

2-1825138-4 Product Details

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2-1825138-4
(A201SYCB04)

TE Internal Number: 2-1825138-4

 Active

Toggle Switches

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Gemini A Series
- Double Pole - Double Throw Configuration (Pole-Throw)
- Current Rating = 0.4 VA A
- Mount Style = Through-Hole
- Termination Type = Printed Circuit

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Documentation & Additional Information

Product Drawings:

- [GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITI...](#) (PDF, English)

Catalog Pages/Data Sheets:

- [SWITCHES_CORE_PROGRAM_CATALOG](#) (PDF, English)
- [GEMINI_SERIES_SWITCHES_QUICK_REF_GUIDE_2-1773458-5](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Additional Product Images:

- [Product Photo](#)

Related Products:

- [Tooling](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Series = Gemini A
- Termination Type = Printed Circuit

Electrical Characteristics:

- Current Rating (A) = 0.4 VA

Termination Features:

- Seal Type = Terminal Seal (epoxy)

Body Features:

- Mount Style = Through-Hole
- Bushing Style = Threaded
- Bushing Type = 1/4-40

Contact Features:

- Contact Plating = Gold

Housing Features:

- Toggle Actuation = Vertical
- Toggle Style = Baton Long
- Toggle Length (mm [in]) = 10.40 [0.410]
- Process Sealed = No

Configuration Features:

- Configuration (Pole-Throw) = Double Pole - Double Throw
- [Operating Function](#) = On On

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C

- RoHS/ELV Compliance History = Always was RoHS compliant

Other:

- Brand = Alcoswitch

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Customer Support

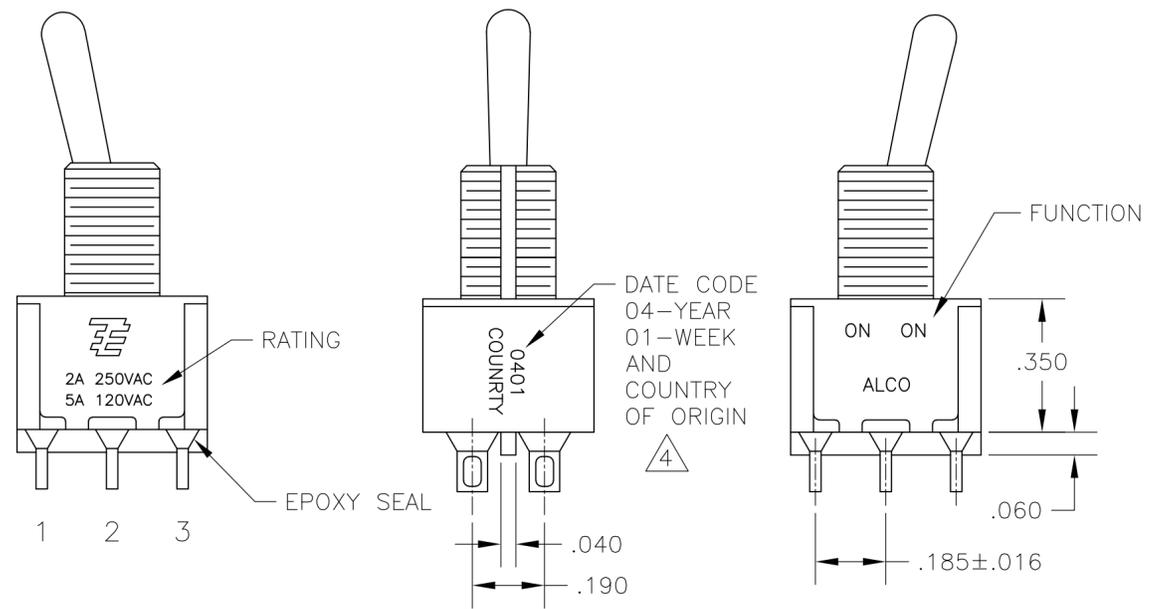
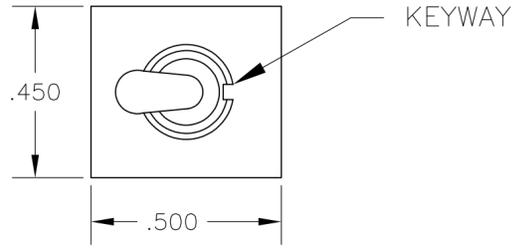
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LOC		DIST		REVISIONS			
AD	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		A4		REVISED PER ECO-11-004587	11MAR11	RK	HMR



- NOTES:
- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
 - EACH SWITCH WITH THREADED BUSHINGS SUPPLIED WITH THE FOLLWING MOUNTING HARDWARE:
 (2) HEX NUTS
 (1) INTERNAL TOOTH LOCKWASHER
 (1) LOCATING RING.
 - 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 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.

