



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



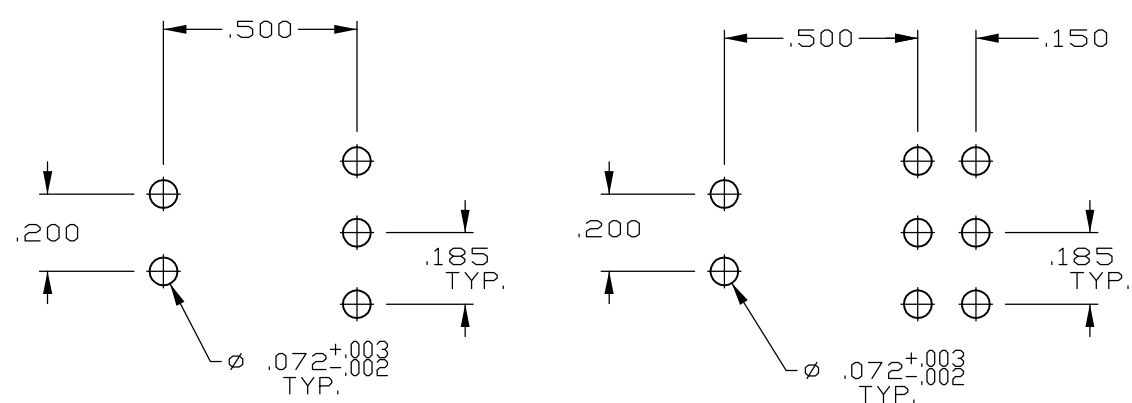
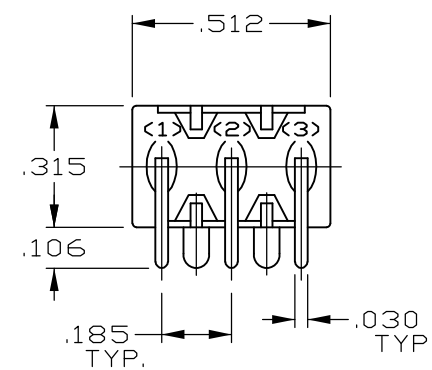
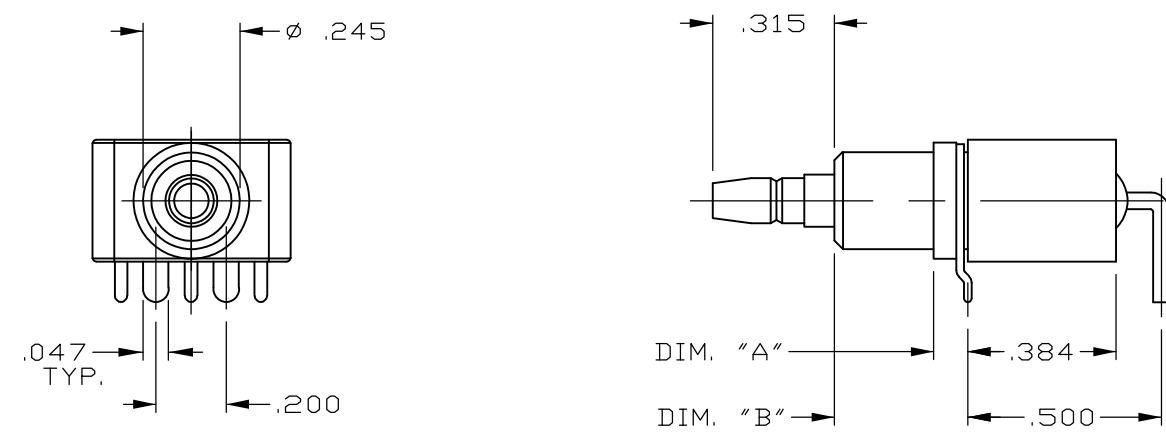
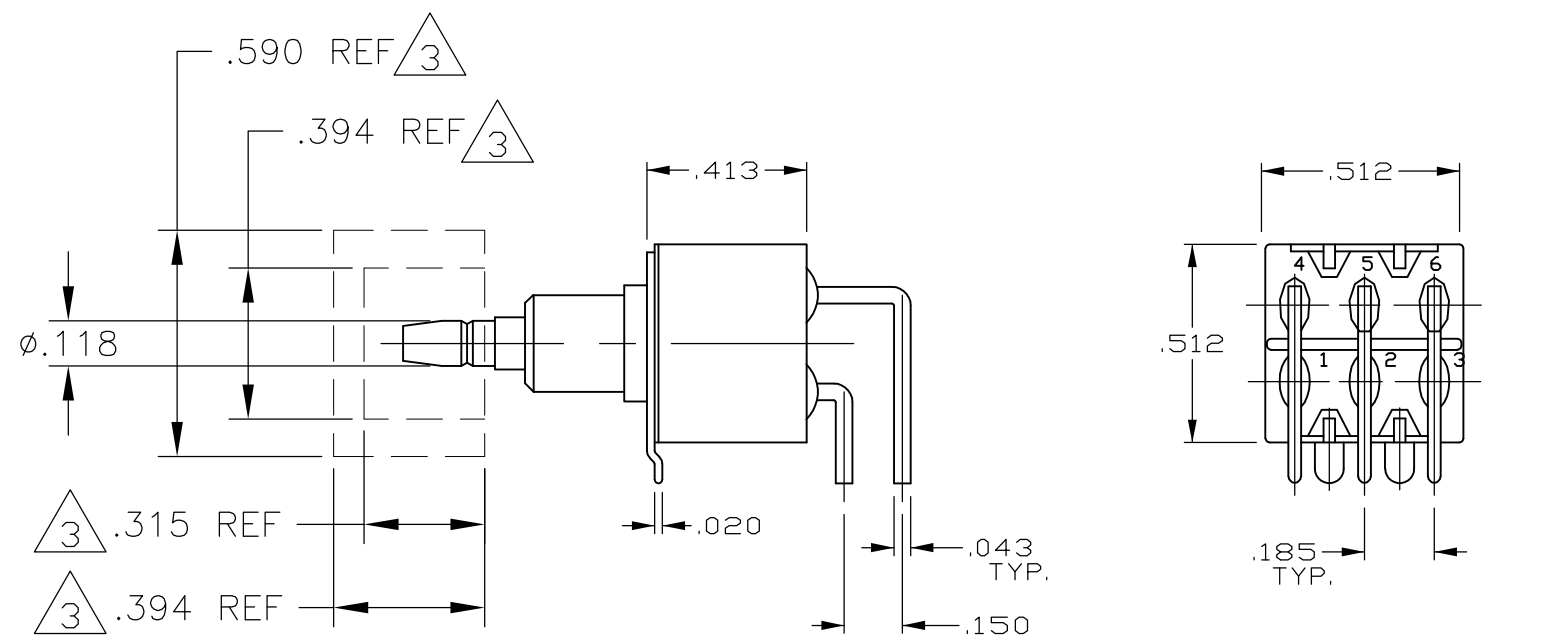
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RECOMMENDED HOLE LAYOUT
TOLERANCE $\pm .002$ UNLESS
OTHERWISE NOTED

