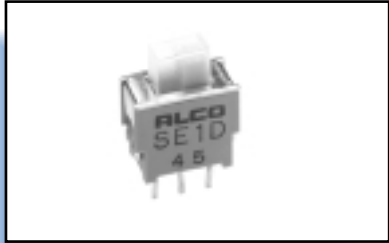




ASE/F Series - Page B3



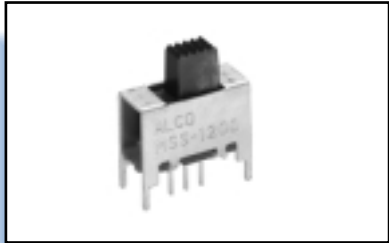
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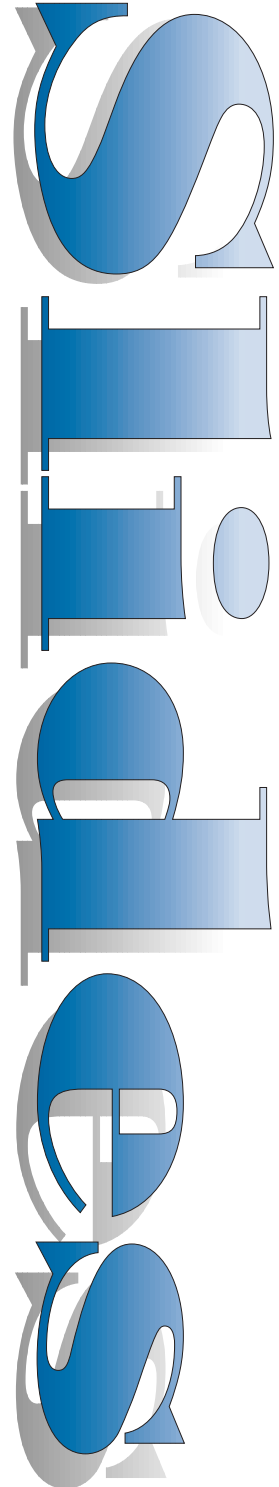
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Slide Switch Selection Guide

PRODUCT LINE FEATURES

- One of the broadest lines in the industry.
- One of six pole configurations.
- Current ratings from 0.4V @ 20VDC to 6A @ 125VAC.
- Miniature and sub-miniature case sizes.
- Gold or silver plating available in most sizes.
- Wave solderable, washable, and surface mount versions.
- Rocker (butt), shoe and bifurcated contact mechanisms.
- Vertical and RA actuator styles.

CIRCUITRY	SERIES	TERMINATION	CONTACT RATING/PLATING	ACTUATION	LIFE EXPECTANCY
SPST	SSM	P.C./RIGHT ANGLE	300mA/SILVER OR GOLD	STANDARD	5K CYCLES
	TSS	P.C.	.4VA/GOLD	STANDARD/FLUSH	80K CYCLES
SPDT	ASE/F	P.C./RIGHT ANGLE	300mA/silver:.4VA/GOLD	STANDARD/FLUSH/RA	10K CYCS
	MAS	WIRELUG	6A @ 125VAC	STANDARD	30K CYCLES
	MAS	WIRELUG	3A @ 250VAC	STANDARD	30K CYCLES
	MHS	P.C.	.4VA/GOLD:300mA/SILVER	STANDARD/BATON	15K CYCLES
	MKS	P.C./RIGHT ANGLE	100MA @ 30VDC	STANDARD	10K CYCLES
	MLL	SURFACE MOUNT	0.3A @ 4 VDC	RIGHT ANGLE	10K CYCLES
	MMS	P.C.	100MA/SILVER	STANDARD/RIGHT ANGLE	10K CYCLES
	MSS	P.C.	.4VA/GOLD:300MA/SILVER	STANDARD/RIGHT ANGLE	15K CYCLES
	MSSA01	P.C./WIRE WRAP	.4VA/GOLD	STANDARD/RIGHT ANGLE	30K CYCLES
	MSSA04	P.C.	4A/SILVER	STANDARD/RIGHT ANGLE	30K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125VAC	STANDARD	10K CYCLES
	SE, AS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	6K CYCLES
	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	SLS/A	P.C.	500mA/SILVER	STANDARD	10K CYCLES
	SSA	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES
	SSB	P.C.	100MA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	10K CYCLES
	SSJ	P.C.	100mA/SILVER	STANDARD/RIGHT ANGLE	10K CYCLES
	SSM	P.C.	250mA/SILVER	STANDARD	5K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD/FLUSH	60-80K CYCLES
SP3T	MHS	P.C.	300MA/SILVER:.4VA/GOLD	STANDARD/BATON	15K CYCLES
	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES
	MSSA	P.C.	300MA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES
	SDS	P.C./RIGHT ANGLE	300mA @ 125VAC	STANDARD	10K CYCLES
	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250MA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP4T	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES
	MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP5T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	SLS	P.C./RIGHT ANGLE	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP6T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES
SP7T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
SP8T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
SP10T	SL	P.C.	250mA/SILVER	STANDARD	6K CYCLES
DPST	SSM	P.C.	250mA/SILVER	STANDARD	5K CYCLES
	TSS	P.C.	.4VA/GOLD	STANDARD/FLUSH	80K CYCLES
DPDT	ASE/F	P.C.	.4VA/GOLD:300mA SILVER	STANDARD/FLUSH/RA	10K CYCLES
	CSS	P.C.	300mA/SILVER	BATON	15K CYCLES
	CST	P.C.	300mA/SILVER	BATON	15K CYCLES
	MAS	WIRELUG	6A @ 125VAC	STANDARD	30K CYCLES
	MAS	WIRELUG	3A @ 250 VAC	STANDARD	30K CYCLES
	MHS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/BATON	15K CYCLES
	MMS	P.C.	100mA/SILVER	STANDARD/RIGHT ANGLE	10K CYCLES
	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES
	MSSA01	P.C.	.4VA/GOLD	STANDARD/RIGHT ANGLE	30K CYCLES

Need more technical information?

Consult your Thomas & Betts
sales office listed on the back cover

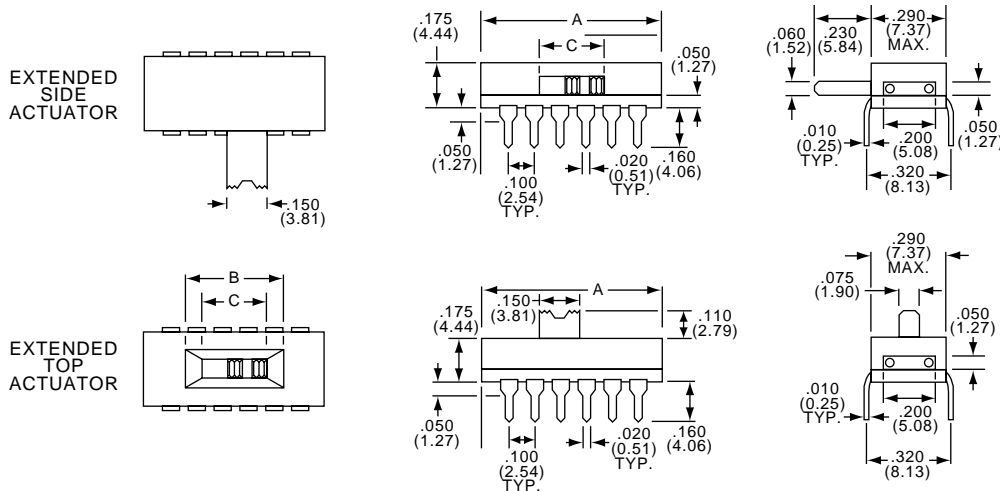
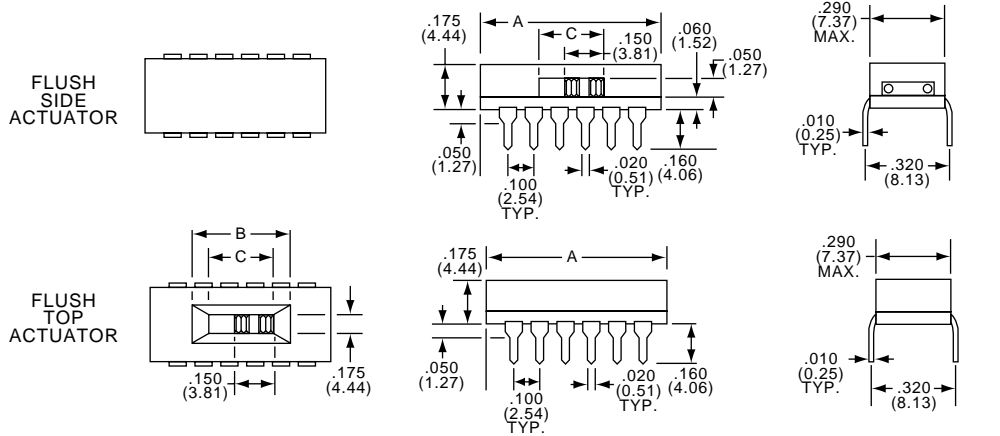
Slide Switch Selection Guide *(continued)*

CIRCUITRY	SERIES	TERMINATION	CONTACT RATING/PLATING	ACTUATION	LIFE EXPECTANCY	
B DPDT	MSSA04	P.C.	.4VA/SILVER	STANDARD/RIGHT ANGLE	30K CYCLES	
	MSSA44	P.C.	.4VA/GOLD:250mA/SILVER	STANDARD	50K CYCLES	
	SDS	P.C./RIGHT ANGLE	300mA @ 125 VAC	STANDARD	10K CYCLES	
	SE, AS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	10K CYCLES	
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES	
	SLS/A	P.C.	500mA/SILVER	STANDARD	10K CYCLES	
	SSA	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES	
	SSA/SSJ	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES	
	SSM	P.C.	250 mA/SILVER	STANDARD	5K CYCLES	
	STS	P.C./RIGHT ANGLE	300 mA/SILVER	STANDARD	10K CYCLE	
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD/FLUSH	60-80K CYCLES	
	DP3T	CST	P.C.	300mA/SILVER	BATON	10K CYCLES
		MHS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/BATON	15KCYCLES
		MMS	P.C.	100mA/SILVER	RIGHT ANGLE	10K CYCLES
		MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES
SDS		P.C./RIGHT ANGLE	300mA @ 125 VAC	STANDARD	10K CYCLES	
SLS		P.C.	250mA/SILVER	STANDARD	6K CYCLES	
STS		P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES	
DP4T	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES	
	MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES	
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES	
DP5T	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES	
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES	
DP6T	STS	P.C./RIGHT ANGLE	300mA/SILVER	STANDARD	10K CYCLES	
	SLS	P.C.	250mA/SILVER	STANDARD	6K CYCLES	
3P3T	MSS	P.C.	300mA/SILVER: .4VA/GOLD	STANDARD	15K CYCLES	
	SSB	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES	
3P4T	MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES	
	ASE/F	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/FLUSH/RA	10K CYCLES	
4PDT	CST	P.C.	300mA/SILVER	BATON	10K CYCLES	
	MMS	P.C.	100mA/SILVER	STANDARD/RIGHT ANGLE	10K CYCLES	
	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES	
	SSB	P.C.	100mA/SILVER:.4VA/GOLD	STANDARD	10K CYCLES	
	TSS	P.C./RIGHT ANGLE	.4VA/GOLD	STANDARD	80K CYCLES	
	ASE/F	P.C.	300mA/SILVER	STANDARD/FLUSH/RA	10K CYCLES	
	CST	P.C.	300mA/SILVER	BATON	10K CYCLES	
4P3T	MHS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES	
	MMS	P.C.	100mA/SILVER	STANDARD/RIGHT ANGLE	10K CYCLES	
	MSS/MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15L CYCLES	
	MSSA	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES	
4P4T	ASE/F	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/FLUSH/RA	10K CYCLES	
	CST	P.C.	300mA/SILVER:.4VA/GOLD	BATON	10K CYCLES	
6PDT	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD	15K CYCLES	
	MSS	P.C.	300mA/SILVER:.4VA/GOLD	STANDARD/RIGHT ANGLE	15K CYCLES	