FUNCTION	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
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

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

MODEL	FUNCTION	TOGGLE	BUSHING	TERMINAL	CONTACT	RoHS
A2	01	K	CW	A	B	04
		K1	D	AV2	G	
	08	L	D9	C	Q	
		L1	H	V30		
		L2	Y	V40		
		M	Y9	V70		
		P3		W		
		S		W4		
		T		Z		
		T1		Z3		

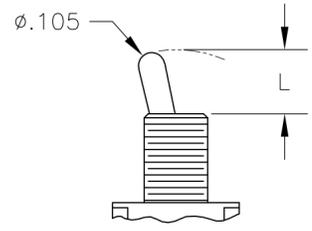
EXAMPLE: A201SYCQ04

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DIMENSIONS: INCHES		CHK M. ZITTO	-		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. ZITTO	-	NAME	
0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .010 4 PLC ± - ANGLES ± 2°		PRODUCT SPEC	-	GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)	
MATERIAL		APPLICATION SPEC	-	SIZE	RESTRICTED TO
FINISH		WEIGHT	-	A2 00779	-
		CUSTOMER DRAWING	-	CAGE CODE	DRAWING NO
				00779	1825138
				SCALE	SHEET
				3:1	1 of 4
				REV	A4

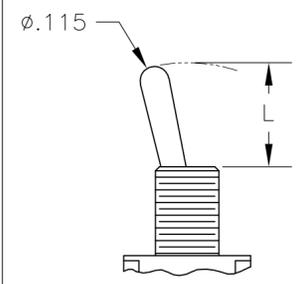
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P	LTR	DESCRIPTION	DATE	DWN	APVD		
AD	00	SEE SHEET 1	-	-	-		

