



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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Pushbutton Switches, .120 Actuator, Straight

MATERIAL SPECIFICATIONS:

ContactsGold plate
Case MaterialPolyester
Actuator MaterialPolyester, black
Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance50 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms @ 500 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuator Travel......050" (1.27)
Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

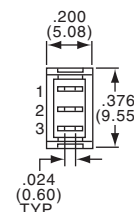
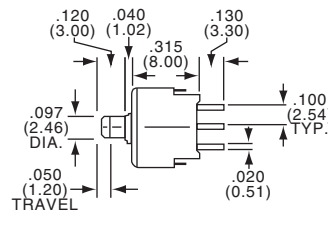
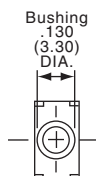
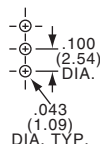
D

APA Series

SPST/SPDT



APA1BGPC



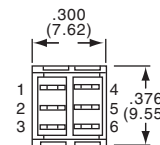
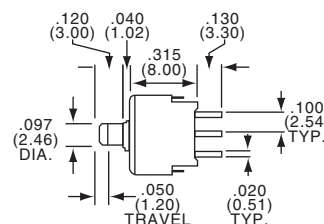
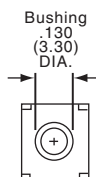
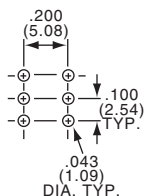
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-2	APA1BGPC	SPST	N.C. Momentary	1-3	(—)
1437567-3	APA1CGPC	SPST	N.O. Momentary	—	(1-3)
1437567-5	APA1FGPC	SPDT	Momentary	2-3	(2-1)

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2MGPC



Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1437567-7	APA2MGPC	DPST	N.O. Momentary	—	(1-3, 4-6)
1437567-9	APA2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

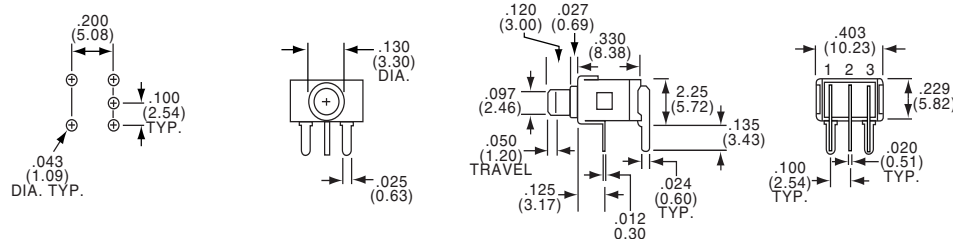
Note: No center terminals on "L" or "M" action switches.

Pushbutton Switches, .120 Actuator, Right Angle

SPST/SPDT



APA1FGRA



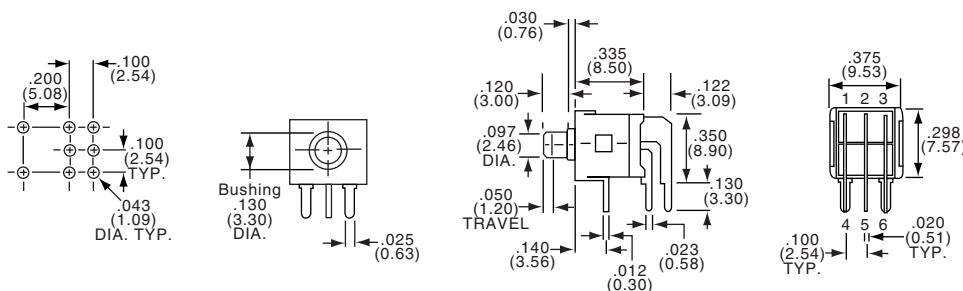
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA1BGRA	SPST	N.C. Momentary	1-3	(—)
1437567-4	APA1CGRA	SPST	N.O. Momentary	—	(1-3)
1437567-6	APA1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2RGRA



Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-8	APA2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
1-1437567-0	APA2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminals on "M" action switches.

