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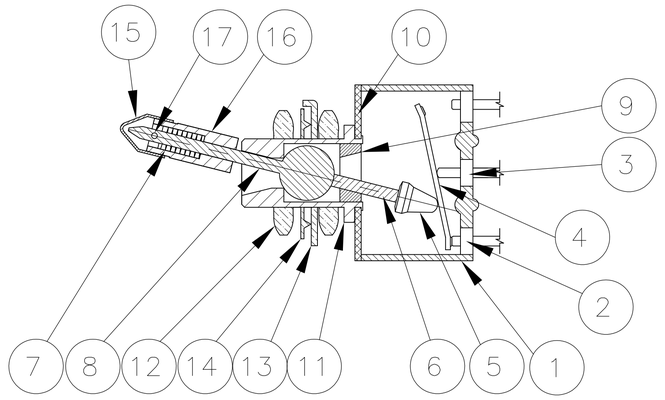
LOC	DIST
AD	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	D3	REVISED PER ECO-11-005556	07MAR11	PSK	MW

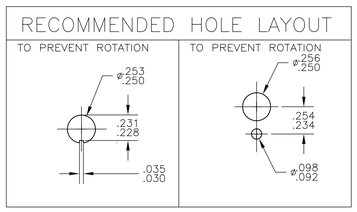
	Materials		
No.	Component name	Base material	Finish
1	Housing	High Temp., UL 94V-0, green	
2	End terminal	silver clad copper alloy	5 microinches min. gold
3	Center terminal	copper alloy	5 microinches min. gold
4	Rocker contact	silver clad copper alloy	5 microinches min. gold
5	Actuator	Phenol resin, UL94 HB, black	
6	Plunger	stainless steel	
7	Spring	music wire	
8	Lever	brass	chrome or nickel
9	Retainer	Polyamide, UL94 HB, black	
10	Frame	cold rolled steel	zinc or nickel
11	Bushing	brass	100 microinches min. nickel over 10 microinches min. copper
12	Mounting nuts (2)	brass	200 microinches min. bright nickel
13	Locating ring	cold rolled steel	zinc or nickel
14	Internal tooth lockwasher	steel	zinc or nickel
15	Upper toggle cap	Aluminum	matte
16	Lower toggle cap	Aluminum	matte
17	Retaining pin	steel	

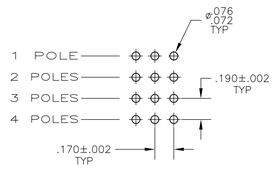


NOT TO SCALE

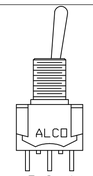
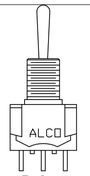
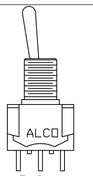
Specifications-see note 3				
Current rating UL & CSA	6A @ 125 VAC (resistive)			
	3A @ 250 VAC (resistive)			
	4A @ 28 VDC (resistive)			
Termination resistance	20 milliohms max @ 2-4 VDC, 1A			
Insulation resistance	1,000 megohms min.			
Withstanding voltage	1,000 VAC			
Travel	24 +/-6 degrees			
Actuation force	.05 to 1.5 kgf			
Operating temperature	-20C to +85C			
Storage temperature	-40C to +85C			
Contact timing	break before make			
Terminal seal	epoxy or insert molded			
Durability	Parameter	2 Position	3 Position	Momentary
	mechanical (no load)	150,000	100,000	80,000
	250 VAC (3A resistive)	80,000	60,000	60,000
	125 VAC (6A resistive)	80,000	60,000	60,000
	28 VDC (4A resistive)	60,000	50,000	40,000