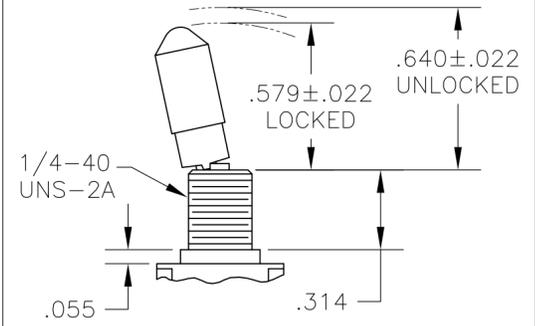
TOGGLES



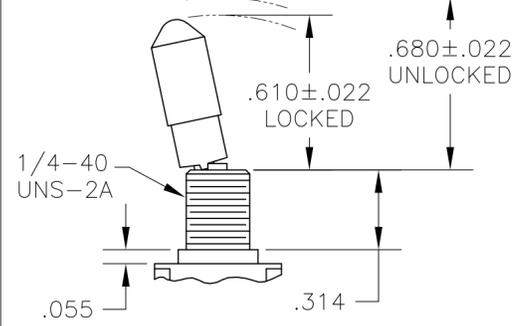
M SHORT



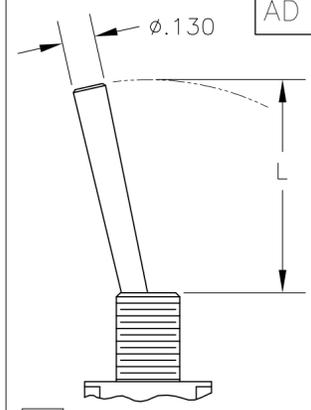
S STANDARD



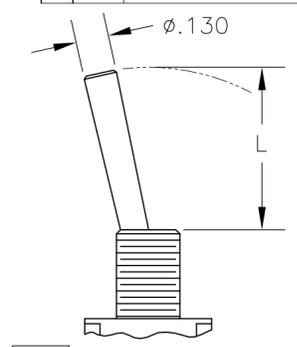
K NO BUSHING OPTION NEEDED



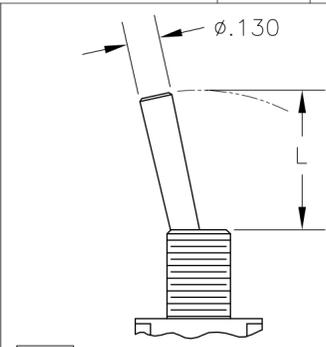
K1 NO BUSHING OPTION NEEDED



L LEVER