Pushbutton Switches, .157 Actuator, Vertical or Right Angle

MATERIAL SPECIFICATIONS:

ContactsGold plate
Case MaterialPolyester
Actuator MaterialPolyester, black
Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

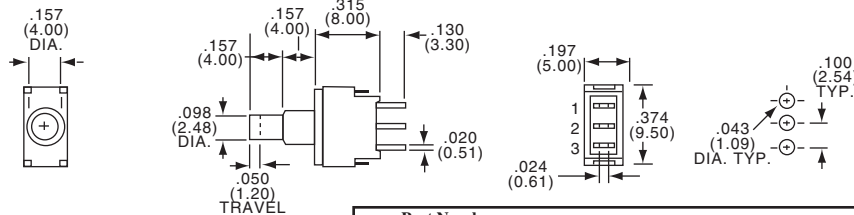
Contact Rating0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance50 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms @ 500 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuator Travel.....0.050" (1.27)
Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

SPST/SPDT



APB1BGPC



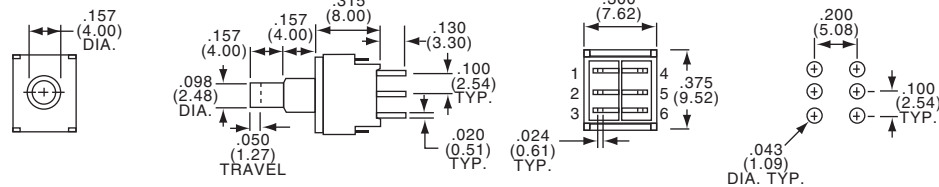
Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
1-1437567-1	APB1BGPC	SPST	N.C. Momentary	1-3	(—)
1-1437567-2	APB1CGPC	SPST	N.O. Momentary	—	(1-3)
1-1437567-4	APB1FGPC	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



APB2RGPC



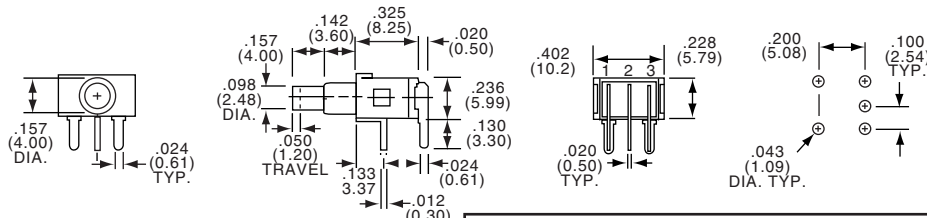
Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
—	APB2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1-1437567-7	APB2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "L" action switches.

SPST/SPDT



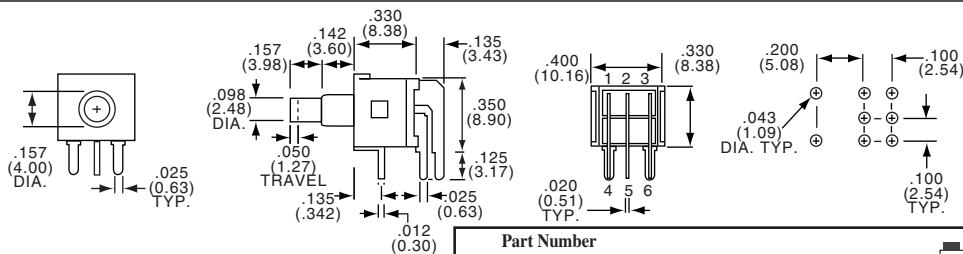
APB1FGRA



Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
—	APB1BGRA	SPST	N.C. Momentary	1-3	(—)
1-1437567-3	APB1CGRA	SPST	N.O. Momentary	—	(1-3)
1-1437567-5	APB1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
1-1437567-6	APB2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
	APB2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "M" action switches.

