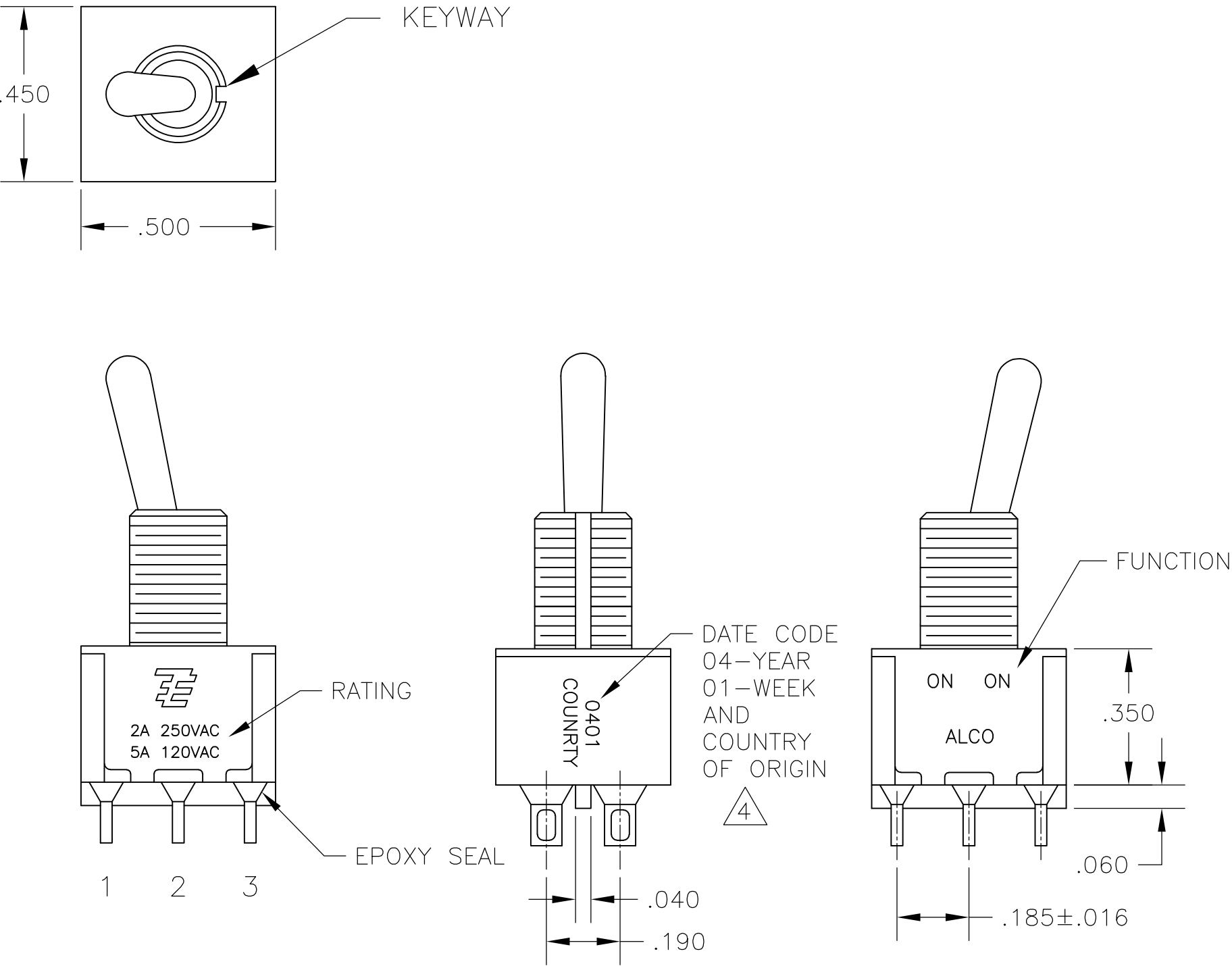




- 1
- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
- 2
- EACH SWITCH WITH THREADED BUSHINGS SUPPLIED WITH THE FOLLWING MOUNTING HARDWARE:
(2) HEX NUTS
(1) INTERNAL TOOTH LOCKWASHER
(1) LOCATING RING.
- 3
- G CONTACT OPTION CAN BE USED FOR SIGNAL OR POWER LEVEL 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 MARKED ON FRAME IS 2A 250VAC, 5A 120 VAC.
- 4
- DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 5
- LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET OPTIONS.
- 6
- ALL LOGO, RATING, DATE CODE, AND FUNCTION MARKINGS TO BE LASER MARKED.

FUNCTION CHART			
FUNCTION			
01	ON	NONE	ON
08	ON	NONE	(ON)
TERMINALS CONNECTED	2-3, 5-6	---	1-2, 4-5
None: No mechanical position Off: Mechanical position with no electrical connection (On): Momentary action			

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	01	K	CW	A	B	04
	08	K1	D	AV2	G	
		L	D9	C	Q	
		L1	H	V30		
		L2	Y	V40		
		M	Y9	V70		
		P3		W		
		S		W4		
		T		Z		
		T1		Z3		