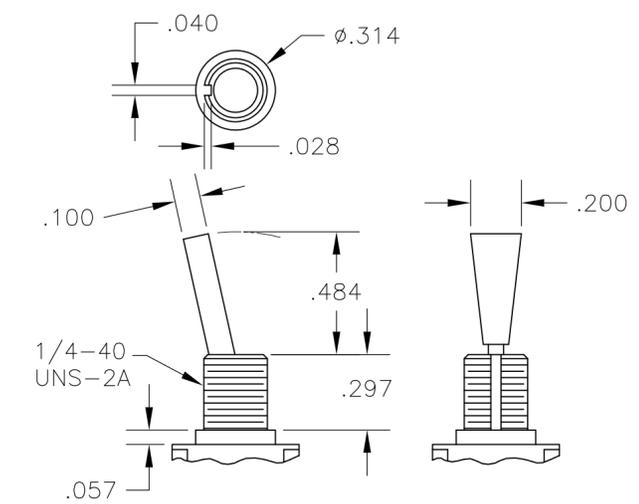
L1 LEVER



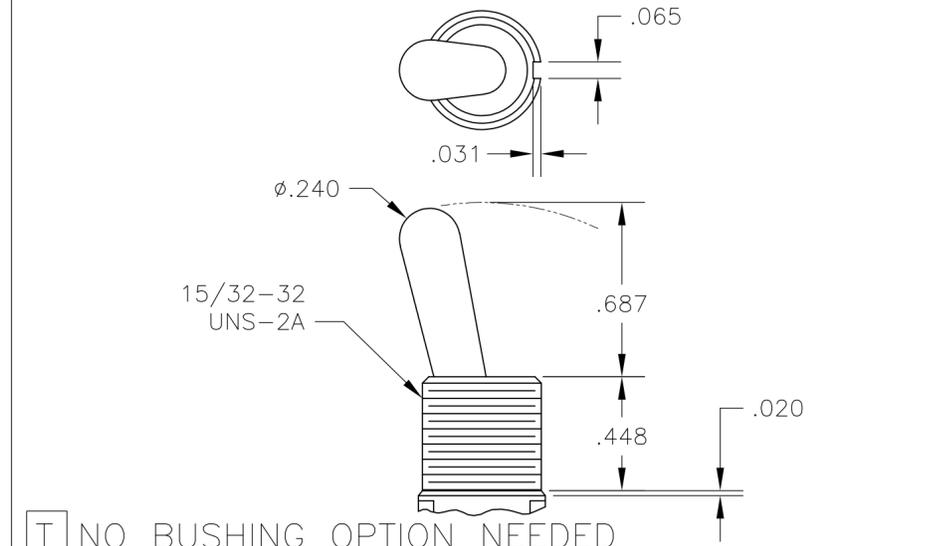
L2 LEVER

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

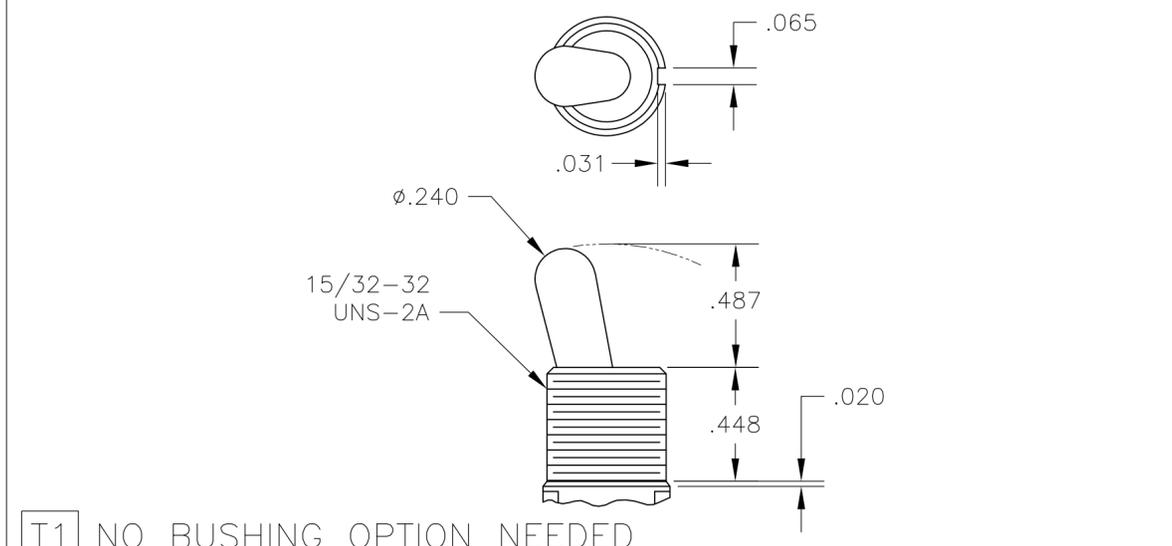
DIM L	BUSHING TYPE	DIM L	BUSHING TYPE	DIM L	BUSHING TYPE
.840	Y, H	.640	Y, H	.550	Y, H
.910	D, D9	.710	D, D9	.620	D, D9