RECOMMENDED HOLE LAYOUT





PC BOARD LAYOUT
PC TERMINAL ONLY

	Part Number	Alco Model	Poles	Throws	Function	Terminal	 3 2 1 6 5 4 9 8 7 12 11 10	 3 2 1 6 5 4 9 8 7 12 11 10	 3 2 1 6 5 4 9 8 7 12 11 10	Comments
⚠8	4-1437559-5	MTL406PA	2	3	ON ON ON	Wire lug	5-6, 11-12	5-3, 11-9	5-1, 11-7	note 7
	4-1437559-4		4	2	ON ON	Wire lug	2-3, 5-6, 8-9, 11-12	---	2-1, 5-4, 8-7, 11-10	
	4-1437559-3		3	2	ON OFF ON	Wire lug	2-3, 5-6, 8-9	Off	2-1, 5-4, 8-7	
	4-1437559-2		3	2	ON ON	Wire lug	2-3, 5-6, 8-9	---	2-1, 5-4, 8-7	
	4-1437559-1		2	2	(ON) OFF (ON)	Wire lug	2-3, 5-6	Off	2-1, 5-4	
⚠8	4-1437559-0	MTL206PA	1	3	ON ON ON	Wire lug	5-6	5-3	5-1	note 6
	3-1437559-9		2	2	ON OFF ON	Wire lug	2-3, 5-6	Off	2-1, 5-4	
⚠8	3-1437559-8	MTL206NPC	2	2	ON ON	PC	2-3, 5-6	---	2-1, 5-4	
	3-1437559-7		2	2	ON ON	Wire lug	2-3, 5-6	---	2-1, 5-4	
	3-1437559-6	MTL106EUL	1	2	ON OFF ON	Wire lug	2-3	Off	2-1	
	3-1437559-5		1	2	ON OFF ON	Wire lug	2-3	Off	2-1	
	3-1437559-4		1	2	ON ON	Wire lug	2-3	---	2-1	

NOTES:
1. TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE SWITCHES.
2. EACH SWITCH SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
   (2) 1/4-40 UNS-2B HEX NUTS
   (1) INTERNAL TOOTH LOCKWASHER
   (1) LOCATING RING

5. WIRE LUG CONTACTS WILL ACCEPT 2 #20 AWG SOLID OR STRANDED WIRES.
6. CUSTOMER INSTALLED EXTERNAL JUMPER BETWEEN TERMINALS 2 AND 4 REQUIRED FOR 1 POLE 3 THROW FUNCTION.
7. CUSTOMER INSTALLED EXTERNAL JUMPERS BETWEEN TERMINALS 2 AND 4 AS WELL AS 8 AND 10 REQUIRED FOR 2 POLE 3 THROW FUNCTION.

⚠8 OBSOLETE

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .005
4 PLC ± -
ANGLES ± -

MATERIAL -
FINISH -

DWN	M.BINNER	29DEC03
CHK	M.ZITTO	29DEC03
APVD	M.ZITTO	29DEC03
PRODUCT SPEC	-	
APPLICATION SPEC	-	
WEIGHT	-	

TE Connectivity

NAME: TOGGLE SWITCH,MTL SERIES VERTICAL MOUNT -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-3-1437559-7	-

CUSTOMER DRAWING | SCALE 1:1 | SHEET 1 OF 3 | REV D3

4805 (3/11)

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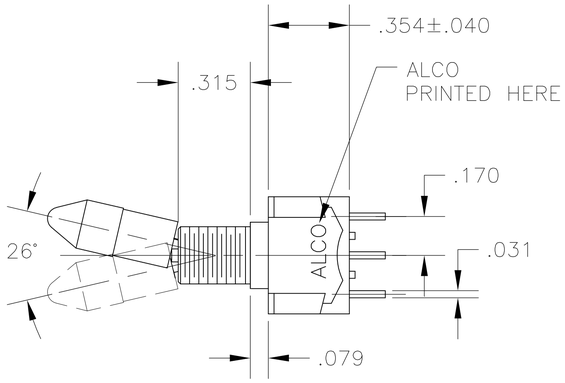
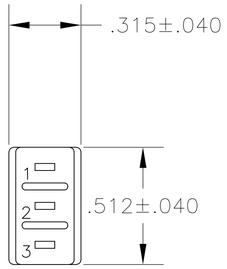
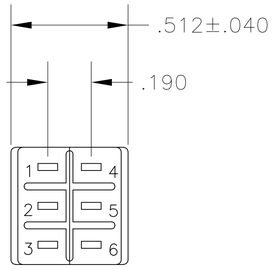
LOC	DIST
AD	00

