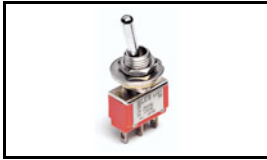


## 2-1825137-0 Product Details

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**2-1825137-0**  
(A103SYZQ04)

TE Internal Number: 2-1825137-0

[Active](#)

### Toggle Switches

[Always EU RoHS/ELV Compliant \(Statement of Compliance\)](#)

### Product Highlights:

- Gemini A Series
- Single Pole - Double Throw Configuration (Pole-Throw)
- Current Rating = 5 A
- Mount Style = Solder
- Termination Type = Wire Lugs

[View all Features](#)

### Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#)

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### Documentation & Additional Information

#### Product Drawings:

- [GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 3 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 = Wire Lugs

#### Electrical Characteristics:

- Current Rating (A) = 5

#### Termination Features:

- Seal Type = Terminal Seal (epoxy)

#### Body Features:

- Mount Style = Solder
- Bushing Style = Threaded
- Bushing Type = 1/4-40

#### Contact Features:

- Contact Plating = Silver

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

#### Industry Standards:

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

	<ul style="list-style-type: none"><li>• RoHS/ELV Compliance History = Always was RoHS compliant</li></ul> <p><b>Other:</b></p> <ul style="list-style-type: none"><li>• Brand = Alcoswitch</li></ul>
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**Corporate Information**

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[Site Map](#)

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[Knowledge Base](#)  
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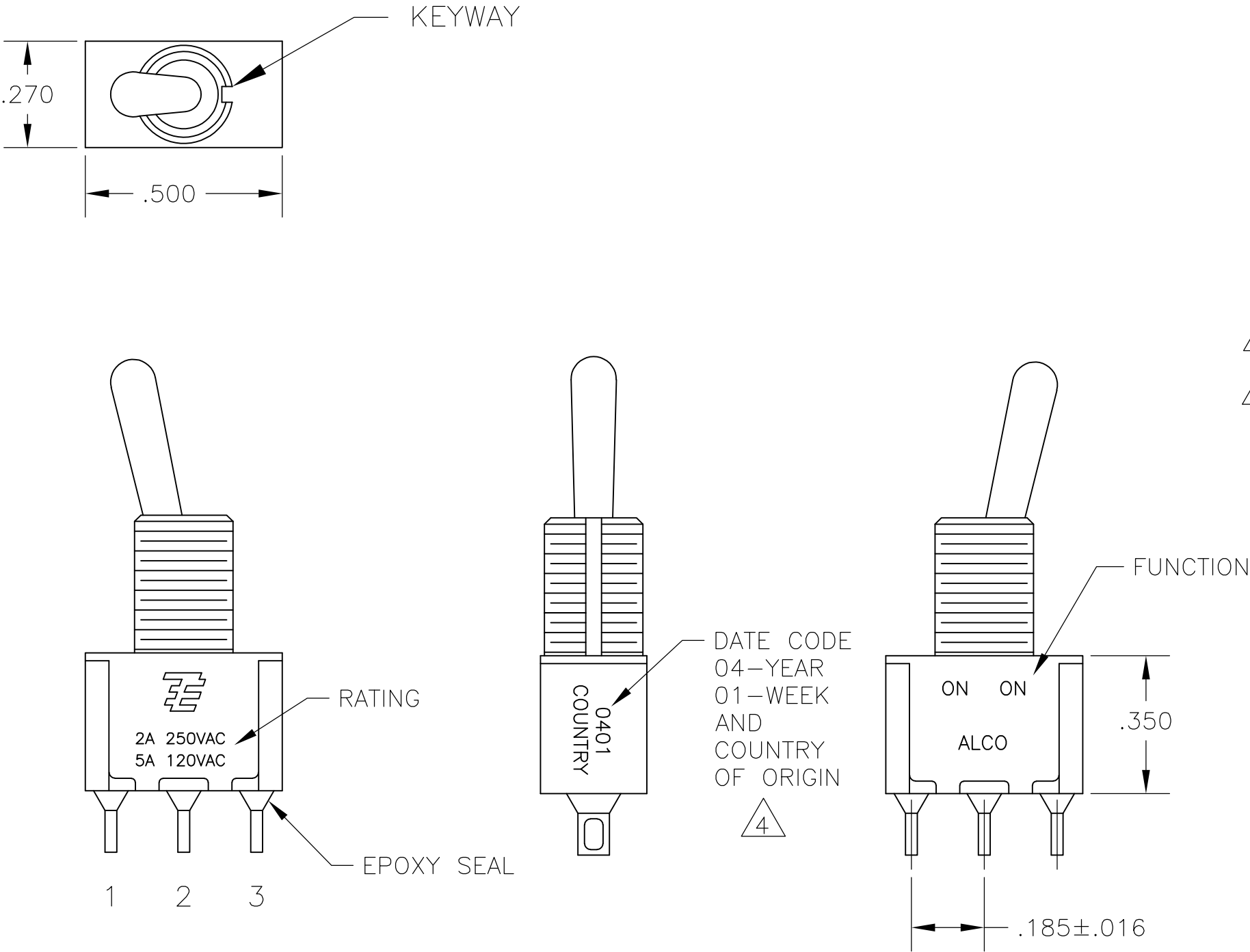
**Keep Me Informed**