P3 NO BUSHING OPTION NEEDED

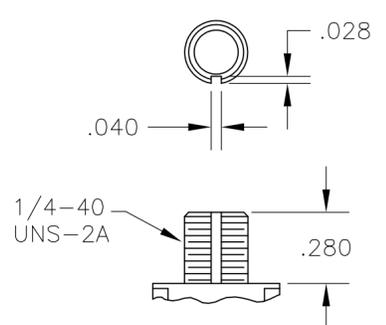


T NO BUSHING OPTION NEEDED

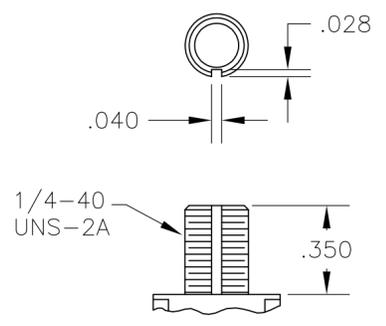


T1 NO BUSHING OPTION NEEDED

BUSHINGS

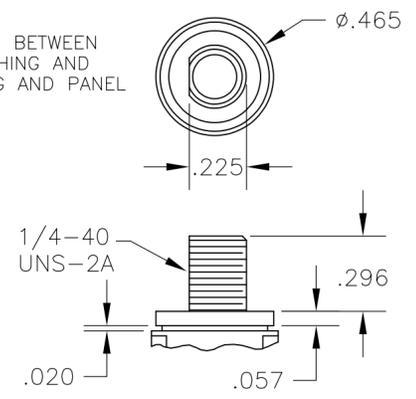


D THREADED
D9 UNTHREADED

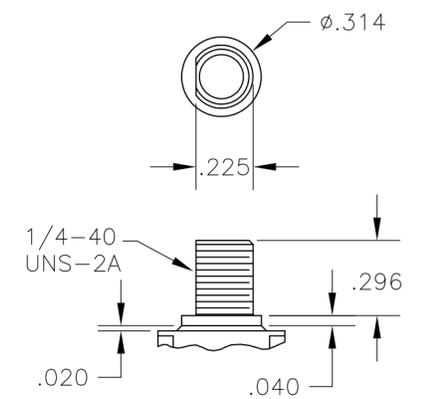


Y THREADED
Y9 UNTHREADED

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



CW THREADED SPLASHPROOF

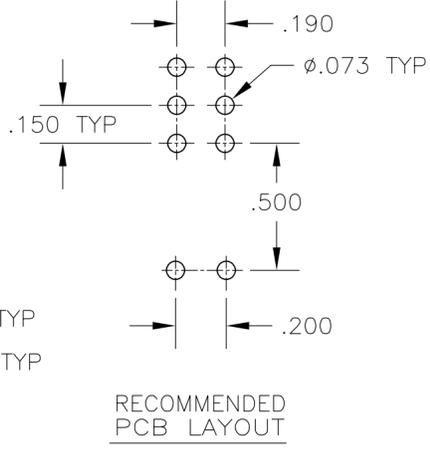
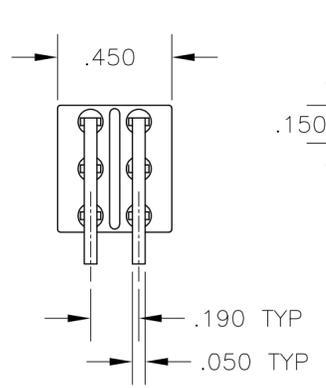
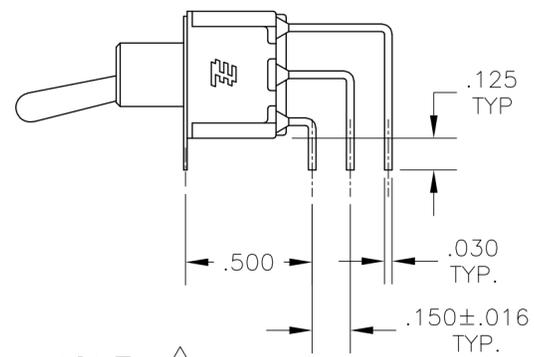
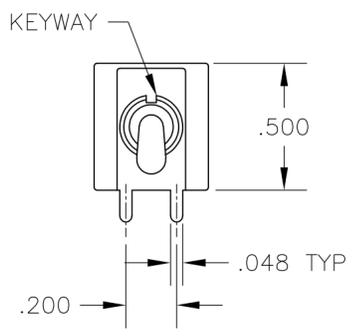


H HIGH TORQUE

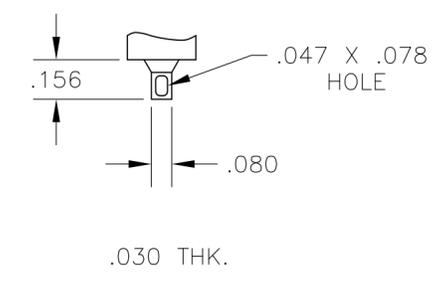
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	M. ZITTO	14APR05		TE Connectivity		
DIMENSIONS: INCHES		CHK	M. ZITTO	-		GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	P. BROUILLETTE	-		SIZE	CAGE CODE	DRAWING NO
0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .010 4 PLC ± - ANGLES ± - FINISH -		PRODUCT SPEC	-	-		A2	00779	C=1825138
MATERIAL		APPLICATION SPEC	-	-	WEIGHT	-	RESTRICTED TO	
-		SCALE	2:1	SHEET	2 of 4	REV	A4	
-		CUSTOMER DRAWING						

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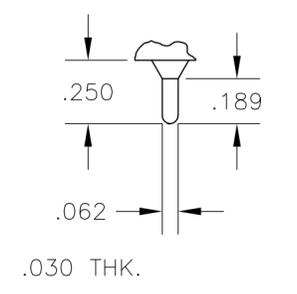
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P	LTR	DESCRIPTION	DATE	DWN	APVD			
AD	00	SEE SHEET 1	-	-	-			