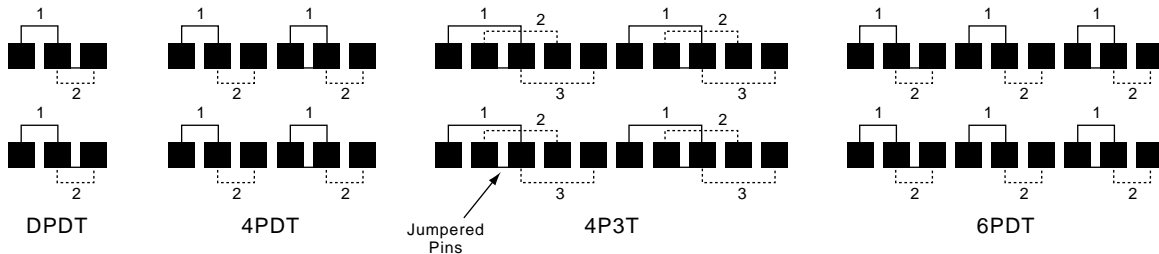
ASE/F Series *Auto-insertable Slide Switch/ Telecom Grade Thru-hole and Surface Mount*

ASE/F SERIES DIMENSIONS

B



CIRCUIT DIAGRAMS



DIMENSION CHART

Configuration	PATENT PENDING		Slot Length Dimension "C"
	Body Length Dimension "A"	Bevel Length Dimension "B"	
DPDT	.400/10.2mm	.370/9.4mm	.260/6.6mm
4PDT	.700/17.8mm	.370/9.4mm	.260/6.6mm
4P3T	1.10/27.9mm	.470/11.9mm	.360/9.1mm
6PDT	1.00/25.4mm	.370/9.4mm	.260/6.6mm

NOTE: P for SPDT requirements order DPDT version and use either set of contacts for SPDT switching.

Thomas & Betts

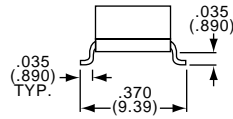
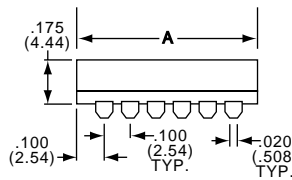
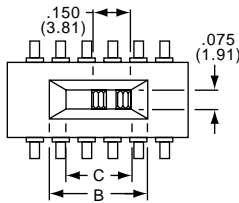
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B6

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Auto-insertable Slide Switch/ Telecom Grade ASE/F Series

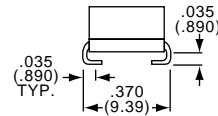
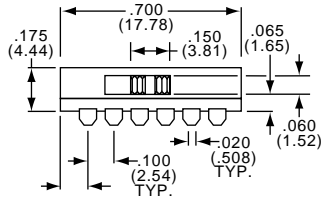
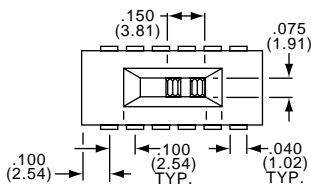
"L" PAD



"L" PAD
(GULLWING)

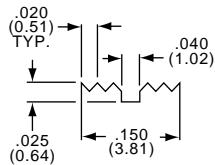
B

REVERSE "S" PAD

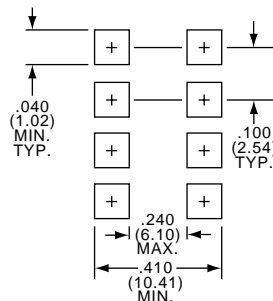


REVERSE "S" PAD
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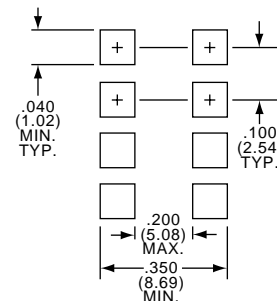
ACTUATOR DETAILS



PAD LAYOUT



"L" PAD



REVERSE "S" PAD

Additional surface mount lead configurations are available. Contact factory for details. All body and actuator dimensions are identical to standard ASE/F.

Need more technical information?

Consult your Thomas & Betts
sales office listed on the back cover

ASE/F/FO Series *Auto-insertable Slide Switch* Thru Hole and Surface Mount

MATERIAL SPECIFICATIONS:

Contacts Gold over nickel over copper alloy
 Silver over nickel flash over copper alloy
 Case Material/Base Polyester
 Actuator Material Polyester
 Movable Contact Beryllium copper
 Terminal/Fixed Contacts Copper alloy, terminals tin lead plate (90/10)
 Terminal Seal Insert molded
 Process Seal Tape seal on ASF upright version

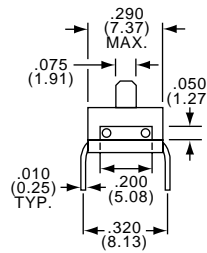
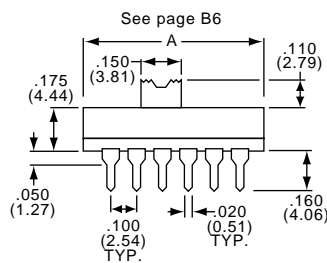
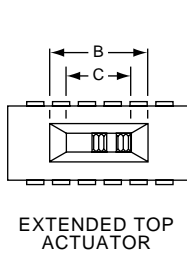
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA @ 20 VDC max. shorting type
 Silver: 300 milliamps @ 115 VDC max. shorting type
 Initial Contact Resistance 40 Milliohms max.
 Contact Timing Shorting
 Insulation Resistance 1,000 Megohms @ 500 VDC min.
 Dielectric Strength 1,000 Volts RMS @ sea level
 Actuation Force 950 Grams max.
 Life Expectancy 10,000 Cycles min.

ENVIRONMENTAL SPECIFICATIONS:

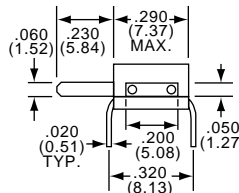
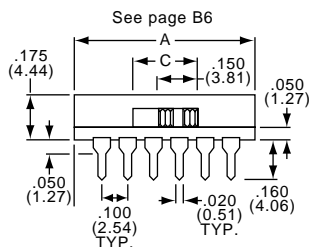
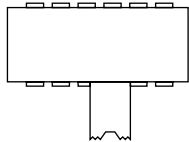
Operating Temperature -20°C to +100°C (-4°F to +212°F)
 Storage Temperature -40°C to +20°C (-40°F to +212°F)
 Solder Heat Resistance Withstands vapor phase, reflow and wave soldering processes

NOTE: Refer to page B5 for additional options and dimensions.

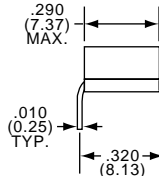
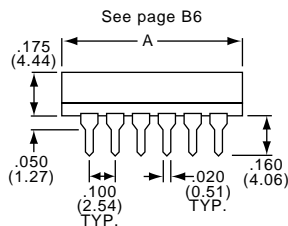
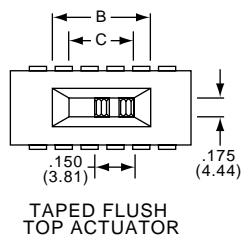


Model	Type	Contact	Lever Type
ASE22	DPDT	Silver	Upright
ASE22G	DPDT	Gold	Upright
ASE42	4PDT	Silver	Upright
ASE42G	4PDT	Gold	Upright
ASE43	4P3T	Silver	Upright
ASE43G	4P3T	Gold	Upright
ASE62	6PDT	Silver	Upright
ASE62G	6PDT	Gold	Upright

EXTENDED SIDE ACTUATOR

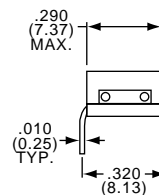
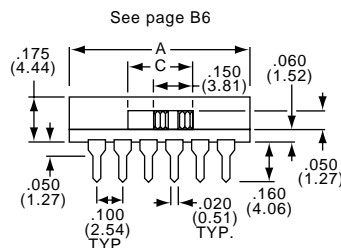
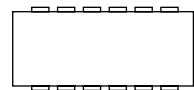


Model	Type	Contact	Lever Type
ASE22R	DPDT	Silver	Right Angle
ASE22RG	DPDT	Gold	Right Angle
ASE42R	4PDT	Silver	Right Angle
ASE42RG	4PDT	Gold	Right Angle
ASE43R	4P3T	Silver	Right Angle
ASE43RG	4P3T	Gold	Right Angle
ASE62R	6PDT	Silver	Right Angle
ASE62RG	6PDT	Gold	Right Angle



Model	Type	Contact	Lever Type
ASF(*)22	DPDT	Silver	Flush
ASF(*)22G	DPDT	Gold	Flush
ASF(*)42	4PDT	Silver	Flush
ASF(*)42G	4PDT	Gold	Flush
ASF(*)43	4P3T	Silver	Flush
ASF(*)43G	4P3T	Gold	Flush
ASF(*)62	6PDT	Silver	Flush
ASF(*)62G	6PDT	Gold	Flush

FLUSH SIDE ACTUATOR



Model	Type	Contact	Lever Type
ASF22R	DPDT	Silver	Flush, Right Angle
ASF22RG	DPDT	Gold	Flush, Right Angle
ASF42R	4PDT	Silver	Flush, Right Angle
ASF42RG	4PDT	Gold	Flush, Right Angle
ASF43R	4P3T	Silver	Flush, Right Angle
ASF43RG	4P3T	Gold	Flush, Right Angle
ASF62R	6PDT	Silver	Flush, Right Angle
ASF62RG	6PDT	Gold	Flush, Right Angle

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Process Sealed Slide Switches for Washing/Wiping Contacts **SE Series**

"Boot Seal" With Retention Feature

MATERIAL SPECIFICATIONS:

Contacts Gold alloy copper plate
 Case Material Polyester (UL94 V-O)
 Frame Material Copper alloy nickel plate
 Terminal Seal Epoxy
 Process Seal Silicone rubber boot
 Terminals Tin lead

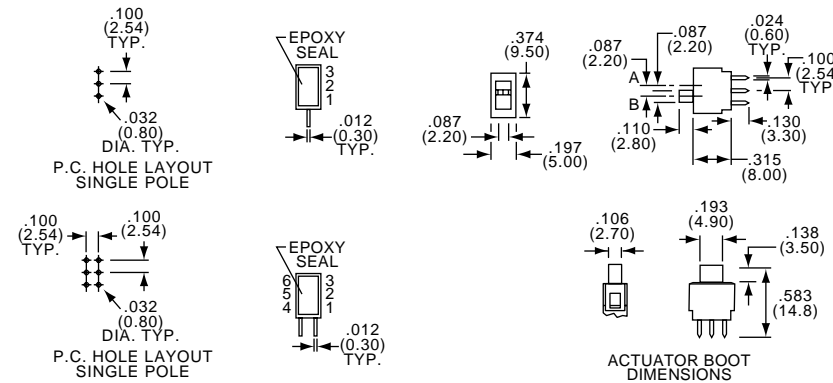
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -40°F to +176°F (-40°C to +80°C)
 Solder Heat Resistance Ref. MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA @ 20 VDC
 Initial Contact Resistance 50 Milliohms max.
 Contact Timing Break before make
 Insulation Resistance 500 Megohms @ 250 VDC
 Dielectric Strength 500 VAC for 1 min.
 Actuation Force 100 to 500 Grams
 Actuator Travel087
 Life Expectancy 10,000 Cycles