EXAMPLE: A201SYCQ04

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

MATERIAL

DWN
M. ZITTO

CHK
M. ZITTO

APVD
M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

18MAY05

TE Connectivity

GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1825138

RESTRICTED TO

SCALE
3:1

SHEET
1 of 4

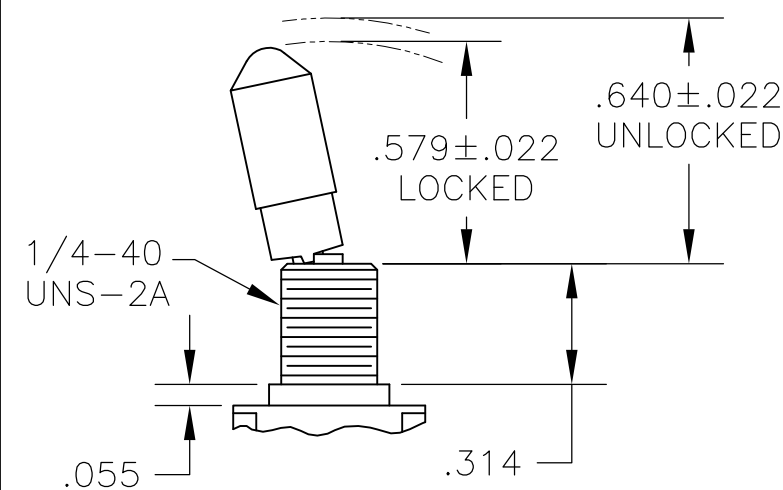
REV
A5

M SHORT

DIM L	BUSHING TYPE	DIM L	BUSHING TYPE
.200	Y, H	.410	Y, H
.270	D, D9	.480	D, D9

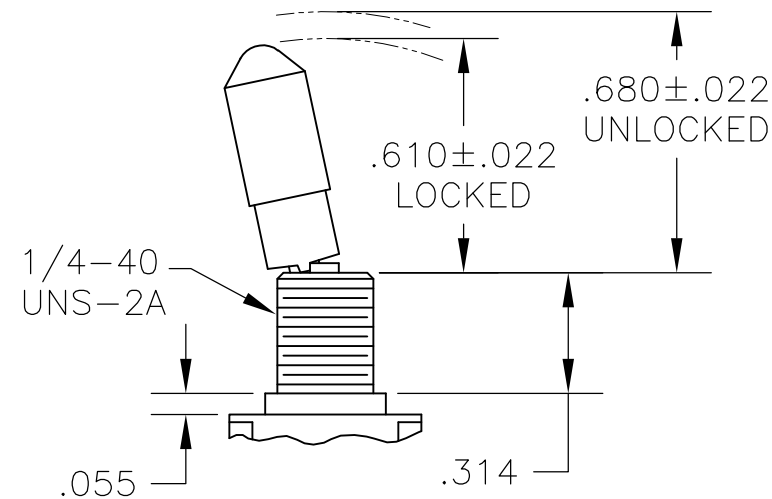


DIM L	BUSHING TYPE
.410	Y, H
.480	D, D9



K

NO BUSHING OPTION NEEDED



K1

NO BUSHING OPTION NEEDED



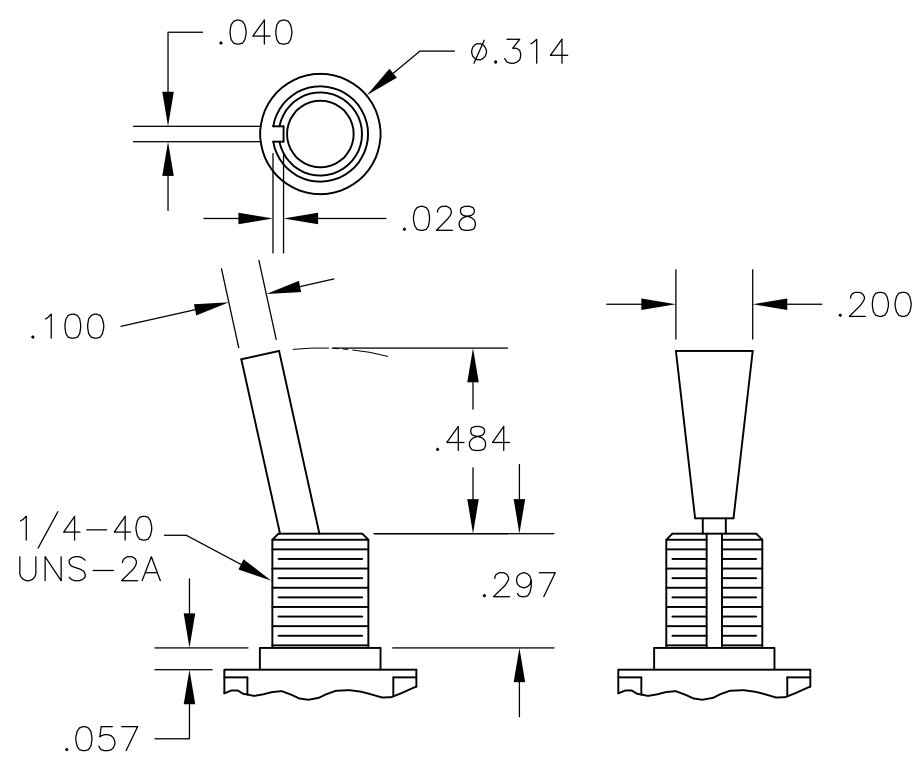
