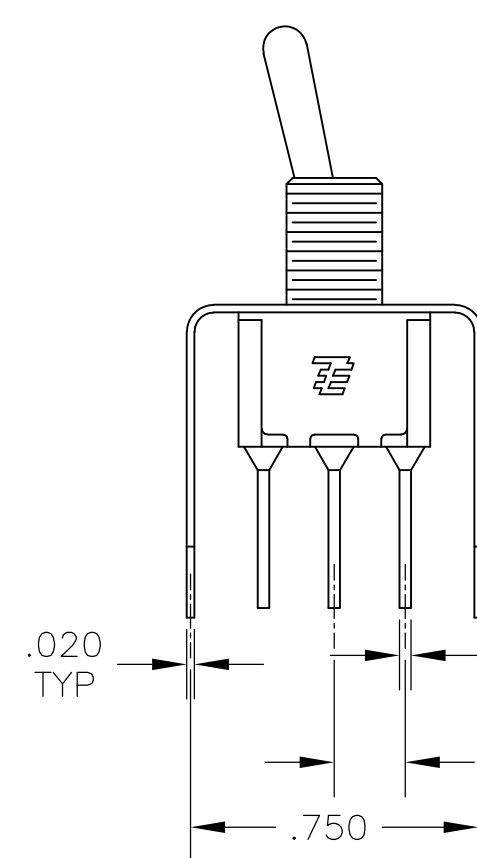
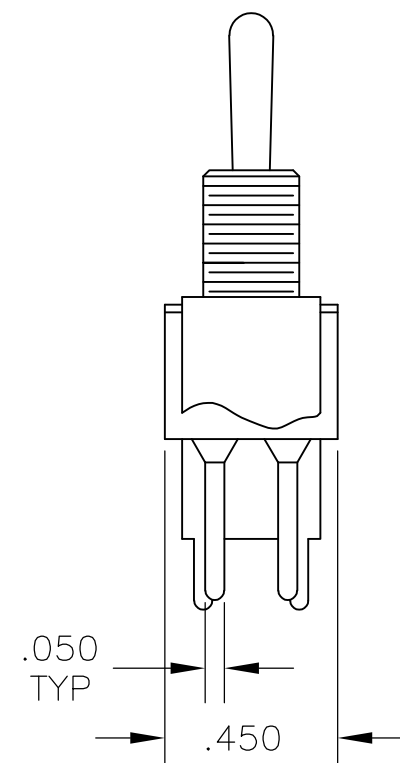
RECOMMENDED
PCB LAYOUT

OPTION	DIM A
V30	.460
V40	.630

V30 V40 6
VERTICAL SUPPORT BRACKET

V70

VERTICAL SUPPORT BRACKET



RECOMMENDED
PCB LAYOUT

A

THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN M. ZITTO		14APR05		 TE Connectivity				
DIMENSIONS:			TOLERANCES, UNLESS OTHERWISE SPECIFIED:			NAME					
INCHES			0 PLC ± -			GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,					
			1 PLC ± -			3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)					
			2 PLC ± -			-					
			3 PLC ± .010			SIZE					
			4 PLC ± -			CAGE CODE					
			ANGLES ± 2°			DRAWING NO					
MATERIAL			FINISH			RESTRICTED TO					
-			-			A2 00779 C-1825139					
CUSTOMER DRAWING						SCALE		SHEET		REV	
						2:1		3 of 4		A3	

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

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LOC
AD

DIST
00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

Alco P/N	P/N
A203KZQ04	1825139-1
A203MD9AB04	1825139-2
A203P3AV2Q04	1825139-3
A203P3ZQ04	1825139-4
A203SD9AV2B04	1825139-5
A203SD9AV2Q04	1825139-6
A203SDZQ04	1825139-7
A203SYCB04	1825139-8
A203SYCQ04	1825139-9
A203SYZQ04	1-1825139-0
A203T1ZQ04	1-1825139-1
A203TZQ04	1-1825139-2
A205KZB04	1-1825139-3
A205P3ZQ04	1-1825139-4
A205SD9AB04	1-1825139-5
A205SYCB04	1-1825139-6
A205SYCQ04	1-1825139-7
A205SYZQ04	1-1825139-8
A205T1ZQ04	1-1825139-9
A205TZQ04	2-1825139-0
A207P3ZQ04	2-1825139-1
A207SYCB04	2-1825139-2
A207SYCQ04	2-1825139-3
A207SYZQ04	2-1825139-4
A207T1ZQ04	2-1825139-5
A207TZQ04	2-1825139-6
A211KZB04	2-1825139-7
A211MD9AQ04	2-1825139-8
A211MYCQ04	2-1825139-9
A211P3CQ04	3-1825139-0
A211P3V40G04	3-1825139-1
A211P3ZQ04	3-1825139-2
A211SCWCQO04	3-1825139-3
A211SDZQ04	3-1825139-4
A211SHZQ04	3-1825139-5
A211SY9AQ04	3-1825139-6
A211SYCQ04	3-1825139-7
A211SYZB04	3-1825139-8
A211SYZQ04	3-1825139-9
A211T1ZQ04	4-1825139-0
not assigned	4-1825139-1
A213SYZQ04	4-1825139-2
A215SD9V30B04	4-1825139-3
A215SY9AQ04	4-1825139-4
A215SYZQ04	4-1825139-5

RECOMMENDED PANEL CUT-OUTS

BUSHING SIZE	WITHOUT LOCKING RING	WITH STANDARD LOCKING RING
1/4		
15/32		

MATERIALS CHART

COMPONENT NAME	BASE MATERIAL	FINISH
CASE	DAP, RED, UL94 V-0	
FRAME	STAINLESS STEEL	
B TERMINALS & CONTACTS	COPPER	GOLD OVER NICKEL
G TERMINALS & CONTACTS	COPPER	GOLD OVER SILVER
Q TERMINALS & CONTACTS	COPPER	.000400 SILVER
ACTUATOR	PHENOLIC, BLACK, UL94 V-1	
LEVER	BRASS	CHROME
BUSHING	BRASS	NICKEL
SPRING	MUSIC WIRE	
SUPPORT BRACKET	BRASS	TIN
PIVOT PIN	STEEL	NICKEL
LOCK WASHER	STAINLESS STEEL	
LOCKING RING	STAINLESS STEEL	
NUTS	C3604BD BRASS	NICKEL
TERMINAL SEAL	EPOXY	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .010
4 PLC ± -
ANGLES ± 2°
FINISH -

DWN
M. ZITTO

CHK
M. ZITTO

APVD
M. ZITTO

PRODUCT SPEC
-

APPLICATION SPEC
-

WEIGHT
-

CUSTOMER DRAWING

14APR05

-

-

NAME
GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,
3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)

SIZE
A2

CAGE CODE
00779

DRAWING NO
C-1825139

RESTRICTED TO
-

SCALE
3:1

SHEET
4 OF 4

REV
A3

1471-9 (3/11)

1825139

Mouser Electronics

Authorized Distributor

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[A205SYZQ04](#) [A203SYCB04](#) [A203SYZQ04](#) [A207SYZQ04](#) [A205SYCB04](#)