B



SE1DGPC

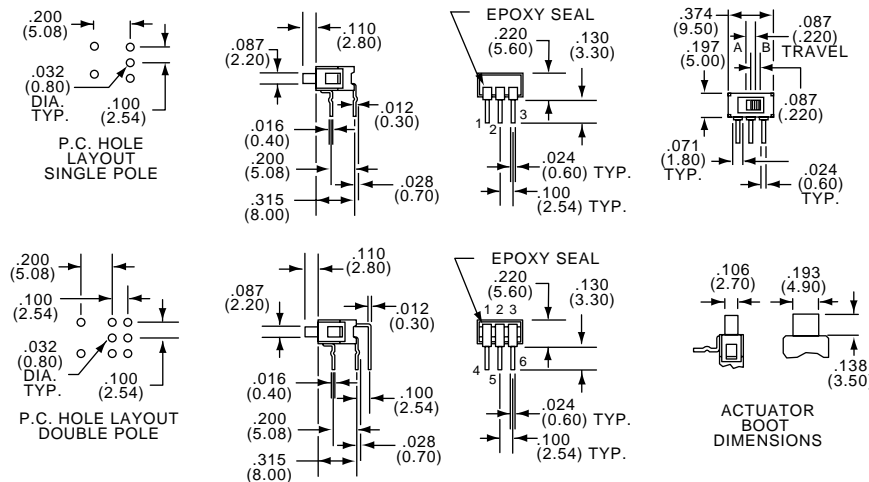
DPDT

Extra compact double pole saves PCB real estate.



SE2DGPC

Model				Model			
SE1DGPC	On	None	On	SE2DGPC	On	None	On
SE1EGPC	On	Off	On	SE2EGPC	On	Off	On
Terminals Connected	1-2		2-3	Terminals Connected	1-2, 4-5		2-3, 5-6



SPDT

Extra compact double pole saves PCB real estate.



SE1DGRA

DPDT

Extra compact double pole saves PCB real estate.



SE2DGRA

Model				Model			
SE1DGRA	On	None	On	SE2DGRA	On	None	On
SE1EGRA	On	Off	On	SE2EGRA	On	Off	On
Terminals Connected	1-2		2-3	Terminals Connected	1-2, 4-5		2-3, 5-6

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

Economy Grade Miniature Slide Switch/Low Profile STS Series

MATERIAL SPECIFICATIONS:

Contacts Silver clad copper alloy
 Case Material Steel zinc plated
 Actuator Material Polyester (UL 94HB)
 Terminal Seal Epoxy
 Terminals/Fixed Contacts Silver plate copper alloy

ENVIRONMENTAL SPECIFICATIONS:

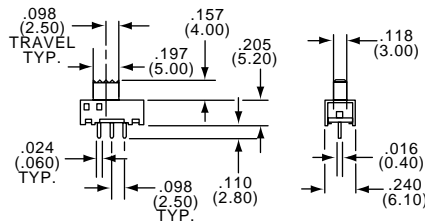
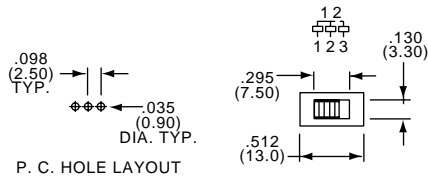
Operating Temperature -5°F to 140°F (-15°C to +60°C)
 Storage Temperature -4°F to +158°F (-20°C to +70°C)
 Solder Heat Resistance MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 300 mA @ 125 VAC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Make-before-break
 Insulation Resistance 100 Megohms min. @ 500 VDC
 Dielectric Strength 500 VAC
 Actuation Force 250 Grams, +150 Grams, -100 Grams
 Actuator Travel 0.098"
 Life Expectancy 10,000 Cycles

NOTICE: Bifurcated contact produces double wiping, self-cleaning contacts.

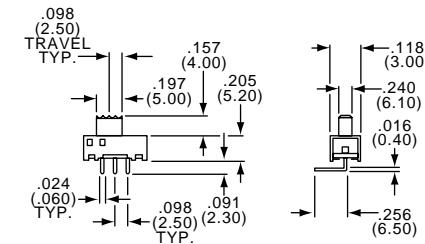
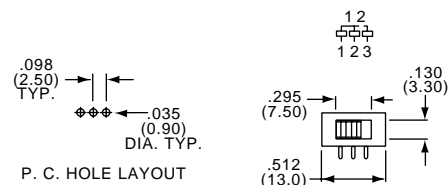
B



Model	Plating	Slide Type
STS121PC	Silver	Upright

SPDT

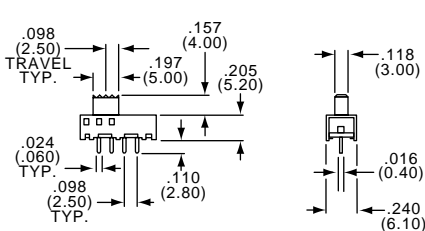
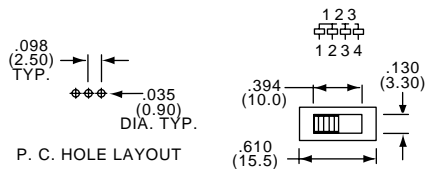
STS121PC



Model	Plating	Slide Type
STS121RA	Silver	Right Angle

SPDT

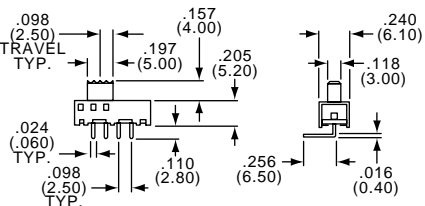
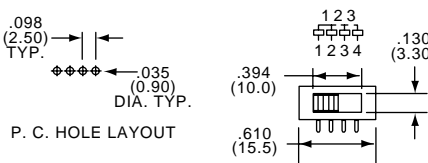
STS121RA



Model	Plating	Slide Type
STS131PC	Silver	Upright

SP3T

STS131PC



Model	Plating	Slide Type
STS131RA	Silver	Right Angle

SP3T

STS131RA

Need more technical information?

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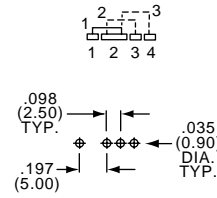
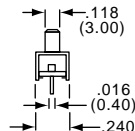
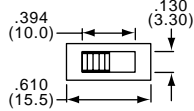
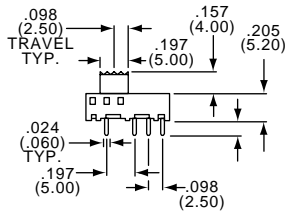
STS Series *Economy Grade Miniature Slide Switch*

SEE PAGE B11 FOR PRODUCT SPECIFICATIONS

SP3T



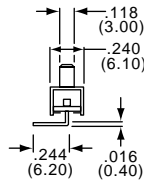
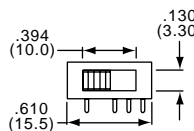
STS1300PC



SP3T



STS1300RA



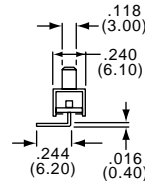
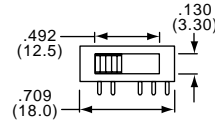
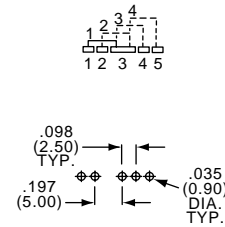
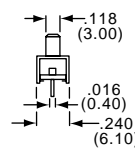
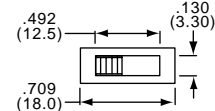
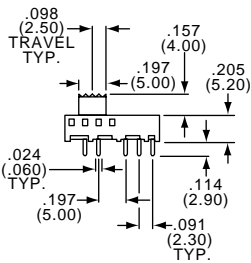
P. C. HOLE LAYOUT

Model	Plating	Slide Type
STS1300PC	Silver	Upright
STS1300RA	Silver	Right Angle

SP4T



STS1400PC



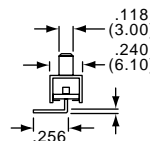
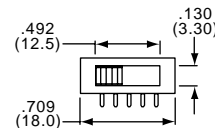
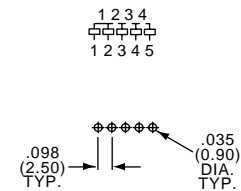
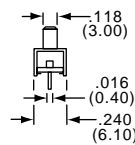
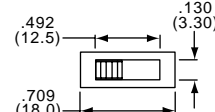
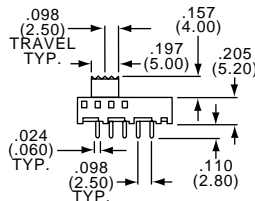
P. C. HOLE LAYOUT

Model	Plating	Slide Type
STS1400PC	Silver	Upright
STS1400RA	Silver	Right Angle

SP4T



STS141RA



P. C. HOLE LAYOUT

Model	Plating	Slide Type
STS141PC	Silver	Upright
STS141RA	Silver	Right Angle

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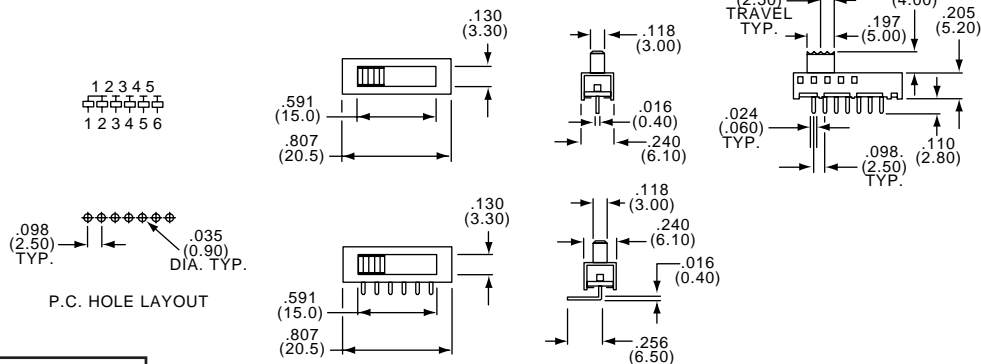
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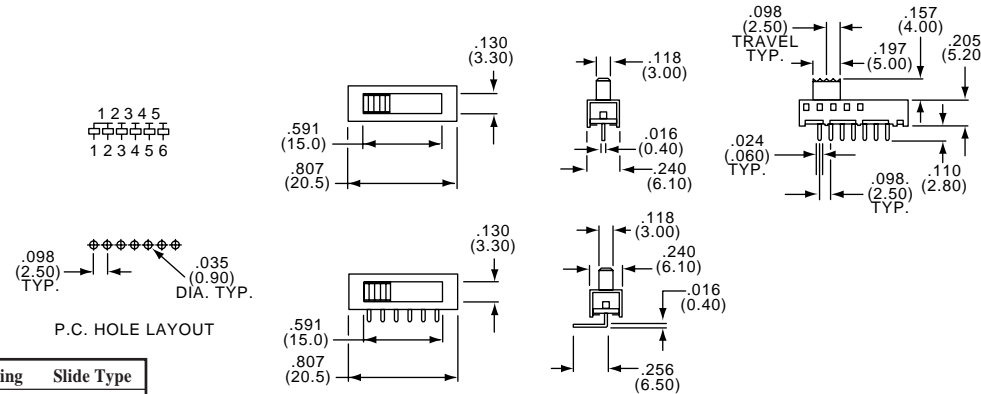
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Low Profile/Miniature Slide/Multi-Position STS Series