DIM L	BUSHING TYPE
.840	Y, H
.910	D, D9



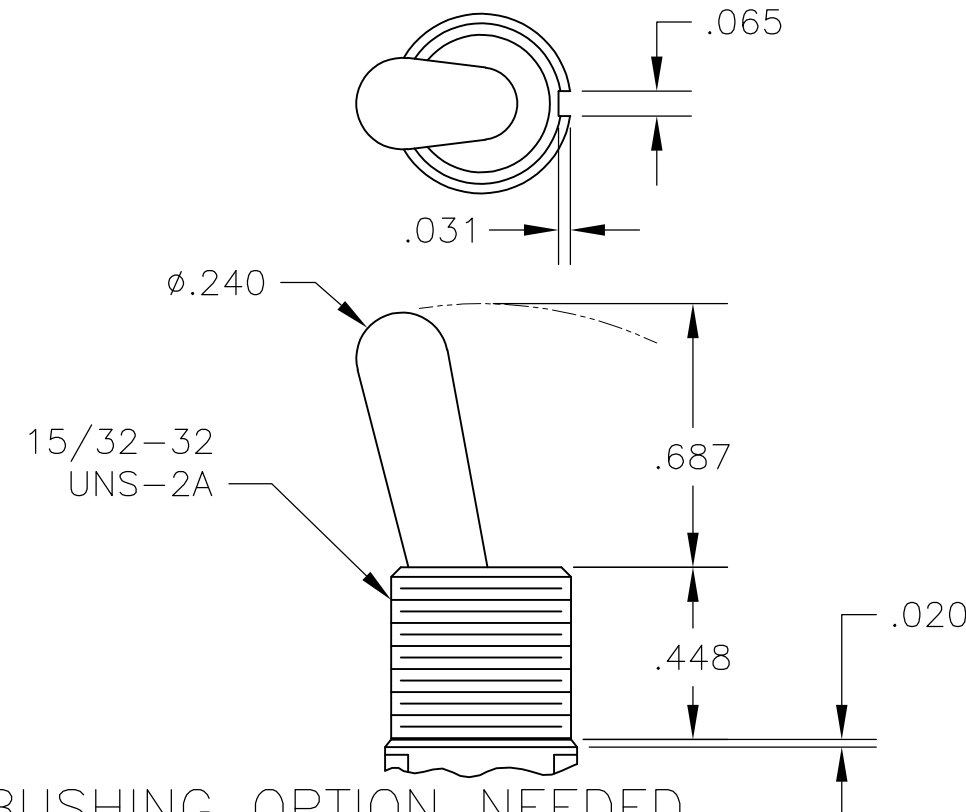
DIM L	BUSHING TYPE
.640	Y, H
.710	D, D9



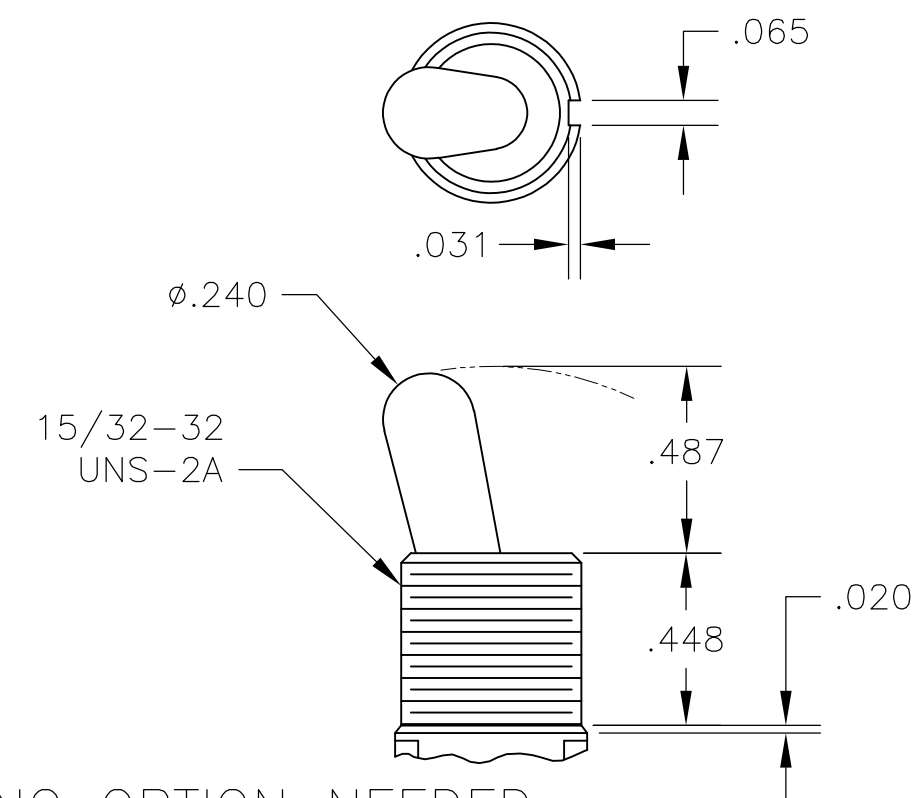
DIM L	BUSHING TYPE
.550	Y, H
.620	D, D9



P3 NO BUSHING OPTION NEEDED



☐ NO BUSHING OPTION NEEDED



T1 NO BUSHING OPTION NEEDED

1/4-40
UNS-2A

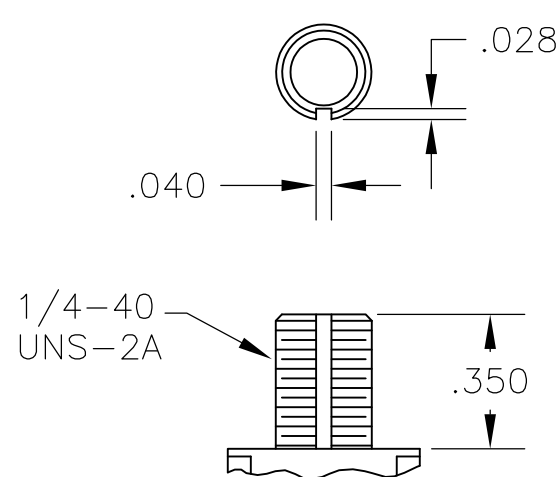
.040

.028

.280

D THREADED

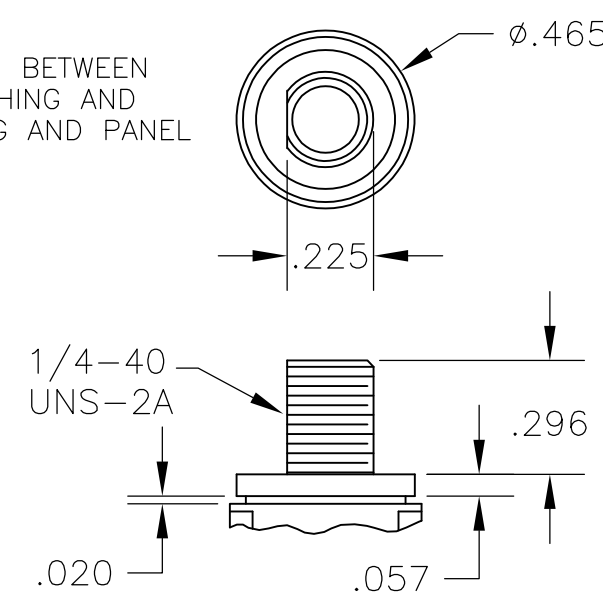
D9 UNTHREADED



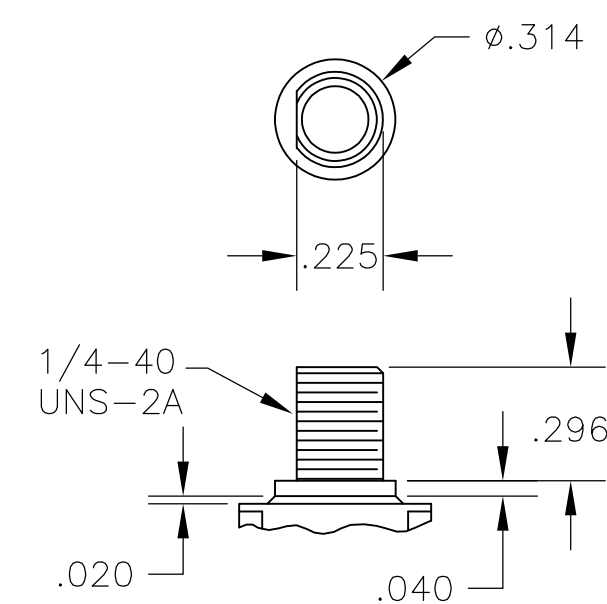
Y THREADED

Y9 UNTHREADED

CONTAINS O-RING BETWEEN
TOGGLE AND BUSHING AND
BETWEEN BUSHING AND PANEL



CW THREADED SPLASHPROOF



H	HIGH TORQUE
---	-------------