REVISIONS

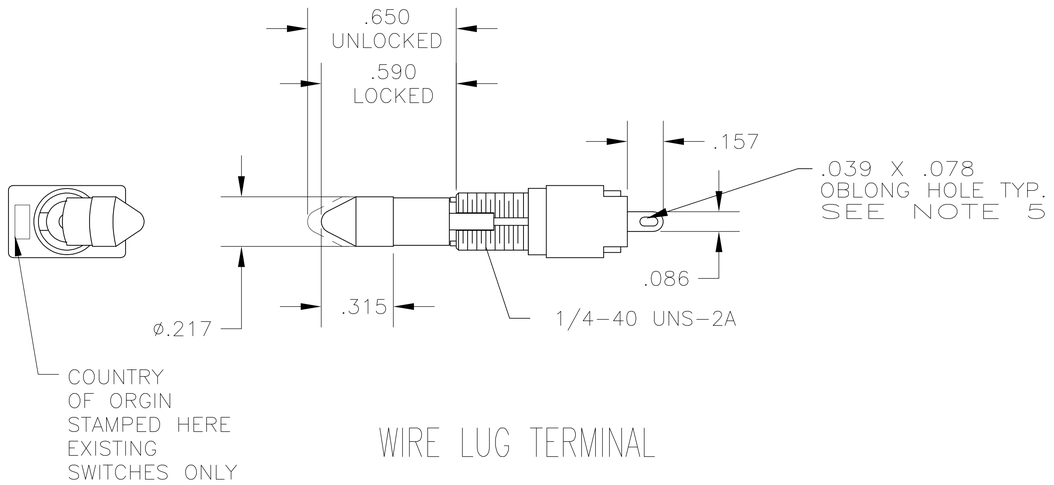
P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	—	—



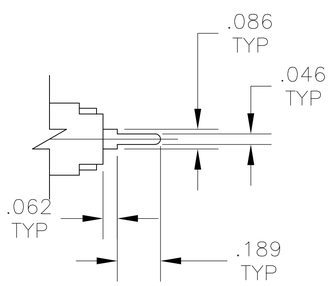




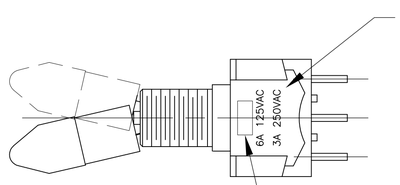
MTL–106 MTL–206



WIRE LUG TERMINAL



PC TERMINAL



RATING
BLACK INK STAMP OR
STAMPED INTO METAL
FRAME HERE

COUNTRY OF ORGIN
BLACK INK STAMPED OR
STAMPED INTO METAL FRAME HERE
NEWLY TOOLED SWITCHES ONLY

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± .005
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN M.BINNER 29DEC03
CHK M.ZITTO 29DEC03
APVD M.ZITTO 29DEC03
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

TE Connectivity

NAME TOGGLE SWITCH,MTL SERIES
VERTICAL MOUNT
–

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1437559-7	—

CUSTOMER DRAWING SCALE 1:1 SHEET 2 OF 3 REV D3

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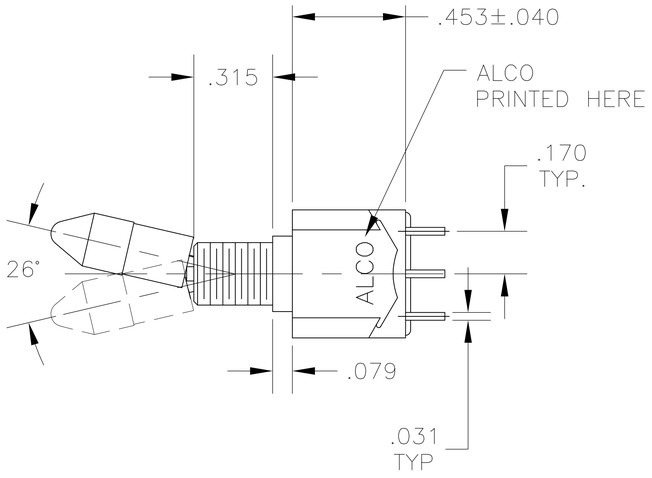
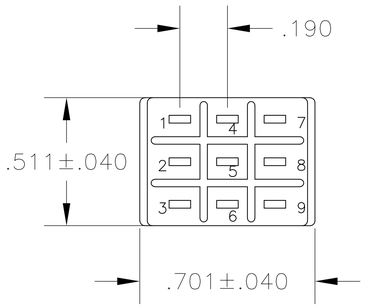
LOC	DIST
AD	00