Pushbutton Switches, Process Sealed, .157 Actuator, Straight, Retention Terminal

MATERIAL SPECIFICATIONS:

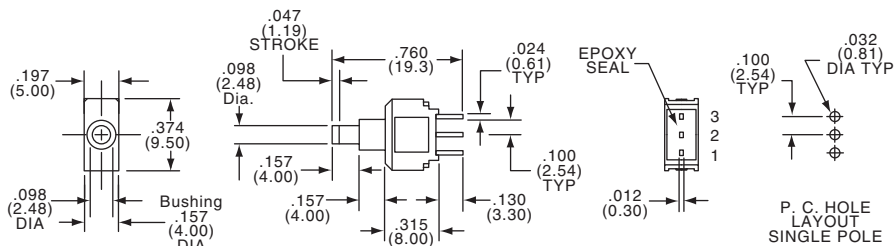
Contacts	Gold plated
Case Material	Polyester
Actuator Material	Polyester, black
Terminals/Fixed Contacts.....	Copper alloy
Terminal Seal	Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating	0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance	50 Milliohms max.
Insulation Resistance	500 Megohms @ 250 VDC min.
Dielectric Strength	500 Volts RMS @ sea level
Actuator Travel	0.047" (1.19)
Life Expectancy	Up to 10,000 Cycles

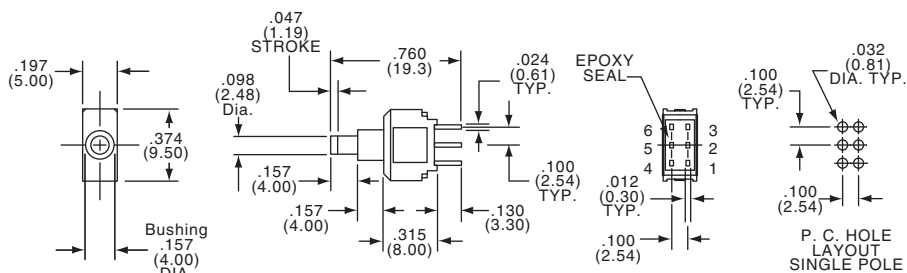


APBE1FGPC

Part Number		Type			Contact Type
Tyco Electronics	Alcoswitch	SPDT	On	(On)	Gold
1-1437567-8			Terminals Connected: 2-3	(2-1)	
(On) indicates momentary position.					

DPDT

Extra compact double pole saves PCB real estate.



APBE2RGPC

Part Number		Type			Contact Type
Tyco Electronics	Alcoswitch	DPDT	On	(On)	Gold
2-1437567-0	APBE2RGPC Terminals Connected: (On) indicates momentary position.		2-3 & 5-6	(2-1 & 5-4)	

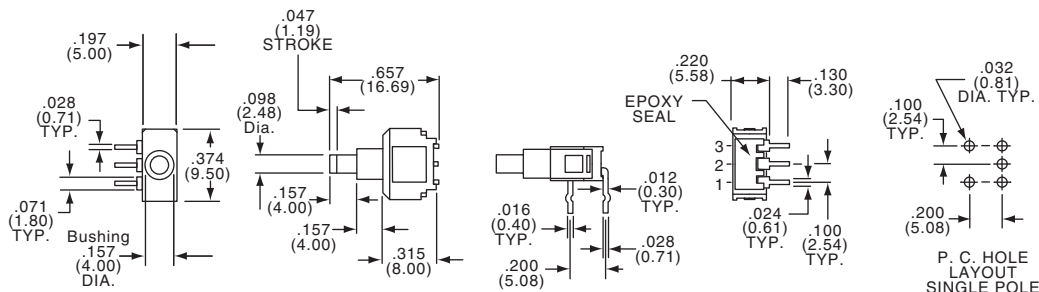
Pushbutton Switches, Process Sealed, .157 Actuator, Retention Terminal, Right Angle

SEE PAGE D19 FOR PRODUCT SPECIFICATIONS.

SPDT



APBE1FGRA



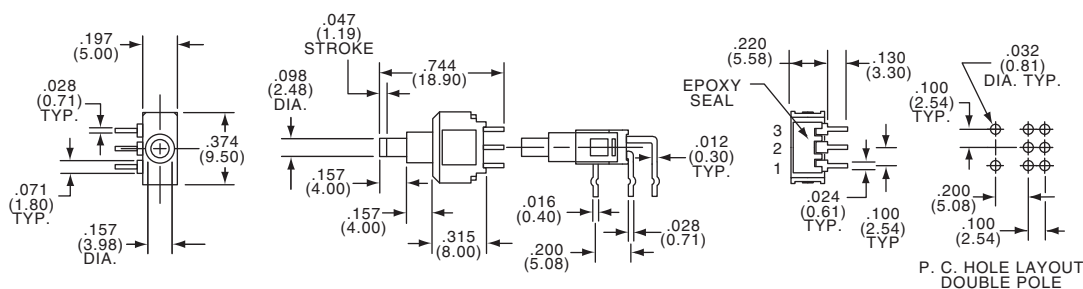
Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
1-1437567-9	APBE1FGRA	SPDT	On	(On)	Gold
Terminals Connected: 2-3 (2-1)					
(On) indicates momentary position.					