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
INCHES		0 PLC	± —
		1 PLC	± —
		2 PLC	± —
		3 PLC	± .010
		4 PLC	± —
		ANGLES	
MATERIAL	FINISH		
—		—	

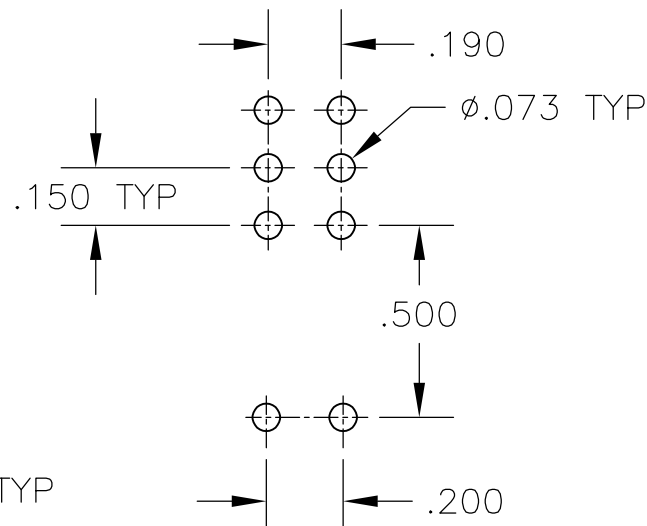
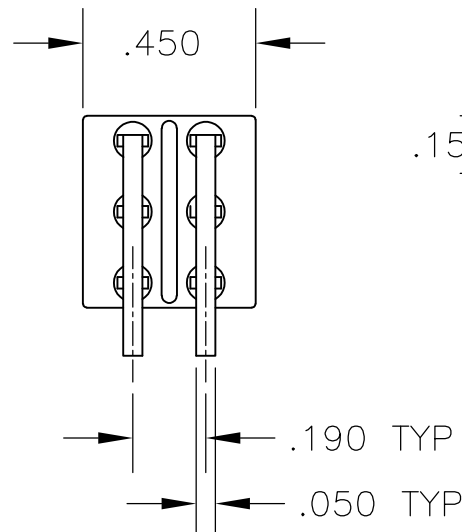
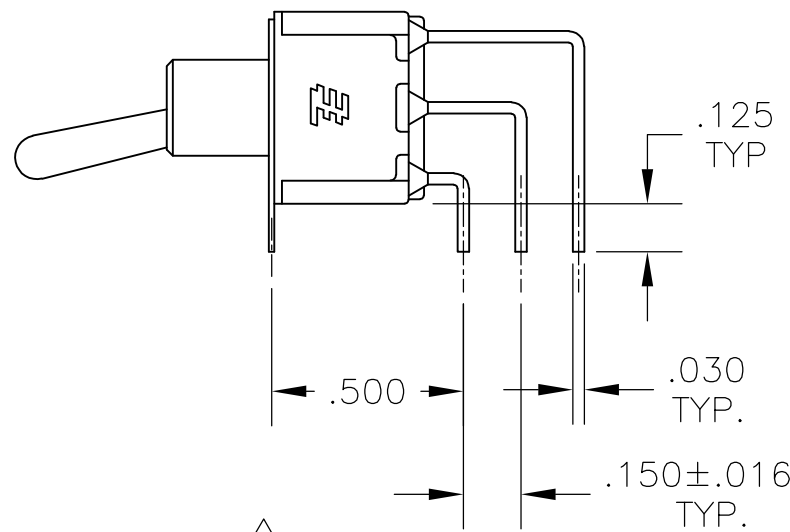
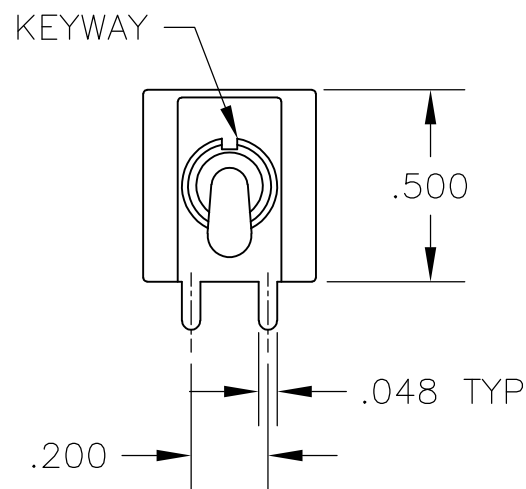
DWN	14APR05
M. ZITTO	
CHK	-
M.ZITTO	
APVD	-
P.BROUILLETTE	
PRODUCT SPEC	

—	
APPLICATION SPEC	
—	
WEIGHT	—
CUSTOMER DRAWING	

		TE Connectivity	
		NAME GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08) —	
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	 -1825138	—
SCALE 2:1		SHEET 2 OF 4	REV Δ5