LOC	DIST	REVISIONS					
AD	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			A6	REVISED PER ECO-13-000374	10JAN13	KH	PO

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.
- 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 CHART			
FUNCTION			
03	ON	OFF	ON
05	(ON)	OFF	(ON)
07	ON	OFF	(ON)
TERMINALS CONNECTED	2-3	---	1-2
None: No mechanical position Off: Mechanical position with no electrical connection (On): Momentary action			

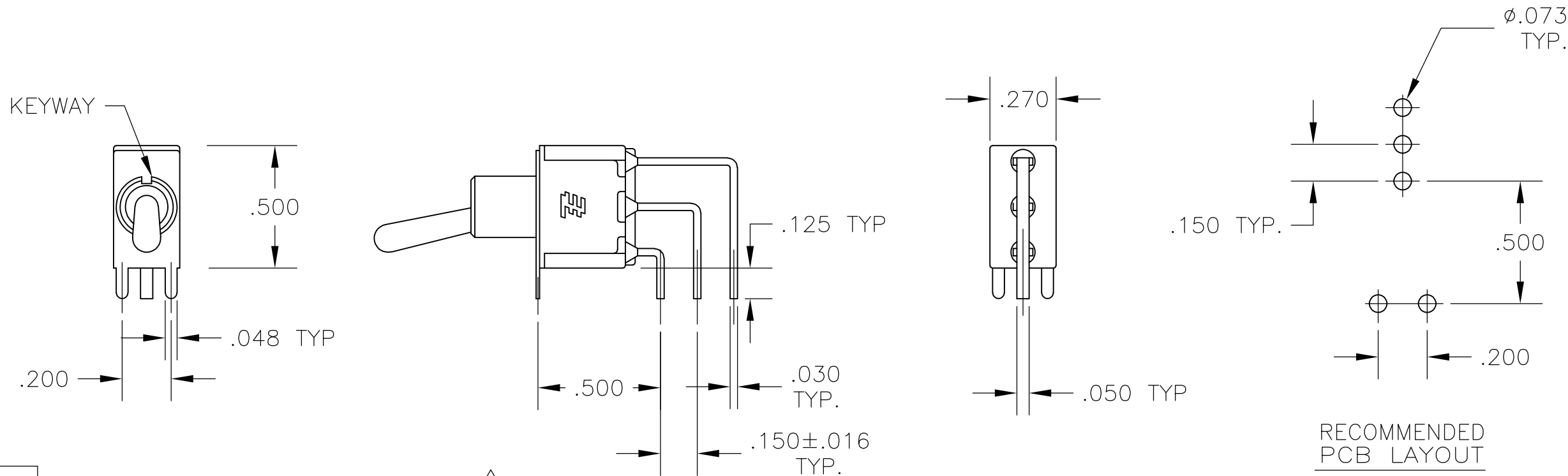
SPECIFICATIONS CHART	
RATING, B CONTACTS	.4VA MAX @20V MAX. AC OR DC
RATING, G CONTACTS—SEE NOTE 3	.4VA MAX @20V MAX. AC OR DC OR 5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
RATING, Q CONTACTS	5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
ELECTRICAL LIFE	6,000 CYCLES AT RATED 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
A1	03	K	CW	A	B	04
	05	K1	D	AV2	G	
	07	L	D9	C	Q	
EXAMPLE: A103SYCQ04		L1	H	V30		
		L2	Y	V40		
		M	Y9	W		
		P3		W4		
		S		Z		
		T		Z3		
		T1				