DPDT

Extra compact double pole
saves PCB real estate.



APBE2RGRA



Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
2-1437567-1	APBE2RGRA	DPDT	On	(On)	Gold
Terminals Connected: 2-3 & 5-6 (2-1 & 5-4)					
(On) indicates momentary position.					

Pushbutton Switches, Sub-Miniature, Panel Mount

MPA3 Series

MATERIAL SPECIFICATIONS:

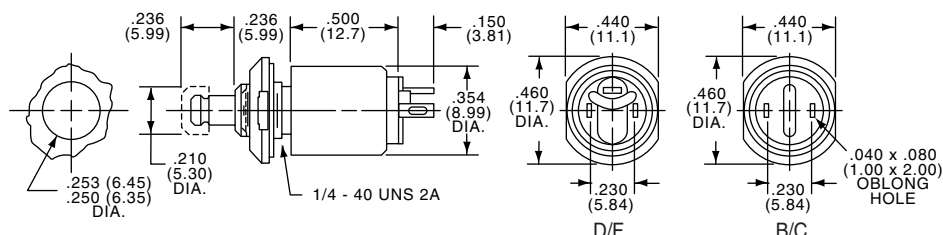
ContactsSilver clad
Case MaterialThermoset
Actuator MaterialPolyamide
TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)
Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
Initial Contact Resistance20 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,000 Volts RMS @ sea level
Actuation Force10 oz. SPST, 16 oz. SPDT average
Actuator Travel.....100" (2.54)
Life ExpectancyUp to 10,000 Cycles
Note: Hardware included with switches



SPST/SPDT



MPA103C

Part Number		Type	Act. Code	P. M6	Action	Contact Rating
Tyco Electronics	Alcoswitch					
2-1437567-4	MPA103B	SPST	14		N. C. Momentary	3 Amps
2-1437567-5	MPA103C	SPST	13		N. O. Momentary	3 Amps
2-1437567-6	MPA103D	SPDT	16		Push on/push off- (tactile)	3 Amps
2-1437567-7	MPA103F	SPDT	15		Momentary - (tactile)	3 Amps

Black Cap supplied. Other colors available, order separately.
(See Cap C5 and C8 on Page D32.)

MPB Series

Pushbutton Switches, Miniature, Over-Travel

MATERIAL SPECIFICATIONS:

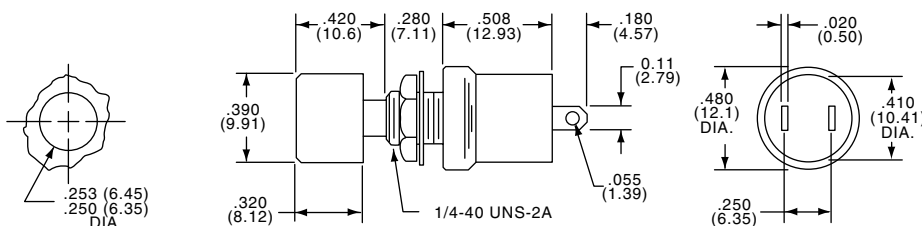
ContactsSilver plate
Case MaterialThermoset
Actuator MaterialPolyamide
TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
Storage Temperature.....+5°F to +158°F (-15°C to +70°C)
Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
Initial Contact Resistance20 Milliohms max.
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,000 Volts RMS @ sea level
Actuator Travel.....100" (2.54) Overtravel .059" (1.5mm)
Life Expectancy20,000 Cycles
Note: Hardware included with switches



SPST



MPB103B

Part Number		Type	Act. Code	P. M6	Action	Actuator Color
Tyco Electronics	Alcoswitch					
3-1437567-9	MPB103B	SPST	14		N.C. Momentary	Black
4-1437567-0	MPB103C	SPST	13		N.O. Momentary	Red