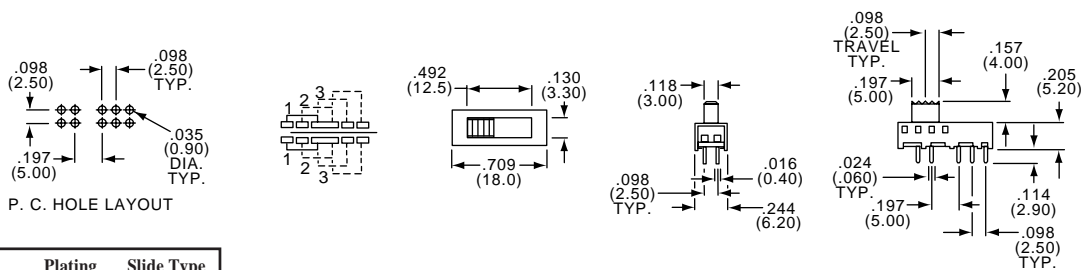
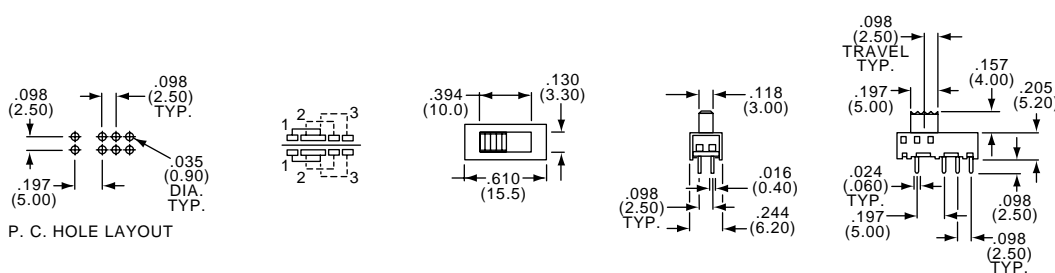
SEE PAGE B11 FOR PRODUCT SPECIFICATIONS



Model	Plating	Slide Type
STS151PC	Silver	Upright
STS151RA	Silver	Right Angle



Model	Plating	Slide Type
STS161PC	Silver	Upright
STS161RA	Silver	Right Angle



Model	Plating	Slide Type
STS2300PC	Silver	Upright
STS2400PC	Silver	Upright

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

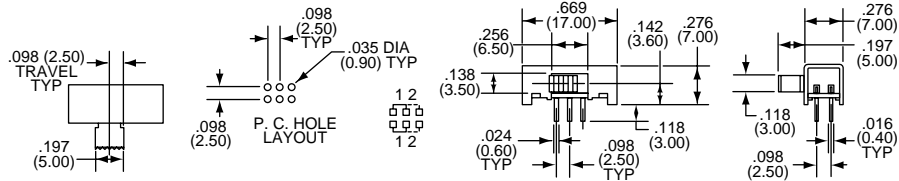
STS Series *Economy Grade Miniature Slide Switch*

SEE PAGE B11 FOR PRODUCT SPECIFICATIONS NOTICE: STS 2300 and 2400 are available with slotted actuators upon request.

DPDT



STSA220RA

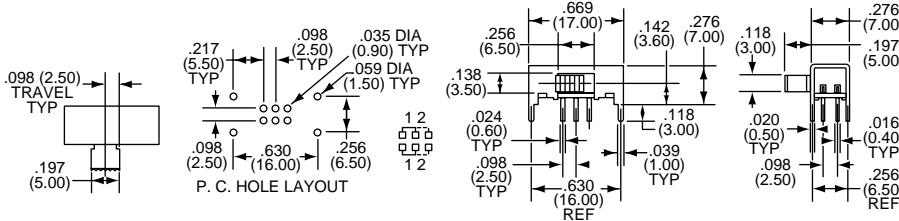


Model	Plating	Slide Type
STSA220RA	Silver	Right Angle

DPDT



STSA220RA1

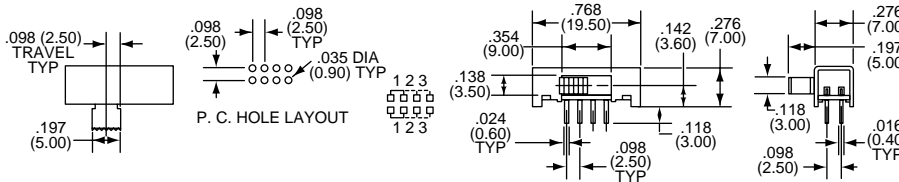


Model	Plating	Slide Type
STSA220RA1	Silver	Right Angle

DP3T



STSA230RA

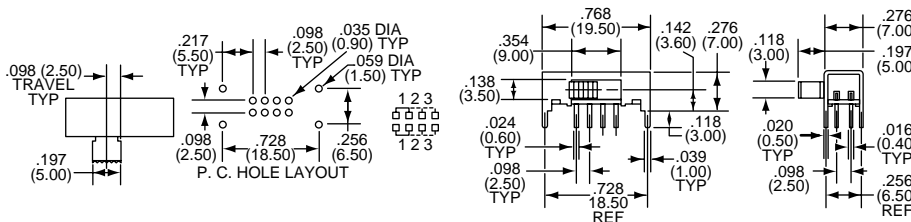


Model	Plating	Slide Type
STSA230RA	Silver	Right Angle

DP3T



STSA230RA1

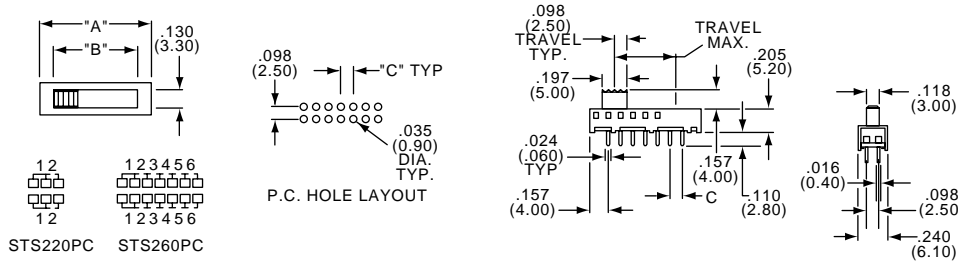


Model	Plating	Slide Type
STSA230RA1	Silver	Right Angle

DP6T/DP5T/DP4T/
DP3T/DP2T



STS220PC



Model	Type	Dim.A	Dim.B	Dim.C	Travel Max.	Pin Holes	Model	Type	Dim.A	Dim.B	Dim.C	Travel Max.	Pin Holes
STS220PC	DP2T	.512(13.0)	.295(7.50)	.098(2.50)	.098(2.50)	6	STS250PC	DP5T	.807(20.5)	.591(15.0)	5 Places	.394(10.0)	12
STS230PC	DP3T	.610(15.5)	.394(10.0)	.197(5.00)	.197(5.00)	8	STS260PC	DP6T	.906(23.0)	.689(17.5)	6 Places	.492(12.5)	14
STS240PC	DP4T	.709(18.0)	.492(12.5)	.295(7.50)	.295(7.50)	10							

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Instrument Grade/Decorative Slide Actuator SDS Series

MATERIAL SPECIFICATIONS:

Contacts Silver clad copper alloy
 Case Material Steel, tin plated
 Actuator Material Polycarbonate
 Terminals/Fixed Contacts Silver over nickel
 Terminal Seal Epoxy

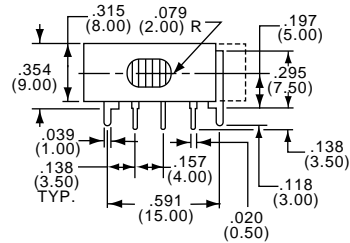
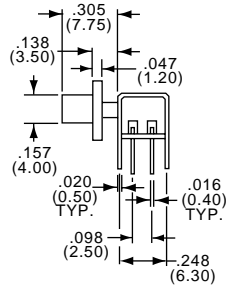
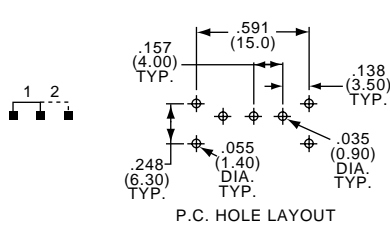
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 300 mA @ 125 VAC
 Initial Contact Resistance 20 Milliohms max.
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 500 VAC
 Actuation Force 250 Grams, +200 Grams, -150 Grams
 Plunger/Actuator Travel079
 Life Expectancy 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -14°F to +140°F (-10°C to +60°C)
 Storage Temperature -14°F to +140°F (-10°C to +60°C)
 Solder Heat Resistance MIL-STD-202, Method 210

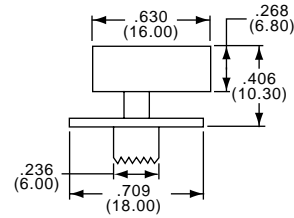
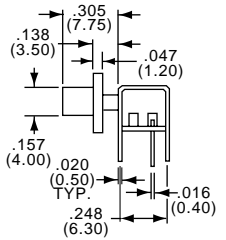
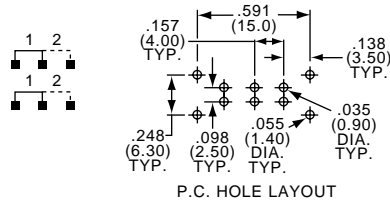
B



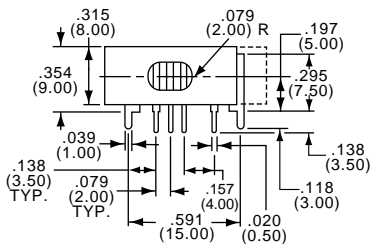
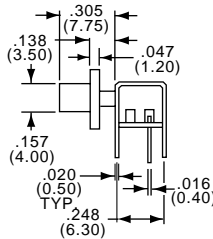
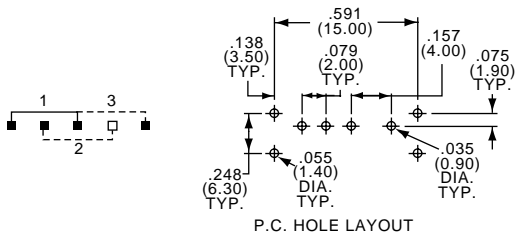
SPDT/DPDT