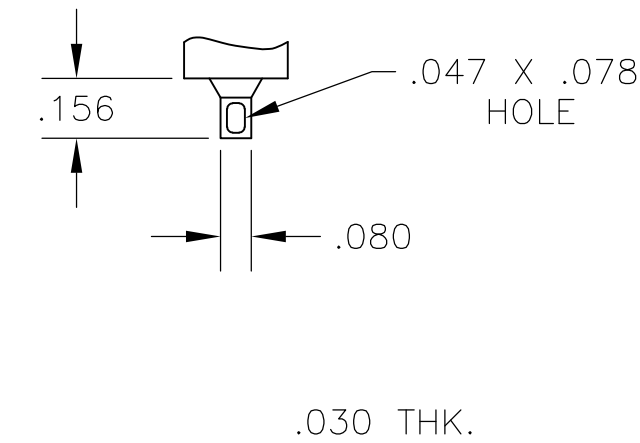
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. ZITTO	18MAY05	TE Connectivity		
DIMENSIONS: INCHES		CHK M. ZITTO	-			
	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD M. ZITTO	-	NAME GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 3 POSITION FUNCTIONS (03, 05 & 07)		
		PRODUCT SPEC	-			
		APPLICATION SPEC	-	SIZE	CAGE CODE	DRAWING NO
MATERIAL	FINISH	WEIGHT	-	A2	00779	C=1825137
		CUSTOMER DRAWING	SCALE 3:1		SHEET 1 of 4	REV A6



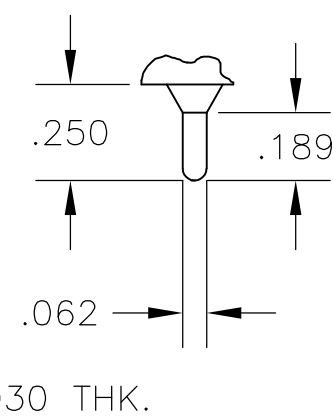
LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN APVD
AD	00	-	-	SEE SHEET 1	-	-