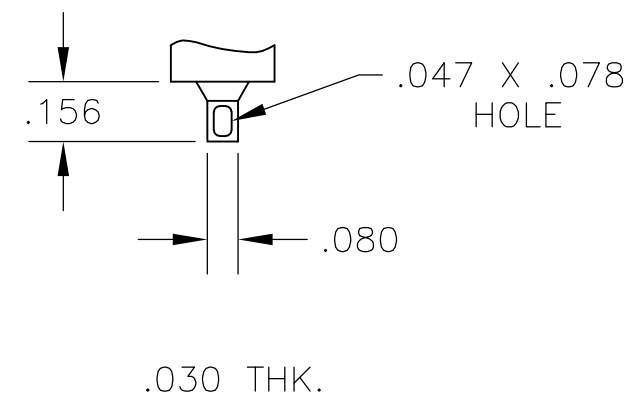
LOC		DIST		REVISIONS						
AD		00		P	LTR	DESCRIPTION		DATE	DWN	APVD
					—	SEE SHEET 1		—	—	—

D



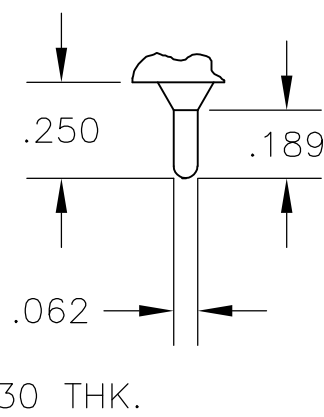
RECOMMENDED
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE 5



.030 THK.

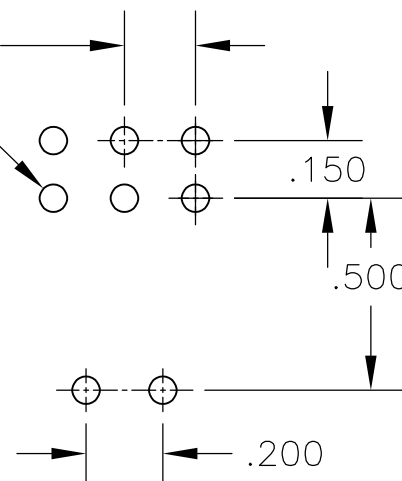
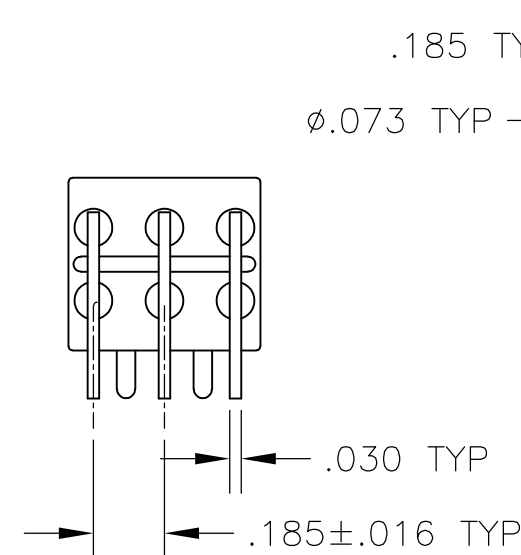
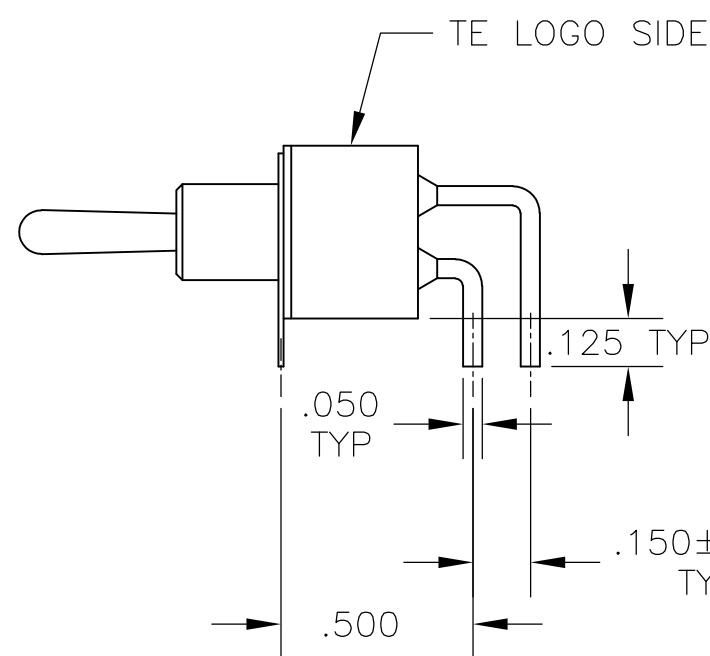
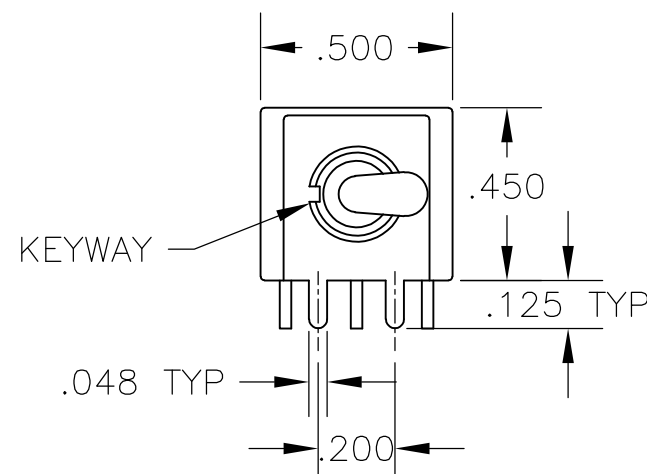
Z WIRE LUG



.030 THK.