SDS2240RA0



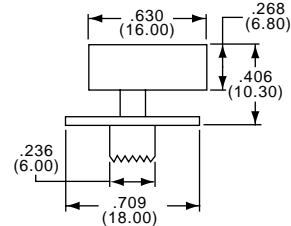
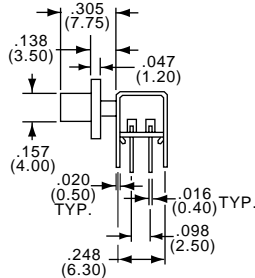
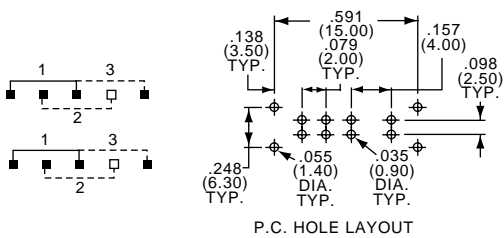
Model	Type	On	None	On	Plating	Actuator Color	Model	Type	On	None	On	Plating	Actuator Color
SDS1240RA0	SPDT	On	None	On	Silver	Black	SDS2240RA0	DPDT	On	None	On	Silver	Black
SDS1240RA8	SPDT	On	None	On	Silver	Gray	SDS2240RA8	DPDT	On	None	On	Silver	Gray



SP3T/DP3T



SDS1340RA8



Model	Type	On	On	On	Plating	Actuator Color	Model	Type	On	On	On	Plating	Actuator Color
SDS1340RA0	SP3T	On	On	On	Silver	Black	SDS2340RA0	DPDT	On	On	On	Silver	Black
SDS1340RA8	SP3T	On	On	On	Silver	Gray	SDS2340RA8	DPDT	On	On	On	Silver	Gray

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MAS Series *6 Amp Miniature Slide/Instrumentation Grade*

MATERIAL SPECIFICATIONS:

Contacts Silver, copper alloy
 Frame Material Stainless steel frame
 Actuator Material Polyamide
 Terminal Seal Epoxy
 Terminals/Fixed Contacts: ... Silver over copper alloy

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)
 Solder Heat Resistance MIL-STD-202, Method 210

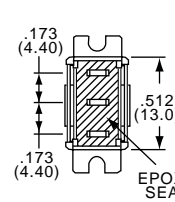
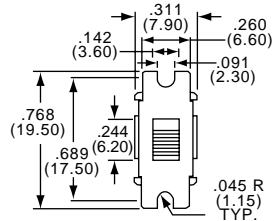
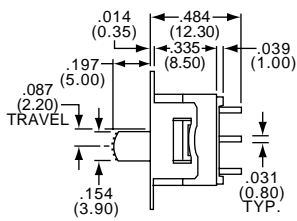
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 6 A @ 125 VAC, 3 A @ 250 VAC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 1,000 VAC
 Actuation Force 300 - 800 Grams
 Plunger/Actuator Travel087"
 Life Expectancy 30,000 Cycles

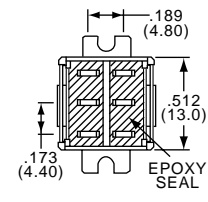
SPDT



MAS106D



SPDT

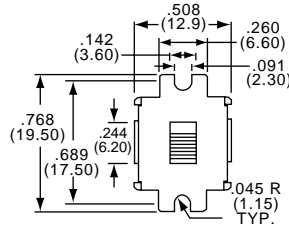
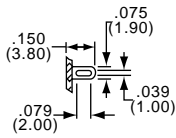


DPDT

DPDT



MAS206N



Model	Type	On	None	On	Plating
MAS106N	SPDT	On	None	On	Silver
MAS206N	DPDT	On	None	On	Silver

MKS Series *Momentary Slide Switch/Instrumentation Grade*

MATERIAL SPECIFICATIONS:

Contacts Silver
 Case Material Tin plated steel
 Actuator Material Polycarbonate
 Terminals/Fixed Contacts Silver
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature +5°F to +110°F (-15°C to +60°C)
 Storage Temperature -4°F to +128°F (-20°C to +70°C)
 Solder Heat Resistance MIL-STD-202, Method 210

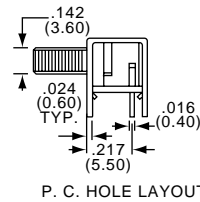
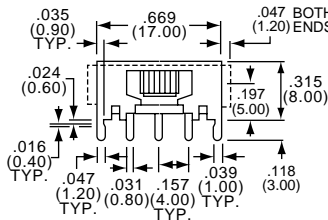
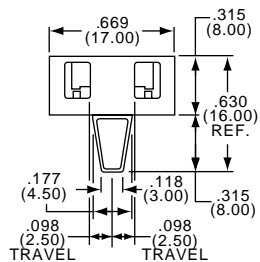
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 200 mA @ 122 VDC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 500 VAC
 Actuation Force 100 to 300 Grams, 200 Grams ±100 Grams
 Plunger/Actuator Travel098"
 Life Expectancy 10,000 Cycles

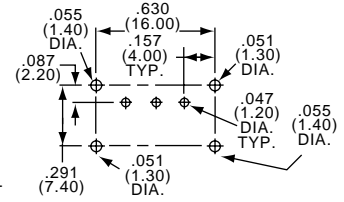
SPDT



MKS122MRA8



P. C. HOLE LAYOUT



Model	Type	Plating	Actuator Color
MKS122MRA0	SPDT	Silver	Black
MKS122MRA8	SPDT	Silver	Gray

Combination Slide / Pushbutton For Pagers SPS Series

MATERIAL SPECIFICATIONS:

Contacts Gold over nickel
 Base Thermoset
 Actuator Material Polyester
 Frame Copper alloy, tin/lead plate
 Movable Contact Copper alloy
 Terminals Copper alloy, terminals tin lead plate (90/10)
 Terminal Seal High temperature sealant

TYPICAL PERFORMANCE CHARACTERISTICS:

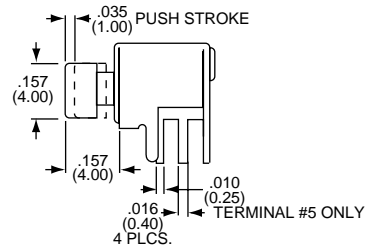
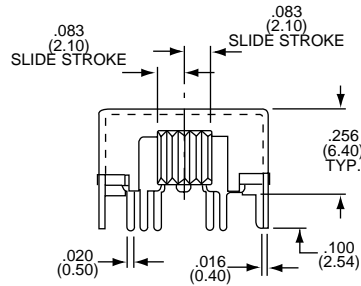
Contact Rating 0.4 VA @ 20 VDC
 Initial Contact Resistance 50 Milliohms typical initial
 Insulation Resistance 100 Megohms min. @ 250 VDC
 Dielectric Strength 250 Volts RMS @ sea level
 Actuation Force 100-400 Grams

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -22°F to +149°F (-30°C to +65°C)
 Storage Temperature -40°F to +185°F (-40°C to +85°C)

NEW

B

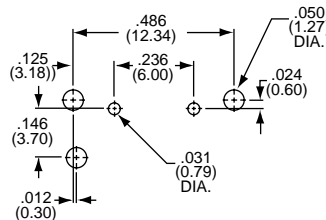
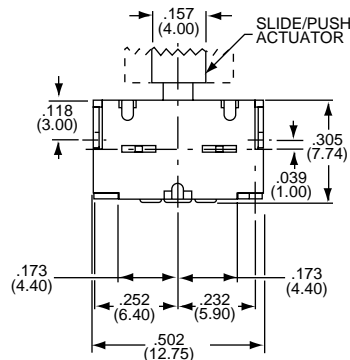
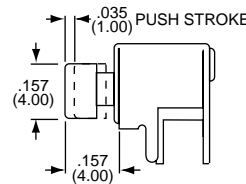
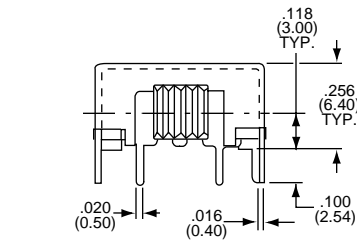
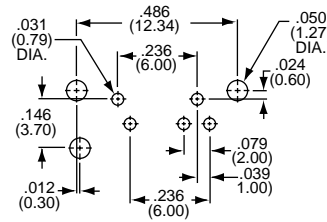
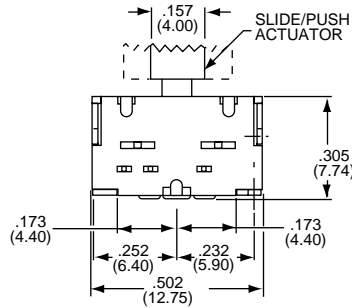


SPS121151RG

Part Number
SPS121151RG

Pushbutton	Switch Pin Numbers
4 to 5	4 to 5
Knob in	Knob
Normal	Pushed
Position	Down
OFF	ON

ACTUATION CHART



Part Number
SPS1151RG

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

TSS-PC Series *Slide Switches for PC Termination* *"Vertical Single/Dual Actuators"*

MATERIAL SPECIFICATIONS:

Contacts Copper w/gold plate over nickel
 Case Material High temperature polyester (94-VO)
 Actuator Material Polyester (94-VO)
 Terminals Copper w/gold over nickel
 Terminal Seal Epoxy standard: single pole, optional: double pole

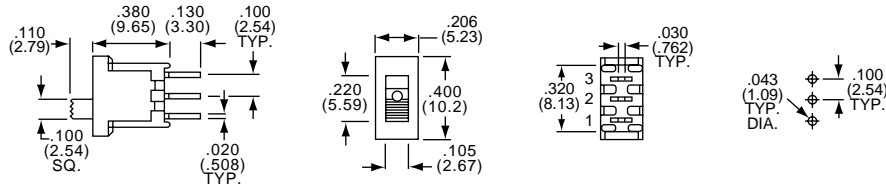
ENVIRONMENTAL SPECIFICATIONS:

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

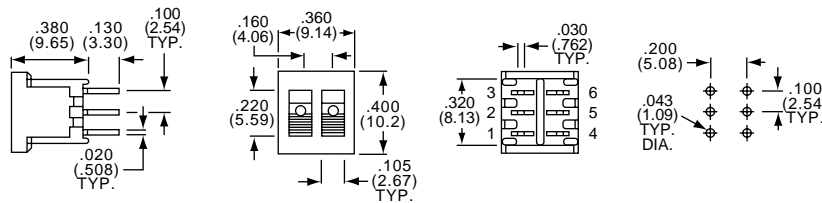
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA max. @ 20 VDC or peak AC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Non-shorting
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 1,000 Volts RMS @ sea level
 Plunger/Actuator Travel120"
 Life Expectancy 60,000-80,000 Cycles

SPST/SPDT



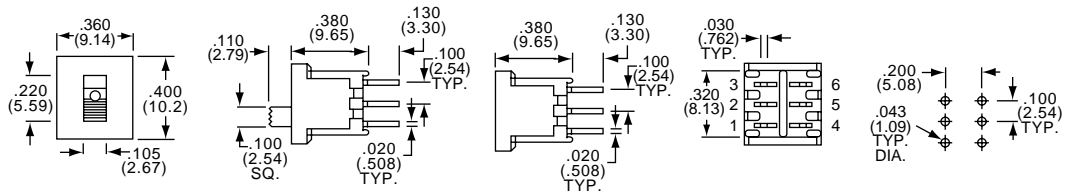
SPST/SPDT (DUAL)



Model	Type	Act. Code	P. M8	On	None	Off	Model	Type	Act. Code	P. M8	On	None	Off
TSS11AGPC	SPDT	A		On	None	Off	TSD21AAGPC	2 x SPST	A		On	None	Off
TSS11DGPC	SPDT	D		On	None	On	TSD21DDG1PC	2 x SPDT	D		On	None	On
TSS11EGPC	SPDT	E		On	Off	On							
TSS11AA1PC	SPST	A		On	None	Off							
TSS11DG1PC	SPDT	D		On	None	On					On	None	On
TSS11EG1PC	SPDT	E		On	Off	On							