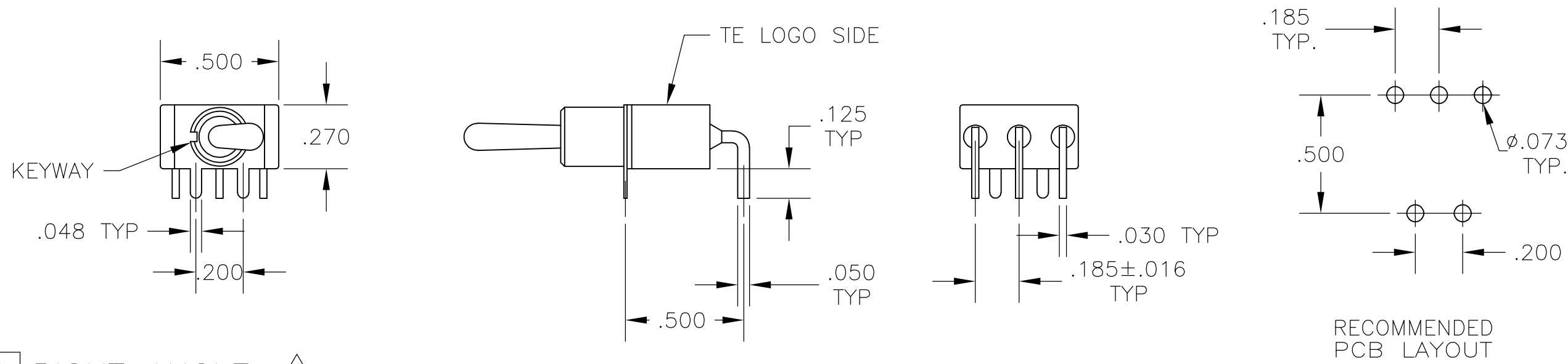
AV2 VERTICAL RIGHT ANGLE



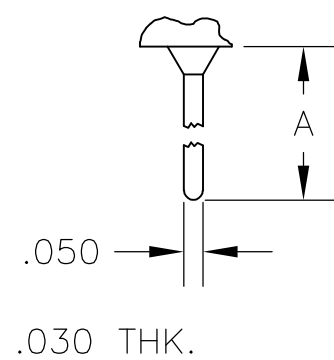
Z WIRE LUG



Z3 QUICK CONNECT