Z3 QUICK CONNECT

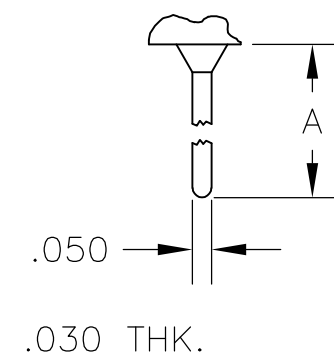
C



RECOMMENDED
PCB LAYOUT

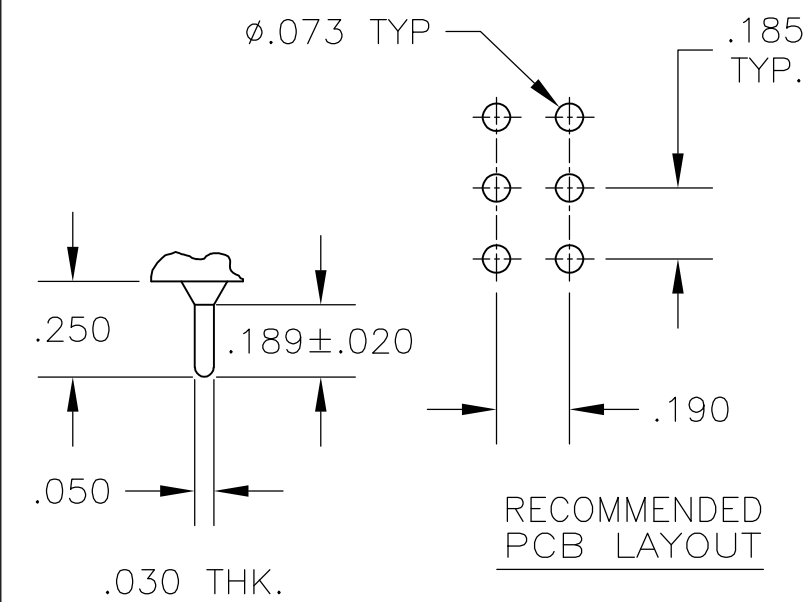
A RIGHT ANGLE 5

OPTION	DIM A
W	.736
W4	1.062



.030 THK.

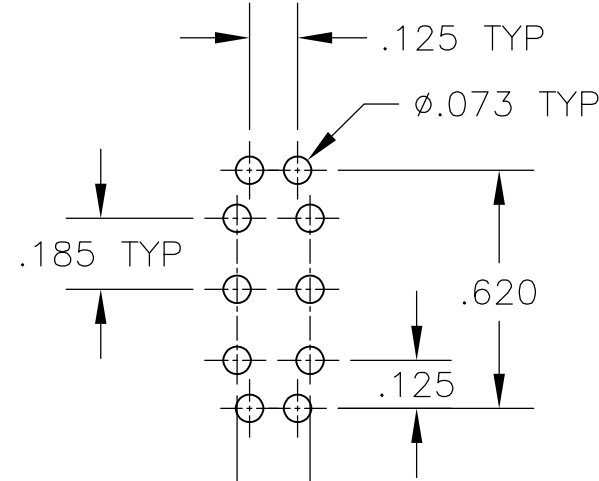
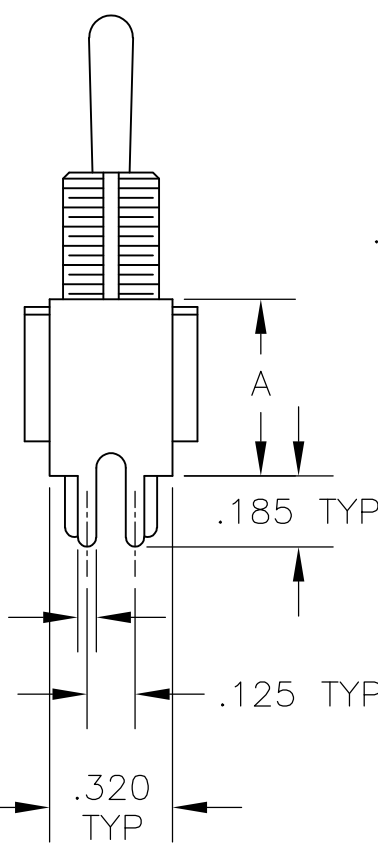
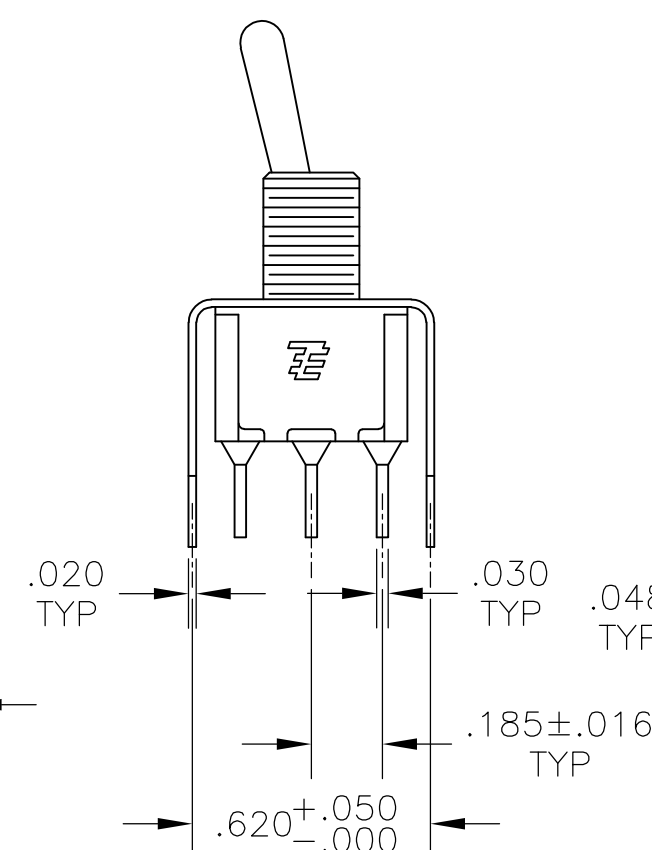
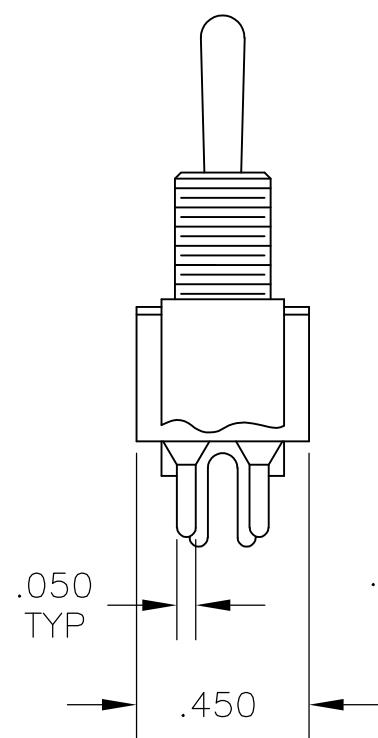
W W4 WIRE WRAP