REVISIONS

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





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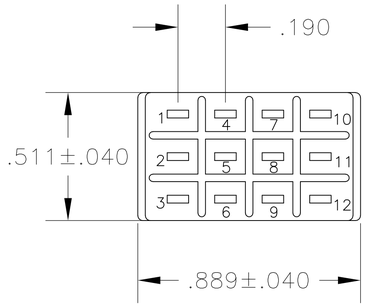
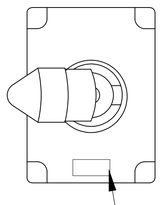
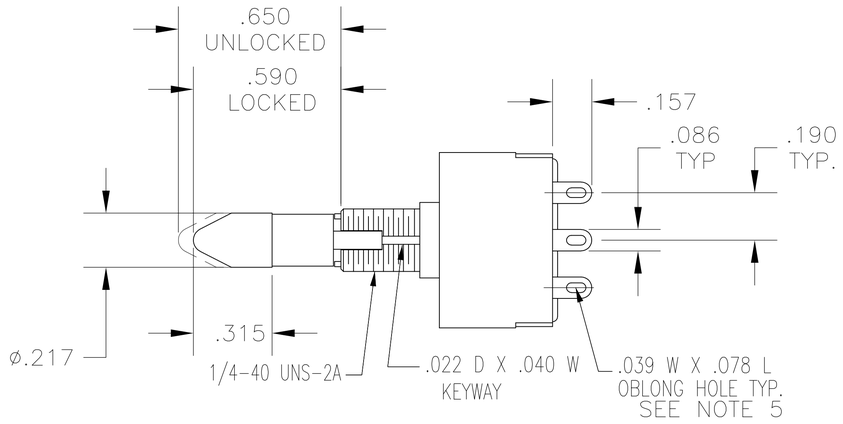


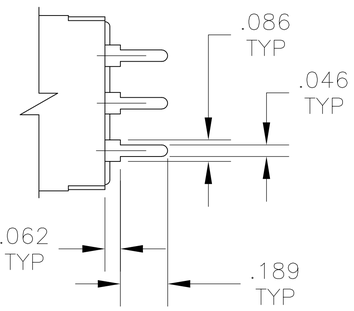
MTL-406



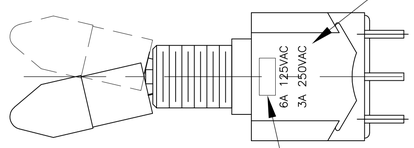
COUNTRY
OF ORGIN
STAMPED HERE
EXISTING
SWITCHES ONLY



WIRE LUG TERMINAL



PC TERMINAL



RATING
BLACK INK STAMP OR
STAMPED INTO METAL
FRAME
THIS SIDE

COUNTRY OF ORGIN
BLACK INK STAMPED OR
STAMPED INTO METAL FRAME HERE
NEWLY TOOLED SWITCHES ONLY

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN M.BINNER 29DEC03	TE Connectivity	
DIMENSIONS: INCHES	CHK M.ZITTO 29DEC03	NAME TOGGLE SWITCH,MTL SERIES VERTICAL MOUNT -	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .005 4 PLC ± - ANGLES ± -	APVD M.ZITTO 29DEC03	SIZE A1	CAGE CODE 00779
MATERIAL -	FINISH -	PRODUCT SPEC -	DRAWING NO C-1437559-7
		APPLICATION SPEC -	RESTRICTED TO -
		WEIGHT -	SCALE 1:1 SHEET 3 OF 3 REV D3
		CUSTOMER DRAWING	

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А