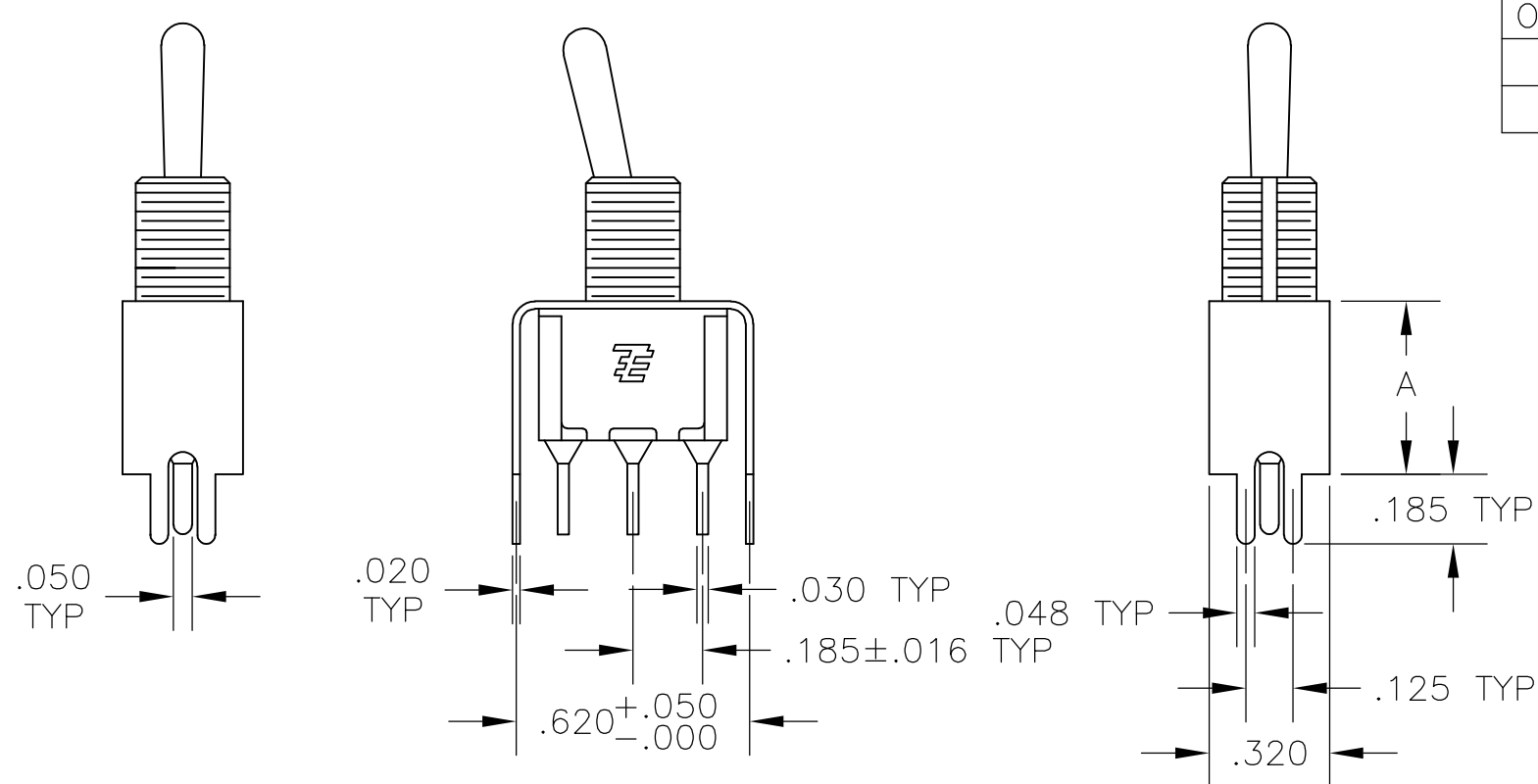


A RIGHT ANGLE

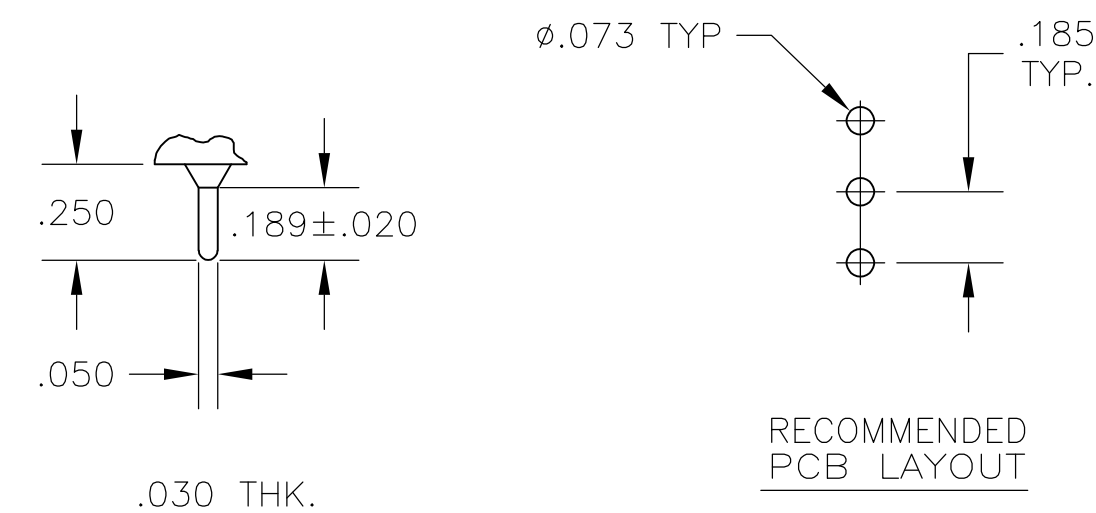
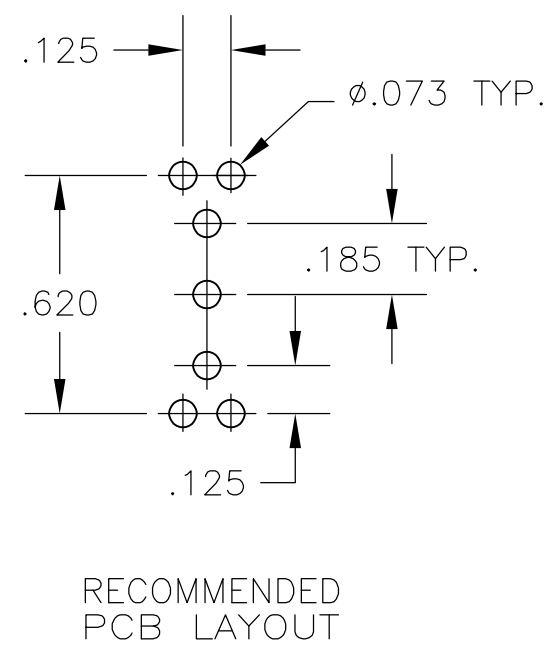