1. Terminal numbers are for reference only and do not appear on switches.
2. All materials and finishes shall comply with EU Directive 2002/95/EC of 27Jan2003 (RoHS).
3. Switch does not include plastic cap. Dimensions shown describe Alcoswitch cap C22* and C23* found on drawings 1825068 & 1825069 and sold separately.

Specifications	
Rating	3A @ 125VAC, resistive load
Initial contact resistance	10 milliohms max @ 1A, 2-4 VDC
Insulation resistance	1,000 megohms min. @ 500VDC
Dielectric withstanding voltage	1,000 VRMS at sea level
Durability	50,000 cycles
Operating Force	MPS103DRA04 = 400 +/-200 grams
	MPS103FRA04 = 300 +/-100 grams
	MPS203NRA04 = 500 +300/-200 grams
	MPS203RRA04 = 500 +200/-100 grams
Travel	momentary = .039
	push on/push off = .098
Operating temperature	-15C to +70C
Storage temperature	-15C to +70C

Materials		
Component name	Base material	Finish
Case	Epoxy resin, UL94 V-0, black	
Frame	stainless steel	
Actuator	Copper alloy	Nickel
Fixed contact	Copper alloy	Silver
Moving contact	Phosphor bronze, silver clad	
Terminals	Copper alloy	Silver
Support bracket	Brass	Tin

Tyco P/N	Alco P/N	Poles	Throws	Dim "A"	Dim "B"	Function		Connected terminals	
						—	—	—	—
1825400-1	MPS103DRA04	1	2	.108	.423	On	On	3-2	3-1
1825400-2	MPS103FRA04	1	2	.074	.364	On	Mom	3-2	3-1
1825400-3	MPS203NRA04	2	2	.108	.423	On	On	3-2, 6-5	3-1, 6-4
1825400-4	MPS203RRA04	2	2	.074	.364	On	Mom	3-2, 6-5	3-1, 6-4

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. BROWN		09JUN2006		Tyco Electronics Corporation	
		CHK M. ZIITO		09JUN2006		Harrisburg, Pa 17105-3608	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. ZIITO		NAME	
		0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .010 4 PLC ± - ANGLES ± 1°		PRODUCT SPEC —		PUSH BUTTON, SNAP ACTION SWITCH (MPS 103*RA, MPS 203*RA) SERIES	
MATERIAL		FINISH		APPLICATION SPEC —		RESTRICTED TO	
SEE CHART		SEE CHART		WEIGHT —		SIZE A2	
				CAGE CODE 00779		DRAWING NO C-1825400	
				CUSTOMER DRAWING		SCALE 2:1	
						SHEET 1 OF 1	
						REV A1	