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

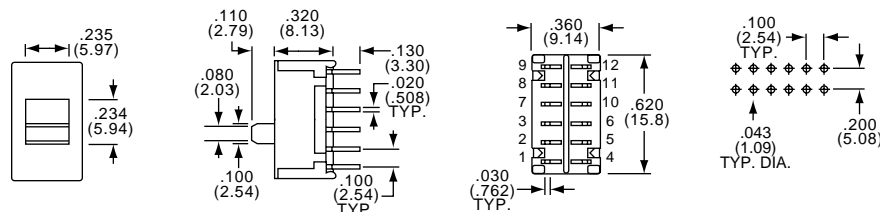
DPST/DPDT



Model	Type	Act. Code	P. M8	On	None	Off	Model	Type	Act. Code	P. M8	On	None	Off
TSS21KNGPC	DPST	K		On	None	Off	TSS21KNG1PC	DPST	K		On	None	Off
TSS21NGPC	DPDT	N		On	None	On	TSS21NG1PC	DPDT	N		On	None	On
TSS21PGPC	DPDT	P		On	Off	On	TSD21NG1PC	DPDT	P		On	Off	On

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

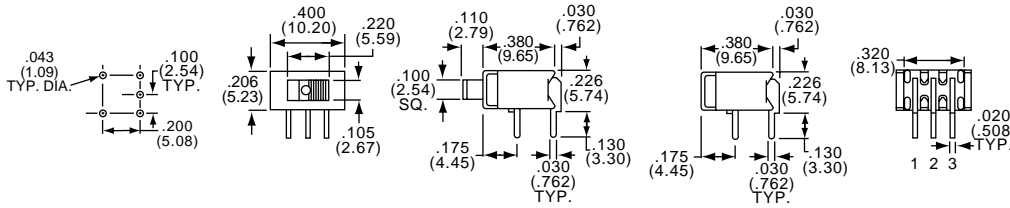
4PDT



Model	Type	Act. Code	P. M8	On	None	Off
TSS41NGPC	4PDT	N		On	None	On

Slide Switches for PC Termination "Right Angle Single/Dual Actuators" TSS-RA Series

SEE PAGE B18 FOR PRODUCT SPECIFICATIONS



SPDT



TSS11DGRA

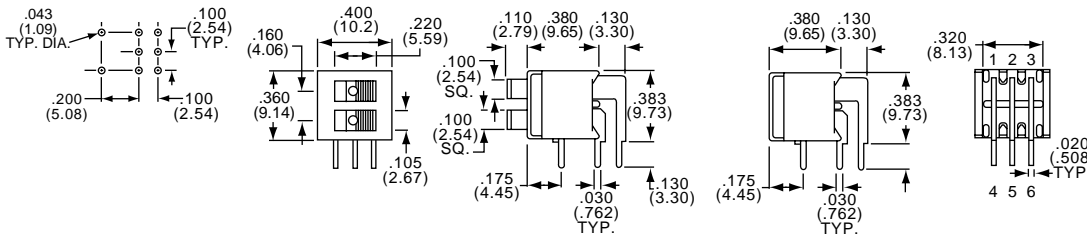


TSS11DG1RA

Model	Type	Act. Code	P. M8	On	None	On	Model	Type	Act. Code	P. M8	On	None	On
TSS11DGRA	SPDT	D		On	None	On	TSS11DG1RA	SPDT	D		On	None	On
TSS11EGRA	SPDT	E		On	Off	On	TSS11EG1RA	SPDT	E		On	Off	On

B

SPDT (DUAL)

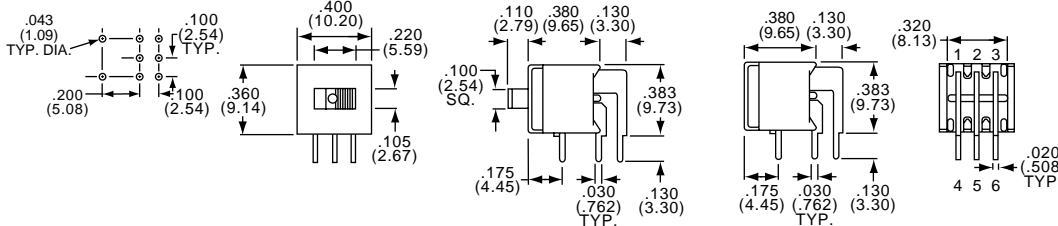


TSD21DDGRA



TSD21DDG1RA

Model	Type	Act. Code	P. M8	On	None	On	Model	Type	Act. Code	P. M8	On	None	On
TSD21DDGRA	2 x SPDT	D		On	None	On	TSD21DDG1RA	2 x SPDT	D		On	None	On
TSD21EEGRA	2 x SPDT	E		On	Off	On	TSD21EEG1RA	2 x SPDT	E		On	Off	On



DPDT

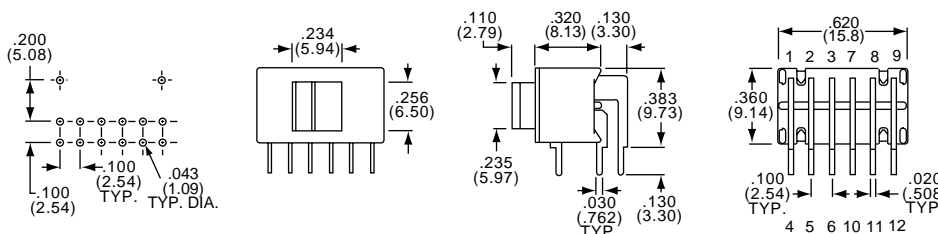


TSS21NGRA



TSS21PG1RA

Model	Type	Act. Code	P. M8	On	None	On	Model	Type	Act. Code	P. M8	On	None	On
TSS21PAGRA	DPDT	PA		On	On	On	TSS21NG1RA	DPDT	N		On	Off	On
TSS21NGRA	DPDT	N		On	None	On	TSS21PG1RA	DPDT	P		On	Off	On
TSS21PGRA	DPDT	P		On	Off	On							



4PDT



TSS41NGRA

Model	Type	Act. Code	P. M8	On	None	On
TSS41NGRA	4PDT	N		On	None	On

Need more technical information?
Consult your Thomas & Betts
sales office listed on the back cover

AS Series *Space-Saver/Slide Switches/Gold Contacts Standard*

MATERIAL SPECIFICATIONS:

Contacts Gold over nickel
 Frame Material Nickel over copper alloy
 Case Material Thermoplastic UL 94V0
 Actuator Material Thermoplastic
 Terminals/Fixed Contacts: ... Gold over nickel
 Terminal Seal Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 0.4 VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance 50 Milliohms max.
 Contact Timing Break before make
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 500 VAC
 Actuation Force 70 to 500 Grams
 Life Expectancy 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

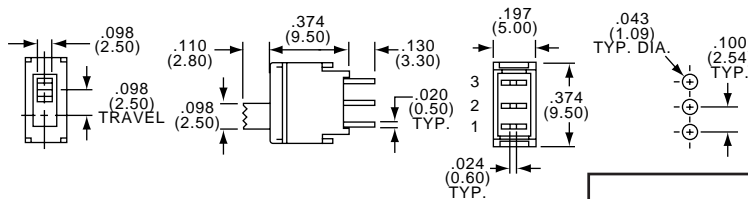
Operating Temperature -4°F to +176°F (-20°C to +80°)
 Storage Temperature -40°F to +176°F (-40°C to +80°C)
 Solder Heat Resistance MIL-STD-202, Method 210

NOTICE: Space saver DPDT action in a single pole case size.

1 POLE



AS1DGPC

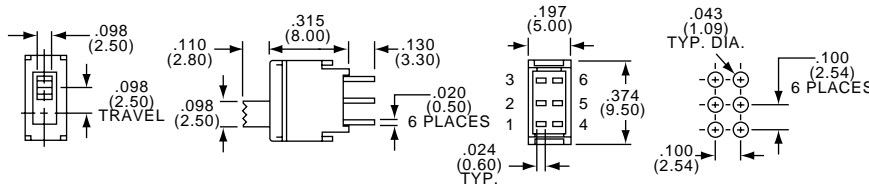


Model	Circuit Function				Contact Type
Terminals Connected		1-2	None	2-3	
AS1DGPC	SPDT	On	None	On	Gold
AS1EGPC	SPDT	On	None	On	Gold

2 POLE



AS2EGPC

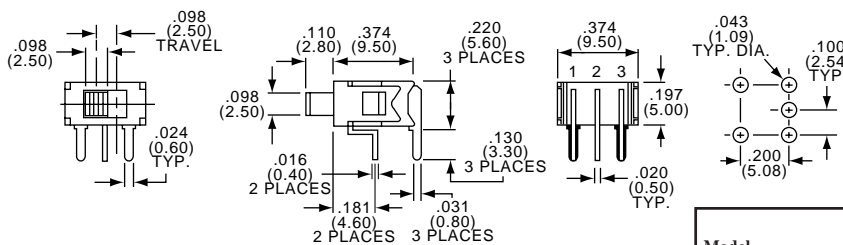


Model	Circuit Function				Contact Type
Terminals Connected		1-2, 4-5	None	2-3, 5-6	
AS2DPC	DPDT	On	None	On	Gold
AS2EGPC	DPDT	On	Off	On	Gold

1 POLE



AS1DGRA

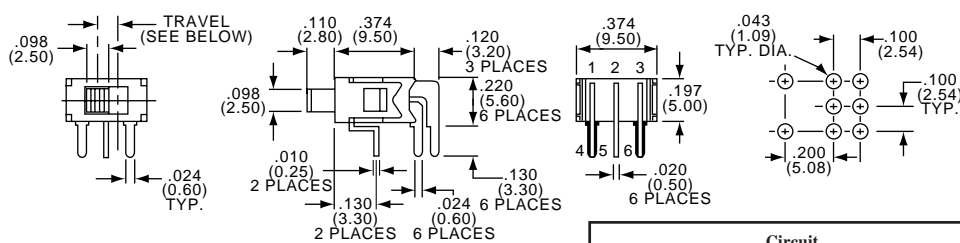


Model	Circuit Function				Contact Type
Terminals Connected		1-2,	None	2-3,	
AS1DGRA	SPDT	On	None	On	Gold

2 POLE



AS2EGRA



Model	Circuit Function	Travel				Contact Type
Terminals Connected			1-2, 4-5	None	2-3, 5-6	
AS2DGRA	DPDT	.100	On	None	On	Gold
AS2EGRA	DPDT	.150	On	Off	On	Gold