RECOMMENDED
PCB LAYOUT

C PRINTED CIRCUIT

B



RECOMMENDED
PCB LAYOUT

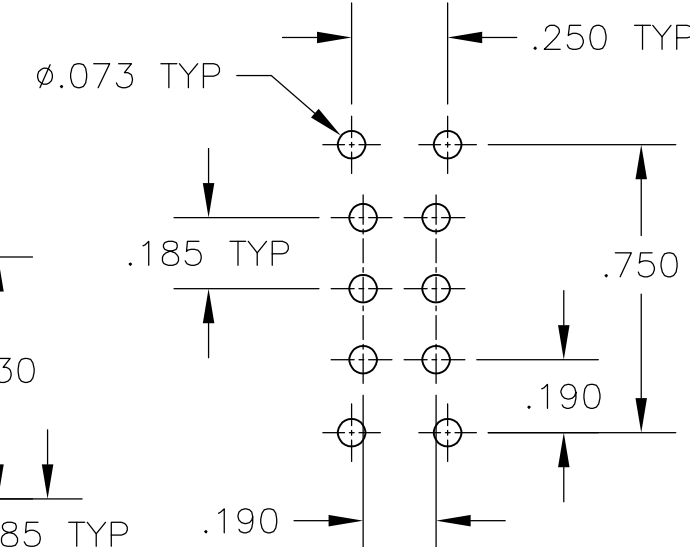
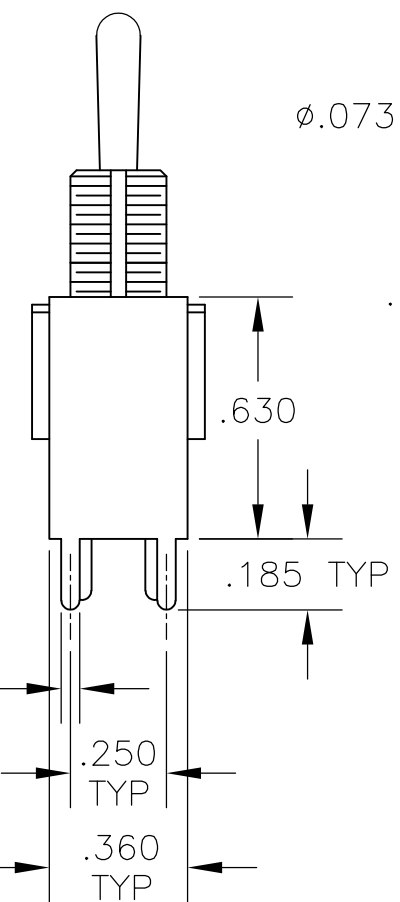
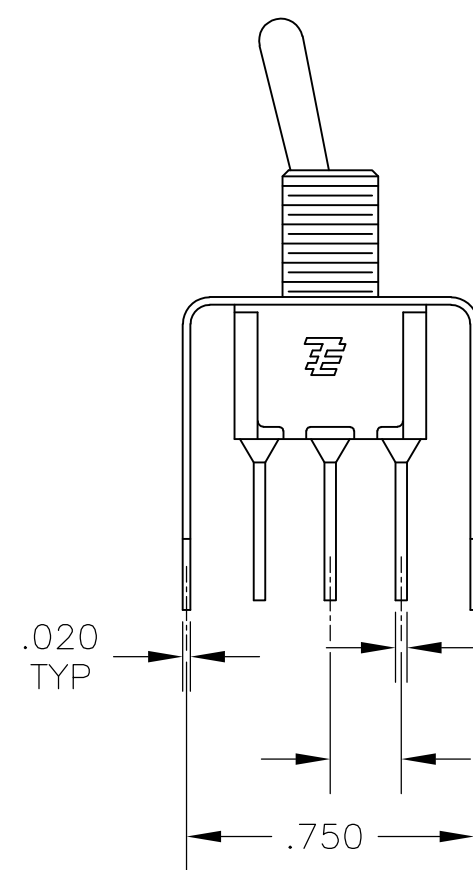
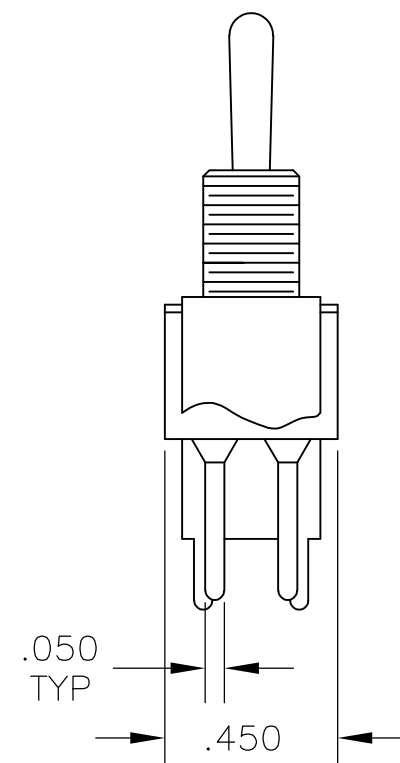
V30 V40 5