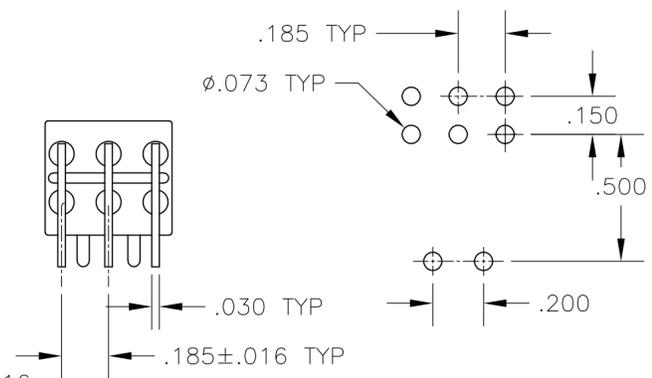
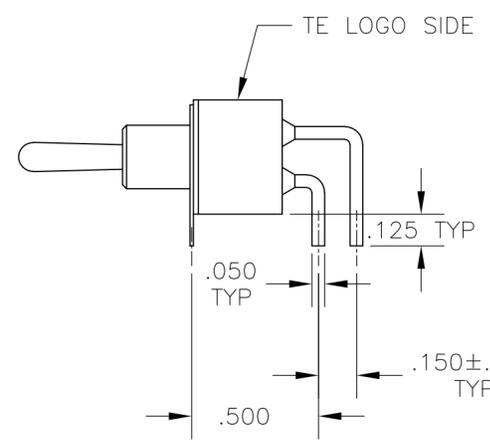
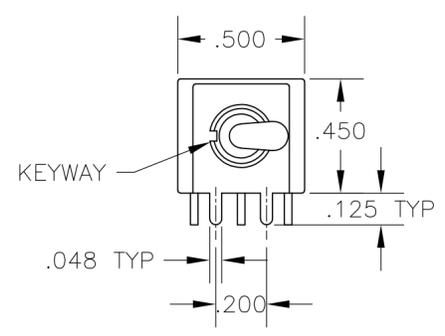
AV2 VERTICAL RIGHT ANGLE $\triangle 5$



Z WIRE LUG

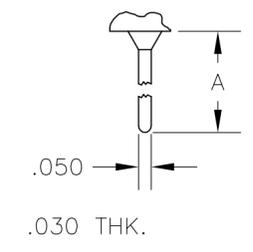


Z3 QUICK CONNECT

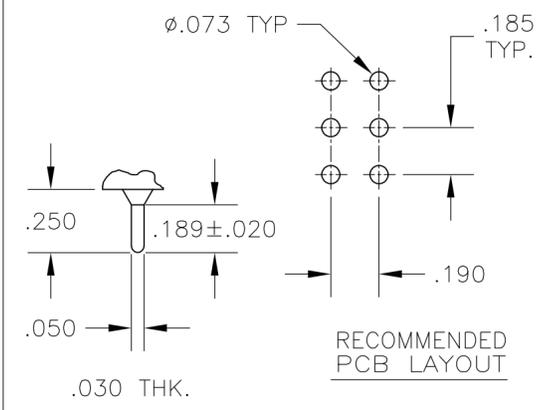


A RIGHT ANGLE $\triangle 5$

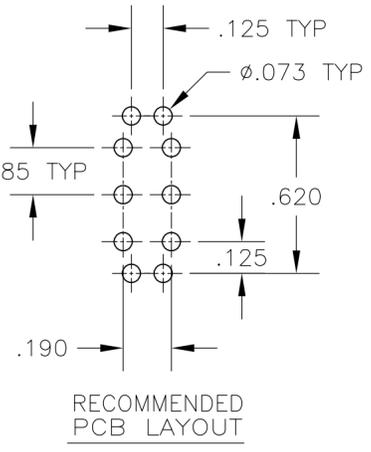
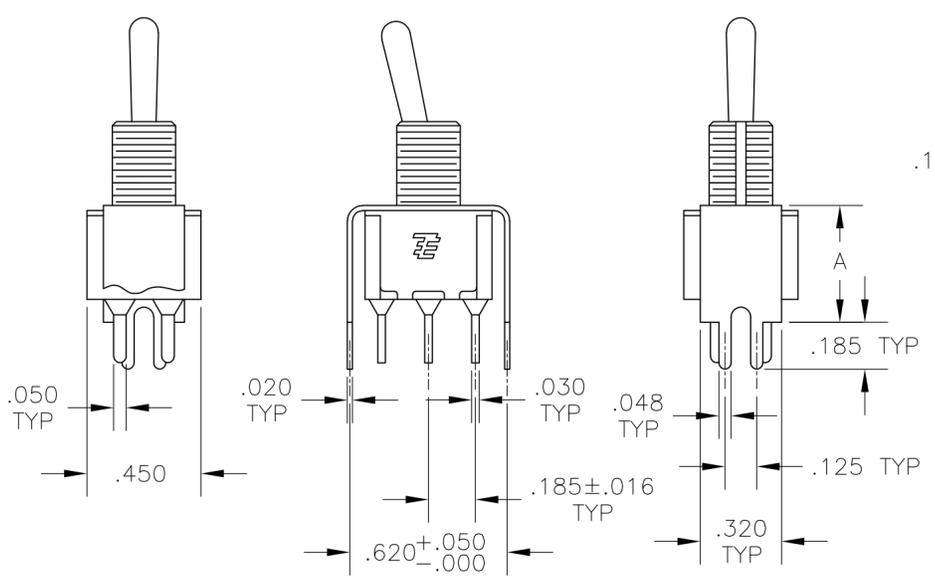
OPTION	DIM A
W	.736
W4	1.062