W W4 WIRE WRAP

OPTION	DIM A
W	.736
W4	1.062



V30 V40 VERTICAL SUPPORT BRACKET



C PRINTED CIRCUIT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. ZITTO	18MAY05	TE Connectivity	
DIMENSIONS: INCHES		CHK M. ZITTO	-		
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 3 POSITION FUNCTIONS (03, 05 & 07)	
		0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .010 4 PLC ± - ANGLES ± 2°		APVD M. ZITTO	
MATERIAL -		FINISH -		PRODUCT SPEC -	
		APPLICATION SPEC -		SIZE A2	
		WEIGHT -		CAGE CODE 00779	
		CUSTOMER DRAWING		DRAWING NO C=1825137	
		SCALE 2:1		SHEET 3 of 4	
				REV A6	

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

D

C

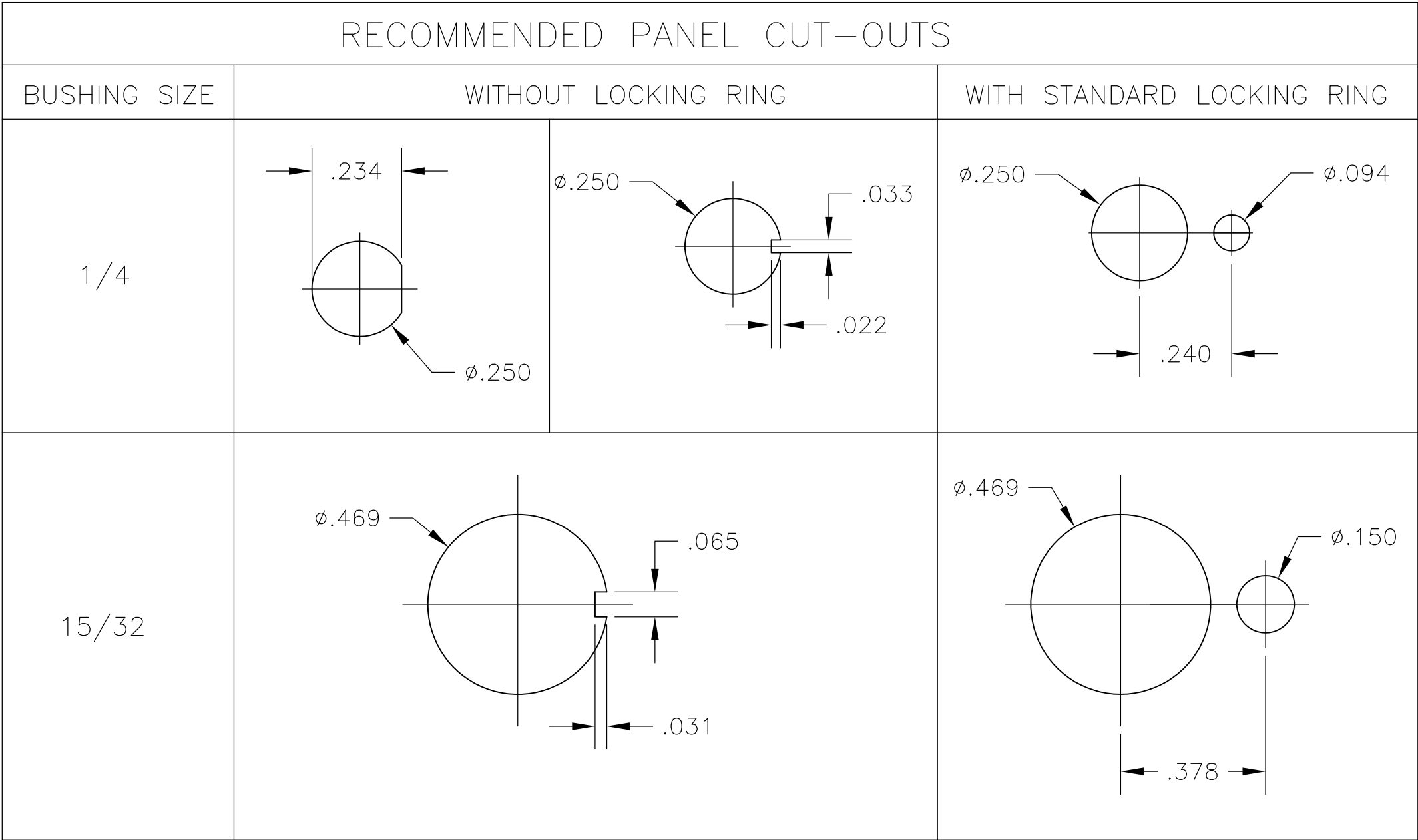
B

A

Alco P/N	P/N
A103KZQ04	1825137-1
A103MD9AB04	1825137-2
A103MD9AG04	1825137-3
A103MD9AQ04	1825137-4
A103MD9AV2B04	1825137-5
A103P3ZQ04	1825137-6
A103SD9AQ04	1825137-7
A103SD9AV2B04	1825137-8
A103SD9AV2Q04	1825137-9
A103SDCB04	1-1825137-0
A103SDCQ04	1-1825137-1
A103SDZQ04	1-1825137-2
A103SYAQ04	1-1825137-3
A103SYAV2Q04	1-1825137-4
A103SYCB04	1-1825137-5
A103SYCQ04	1-1825137-6
A103SYWB04	1-1825137-7
A103SYWQ04	1-1825137-8
A103SYZB04	1-1825137-9
A103SYZQ04	2-1825137-0
A103T1CG04	2-1825137-1
A103T1ZQ04	2-1825137-2
A103TZQ04	2-1825137-3
A105MD9AB04	2-1825137-4
A105MD9AQ04	2-1825137-5