MSS Series *Instrumentation Grade Slide*

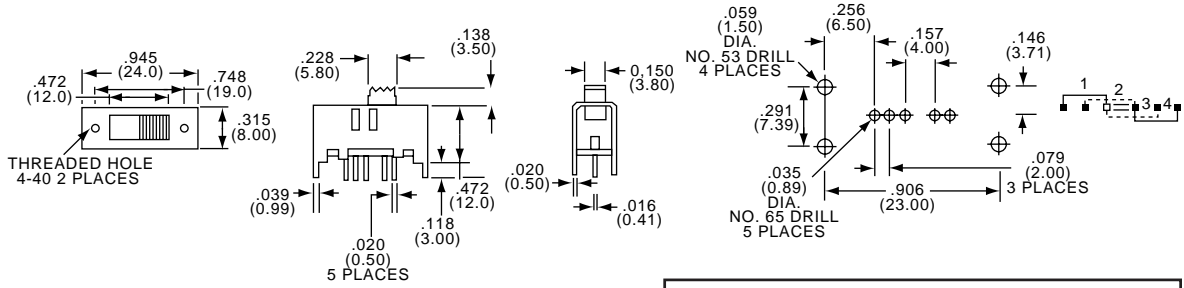
SEE PAGE B21 FOR PRODUCT SPECIFICATIONS

SP4T

B



MSS1400

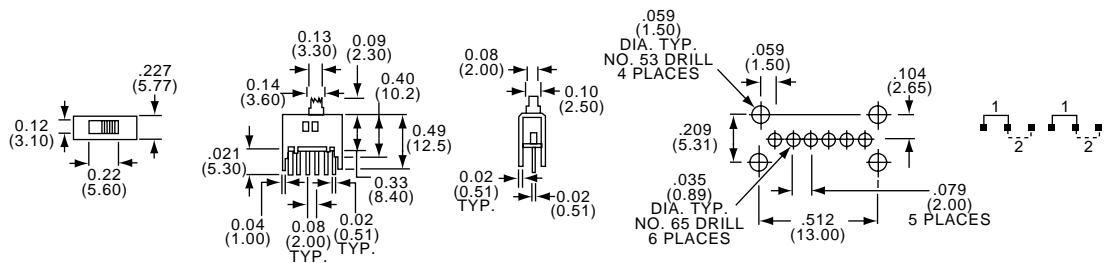


Model	Plating	Total Actuator Travel	Actuator Material
MSS1400	Silver	.079(2.00)	Polyester (94V-0)
MSS1400G	Gold	.079(2.00)	Polyester (94V-0)

DPDT



MSS2200

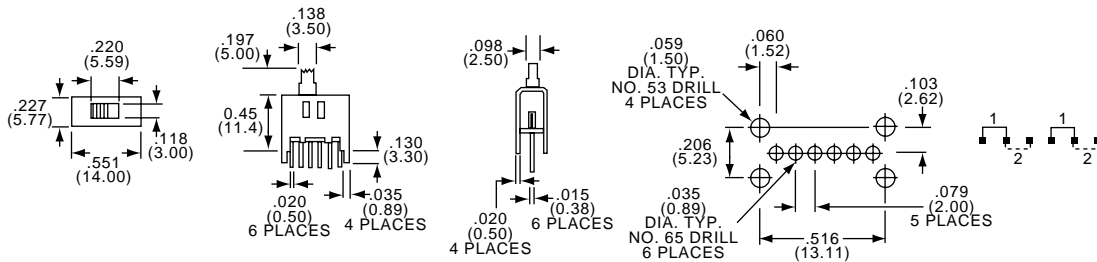


Model	Plating	Total Actuator Travel	Actuator Material
MSS2200	Silver	.079(2.00)	Polyester (94V-0)
MSS2200G	Gold	.079(2.00)	Polyester (94V-0)

DPDT



MSS2220

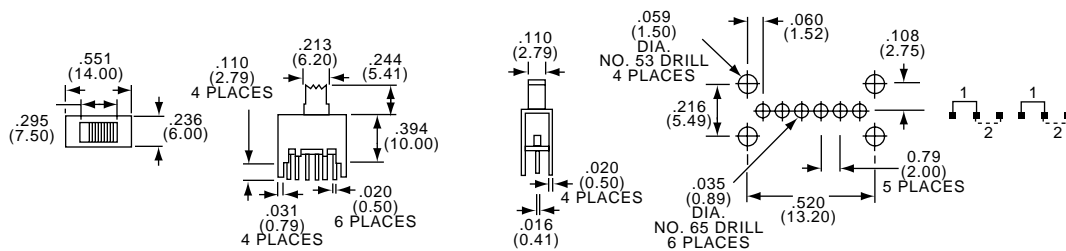


Model	Plating	Total Actuator Travel	Actuator Material
MSS2220	Silver	.079(2.00)	Polyester (94V-0)
MSS2220G	Gold	.079(2.00)	Polyester (94V-0)

DPDT



MSS2225

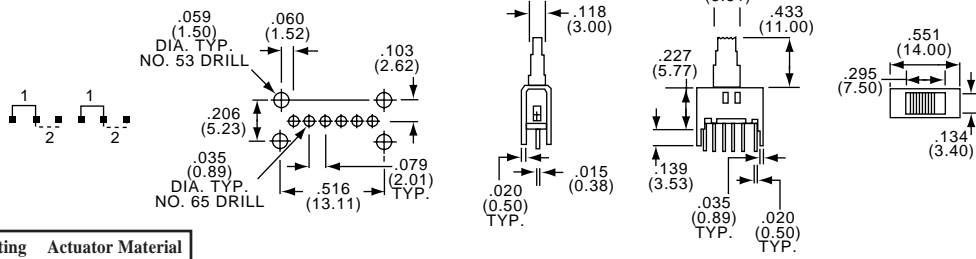


Model	Plating	Total Actuator Travel	Actuator Material
MSS2225G	Gold	.079(2.00)	Polyester (94V-0)

Instrumentation Grade Slide MSS Series

SEE PAGE B21 FOR PRODUCT SPECIFICATIONS

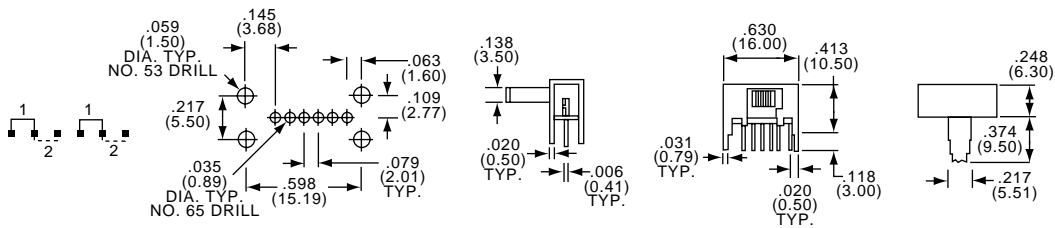
DPDT



MSS2250

Model	Plating	Actuator Material
MSS2250	Silver	Polyester (94V-0)
MSS2250G	Gold	Polyester (94V-0)

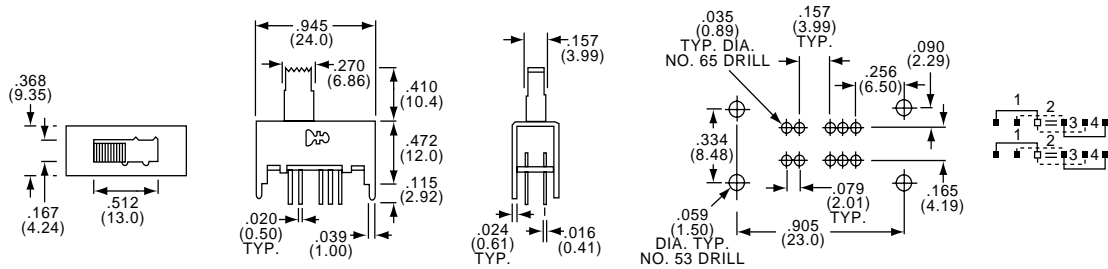
DPDT



MSS2250R

Model	Plating	Actuator Material
MSS2250R	Silver	Polyester (94V-0)
MSS2250RG	Gold	Polyester (94V-0)

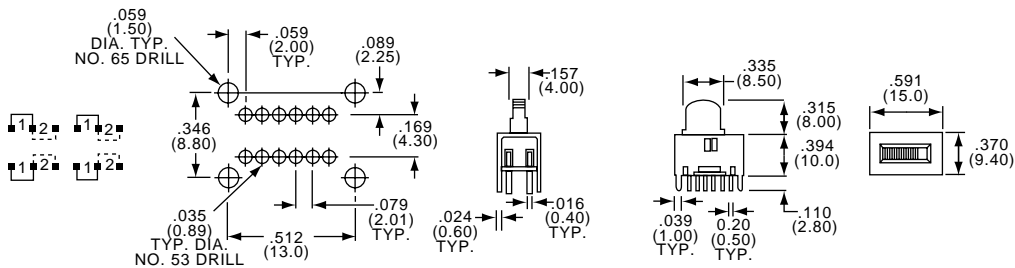
DP4T



MSSA2450

Model	Plating	Actuator Material
MSSA2450	Silver	Polyester (94V-0)
MSSA2450G	Gold	Polyester (94V-0)

4PDT



MSS4200

Model	Plating	Actuator Material
MSS4200	Silver	Polyester (94V-0)
MSS4200G	Gold	Polyester (94V-0)

Need more technical information?
Consult your Thomas & Betts
sales office listed on the back cover

B

MSS Series *Instrumentation Grade Slide Vertical/Right Angle Extended Actuators*

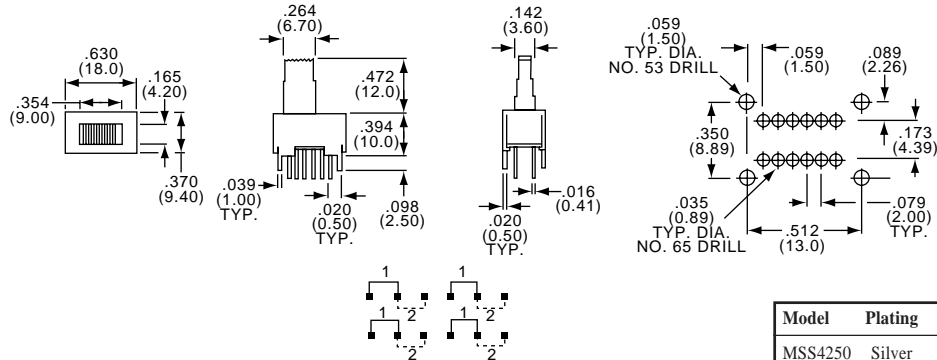
SEE PAGE B21 FOR PRODUCT SPECIFICATIONS

4PDT

B



MSS4250

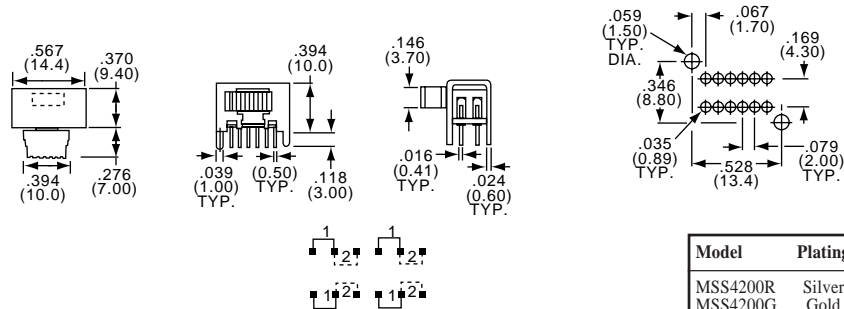


Model	Plating	Actuator Material
MSS4250	Silver	Polyester (94V-0)