W **W4** WIRE WRAP

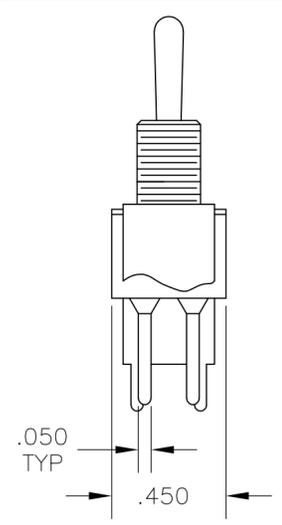


C PRINTED CIRCUIT

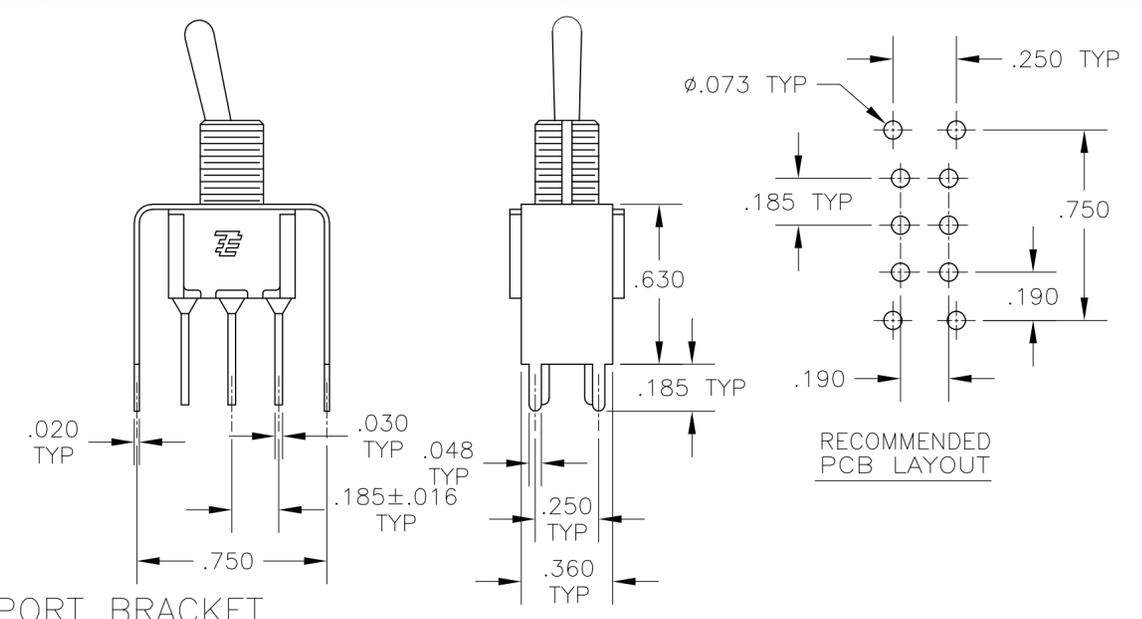


OPTION	DIM A
V30	.460
V40	.630

V30 **V40** $\triangle 5$
 VERTICAL SUPPORT BRACKET



V70
 VERTICAL SUPPORT BRACKET



RECOMMENDED PCB LAYOUT

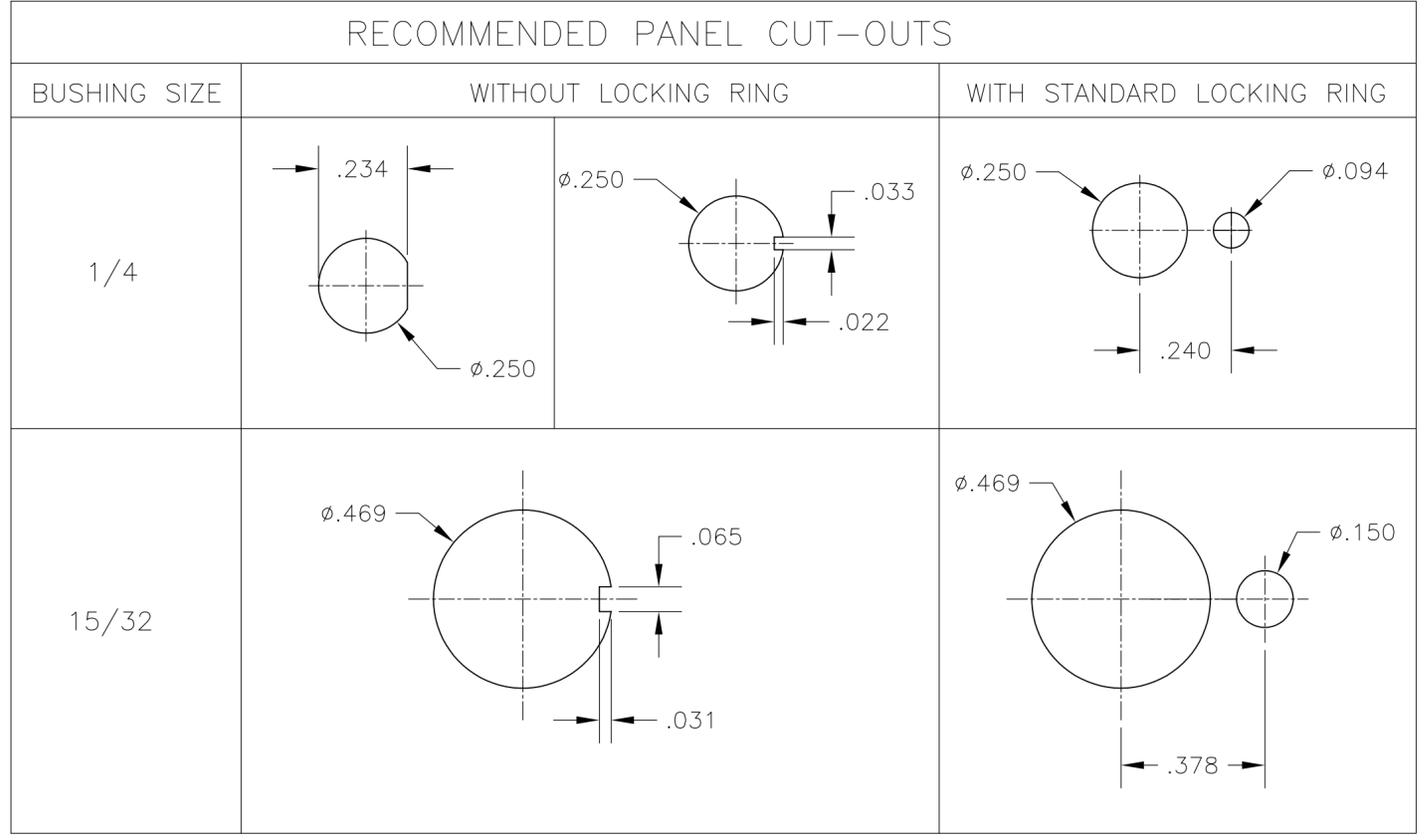
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DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN: M. ZITTO	14APR05	TE TE Connectivity
		CHK: M. ZITTO		
		APVD: P. BROUILLETTE		GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)
		PRODUCT SPEC		
		APPLICATION SPEC		SIZE: A2
MATERIAL: -	FINISH: -	WEIGHT: -	CAGE CODE: 00779	DRAWING NO: 1825138
		CUSTOMER DRAWING	SCALE: 2:1	SHEET: 3 of 4

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LOC AD	DIST 00	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	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	PRELIMINARY
A201P3V30G04	4-1825138-2	PRELIMINARY
A203MD9AQ-UL	4-1825138-3	PRELIMINARY
A201MCWCB04	4-1825138-4	PRELIMINARY
A201SCWCB04	4-1825138-5	PRELIMINARY



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	

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MATERIAL -		WEIGHT -		
FINISH -		SCALE A2 00779 C=1825138		RESTRICTED TO -
CUSTOMER DRAWING		SCALE 3:1		SHEET 4 of 4
		REV A4		

1825138