A105MYV30Q04	2-1825137-6
A105P3CG04	2-1825137-7
A105P3CQ04	2-1825137-8
A105P3ZQ04	2-1825137-9
A103MDAB04	3-1825137-0
A105SD9AB04	3-1825137-1
A105SD9AV2Q04	3-1825137-2
A105SD9V30B04	3-1825137-3
A105SYAB04	3-1825137-4
A105SYAV2B04	3-1825137-5
A105SYCB04	3-1825137-6
A105SYCQ04	3-1825137-7
A105SYZB04	3-1825137-8
A105SYZQ04	3-1825137-9
A105T1ZB04	4-1825137-0
A105T1ZQ04	4-1825137-1
A105TZQ04	4-1825137-2
<del>A107KAV2Q04</del>	<del>4-1825137-3</del>
A107KZB04	4-1825137-4
A107MD9AV2B04	4-1825137-5
A107MD9CQ04	4-1825137-6
A107MD9V30Q04	4-1825137-7
A107P3ZQ04	4-1825137-8
A107SYAQ04	4-1825137-9
A107SYCB04	5-1825137-0
A107SYCQ04	5-1825137-1
A107SYZQ04	5-1825137-2
A107TZB04	5-1825137-3
A105MD9AV2B	5-1825137-4
A103MD9V30B04	5-1825137-5
A103MCWCB04	5-1825137-6
A103SCWCB04	5-1825137-7

OBSOLETE

PRELIMINARY  
PRELIMINARY  
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	

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 -

FINISH -

DWN M. ZITTO 18MAY05  
CHK M. ZITTO  
APVD M. ZITTO  
PRODUCT SPEC  
APPLICATION SPEC  
WEIGHT -  
CUSTOMER DRAWING

TE Connectivity

GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 3 POSITION FUNCTIONS (03, 05 & 07)

SIZE A2  
CAGE CODE 00779  
DRAWING NO C=1825137  
SCALE 3:1  
SHEET 4 of 4  
REV A6

RESTRICTED TO -

1825137

B

A