VERTICAL SUPPORT BRACKET

OPTION	DIM A
V30	.460
V40	.630

V70

VERTICAL SUPPORT BRACKET



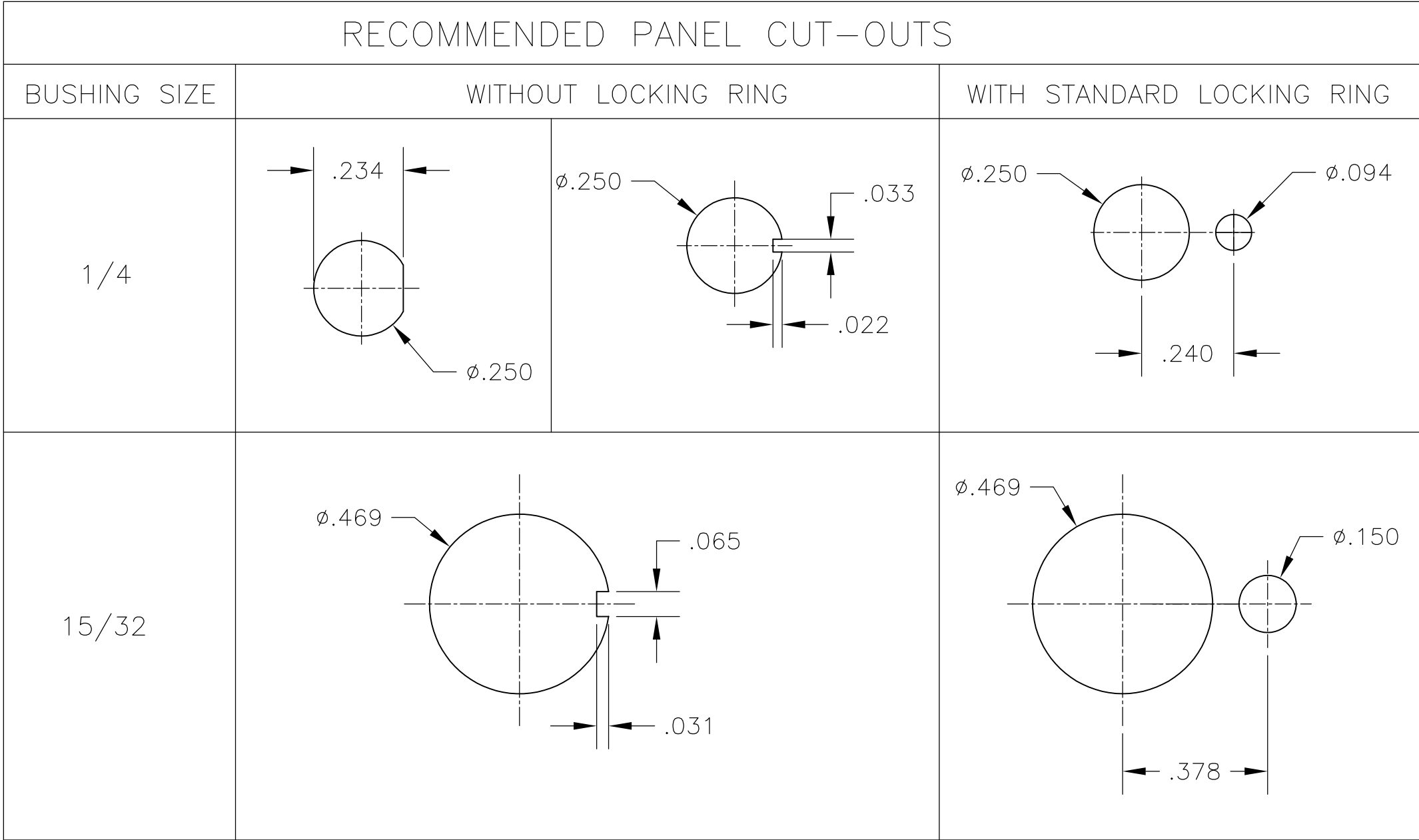
RECOMMENDED
PCB LAYOUT

A

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN M. ZITTO CHK M.ZITTO APVD P.BROUILLETTE		14APR05		 TE Connectivity					
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		NAME GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)							
		0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± .010 4 PLC ± — ANGLES ± —		APPLICATION SPEC —		SIZE A2		CAGE CODE 00779		DRAWING NO C=1825138		RESTRICTED TO —	
MATERIAL —		FINISH —		WEIGHT —		CUSTOMER DRAWING		SCALE 2:1		SHEET 3 of 4		REV A5	

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

Alco P/N	P/N
A201KAB04	1825138-1
A201KD9AQ04	1825138-2
A201KZQ04	1825138-3
not assigned	1825138-4
A201L1D9V30Q04	1825138-5
A201MD9AB04	1825138-6
A201MD9AQ04	1825138-7
A201MD9AV2B04	1825138-8
A201MD9AV2Q04	1825138-9
A201MDAQ04	1-1825138-0
not assigned	1-1825138-1
A201MYAQ04	1-1825138-2
A201MYCB04	1-1825138-3
A201MYZQ04	1-1825138-4
A201P3ZQ04	1-1825138-5
A201SCWZB04	1-1825138-6
A201SD9AQ04	1-1825138-7
A201SD9AV2Q04	1-1825138-8
A201SDCB04	1-1825138-9
A201SDZQ04	2-1825138-0
A201SY9AB04	2-1825138-1
A201SYAB04	2-1825138-2
A201SYAQ04	2-1825138-3
A201SYCB04	2-1825138-4
A201SYCQ04	2-1825138-5
A201SYWQ04	2-1825138-6
A201SYZB04	2-1825138-7
A201SYZQ04	2-1825138-8
A201T1ZQ04	2-1825138-9
not assigned	3-1825138-0
A201TZQ04	3-1825138-1
A208KZG04	3-1825138-2
A208P3ZQ04	3-1825138-3
A208SD9AQ04	3-1825138-4
A208SD9AV2Q04	3-1825138-5
A208SYCB04	3-1825138-6
A208SYCQ04	3-1825138-7
A208SYZQ04	3-1825138-8
A208T1ZQ04	3-1825138-9
A208TZQ04	4-1825138-0
A208SDCQ04	4-1825138-1
A201P3V30G04	4-1825138-2
A203MD9AQ-UL	4-1825138-3
A201MCWCB04	4-1825138-4
A201SCWCB04	4-1825138-5



MATERIALS CHART		
COMPONENT NAME	BASE MATERIAL	
CASE	DAP, RED, UL94 V-0	
FRAME	STAINLESS STEEL	FINISH
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.		DWN M. ZITTO	14APR05	TE Connectivity	
DIMENSIONS: INCHES		CHK M.ZITTO	-		
		APVD P.BROUILLETTE	-	NAME	
		PRODUCT SPEC			
MATERIAL -		APPLICATION SPEC		SIZE	
		WEIGHT -		CAGE CODE	
FINISH -		CUSTOMER DRAWING		DRAWING NO	
		SCALE 3:1		RESTRICTED TO	
		SHEET 4 of 4		REV A5	

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[A208SYCB04](#)