4PDT



MSS4200R

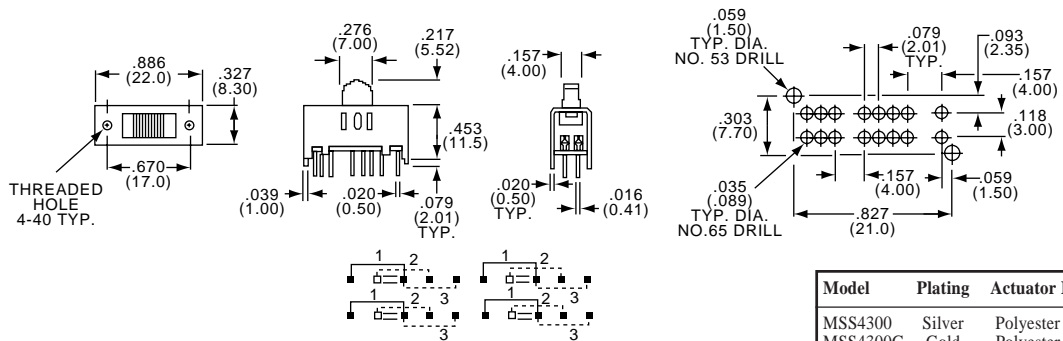


Model	Plating	Actuator Material
MSS4200R	Silver	Polyester (94V-0)
MSS4200G	Gold	Polyester (94V-0)

4P3T



MSS4300

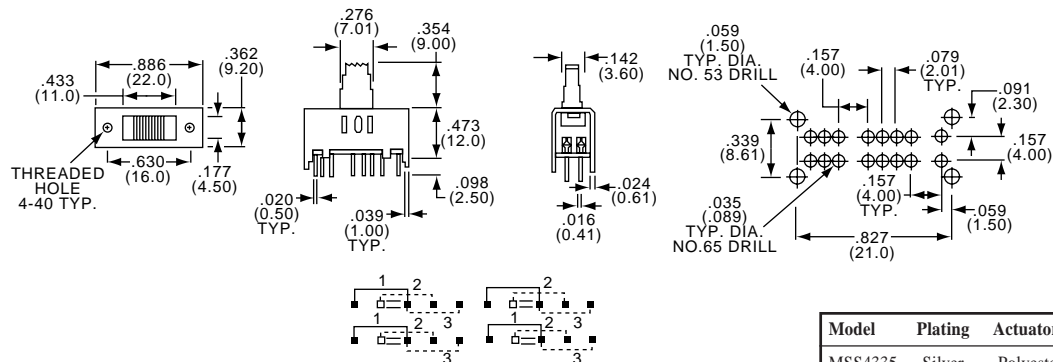


Model	Plating	Actuator Material
MSS4300	Silver	Polyester (94V-0)
MSS4300G	Gold	Polyester (94V-0)

4P3T



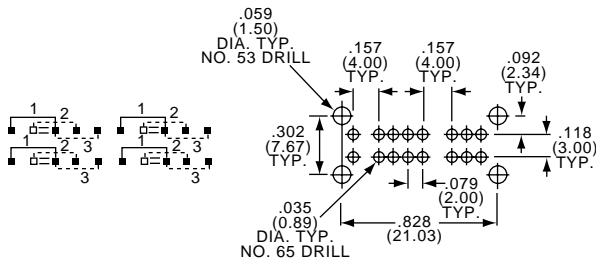
MSS4335



Model	Plating	Actuator Material
MSS4335	Silver	Polyester (94V-0)

Instrumentation Grade Slide Vertical/Right Angle Extended Actuators MSS Series

SEE PAGE B21 FOR PRODUCT SPECIFICATIONS

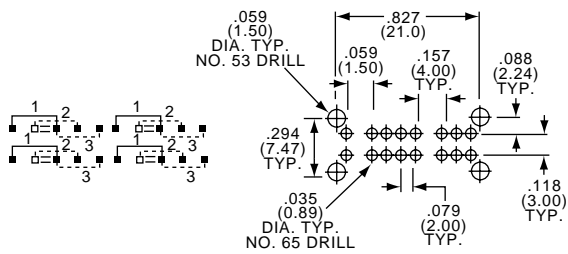


4P3T



MSS4300R

Model	Plating	Actuator Material
MSS4300R	Silver	Polyester (94V-0)
MSS4300RG	Gold	Polyester (94V-0)

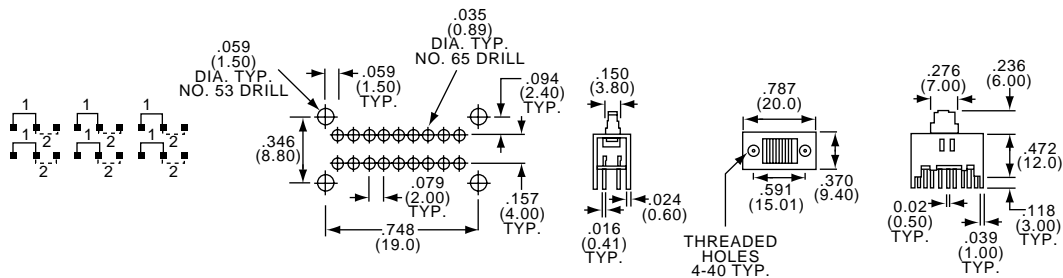


4P3T



MSS4350R

Model	Plating	Actuator Material
MSS4350R	Silver	Polyester (94V-0)
MSS4350RG	Gold	Polyester (94V-0)



6PDT



MSS6200

Model	Plating	Actuator Material
MSS6200	Silver	Polyester (94V-0)
MSS6200G	Gold	Polyester (94V-0)

Need more technical information?
Consult your Thomas & Betts sales office listed on the back cover

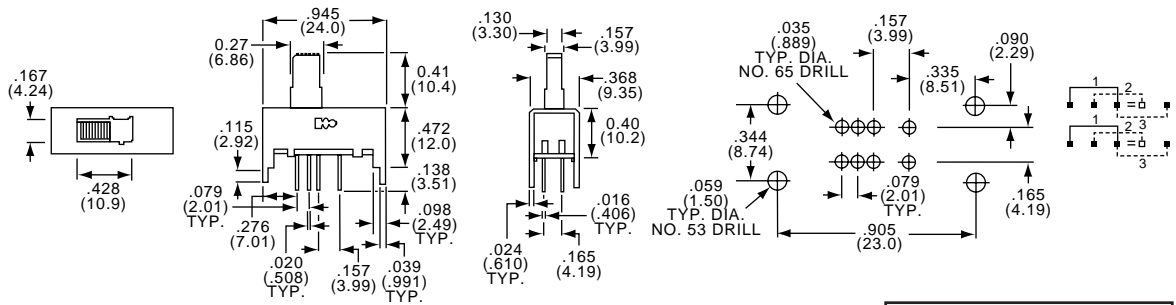
MSSA Series *Instrumentation Grade Slide*

SEE PAGE B27 FOR PRODUCT SPECIFICATIONS

DP3T



MSSA2350

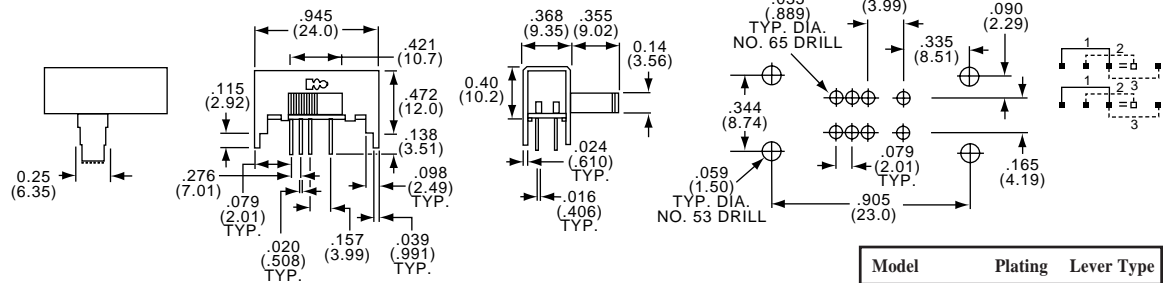


Model	Plating	Lever Type
MSSA2350	Silver	Upright
MSSA2350G	Gold	Upright

DP3T



MSSA2350R

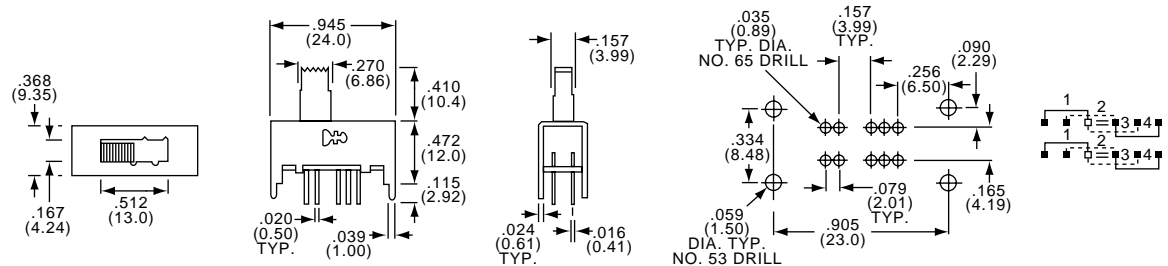


Model	Plating	Lever Type
MSSA2350R	Silver	Rt. Angle
MSSA2350RG	Gold	Rt. Angle

DP4T



MSSA2450

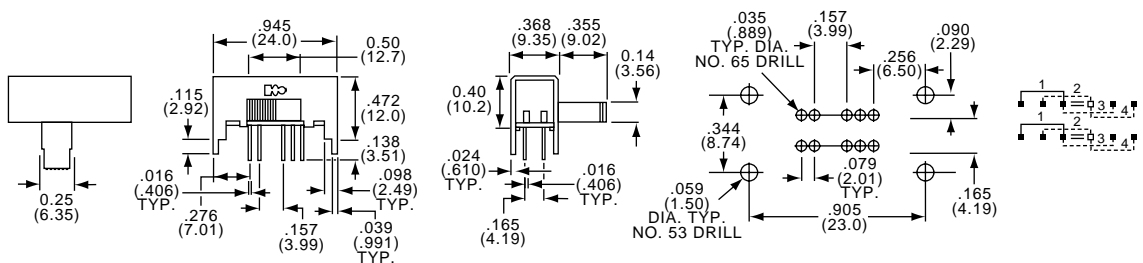


Model	Plating	Lever Type
MSSA2450	Silver	Upright
MSSA2450G	Gold	Upright

DP4T



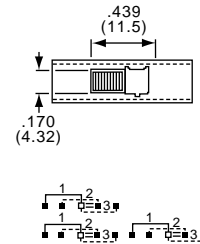
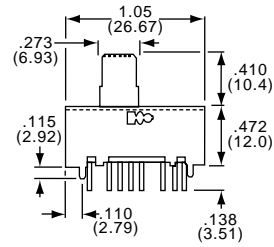
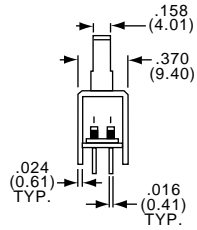
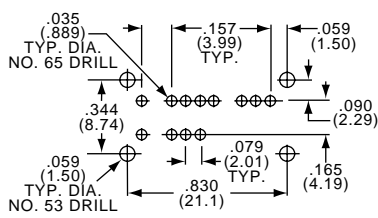
MSSA2450R



Model	Plating	Lever Type
MSSA2450R	Silver	Rt. Angle
MSSA2450RG	Gold	Rt. Angle

Instrumentation Grade Slide MSSA Series

SEE PAGE B27 FOR PRODUCT SPECIFICATIONS

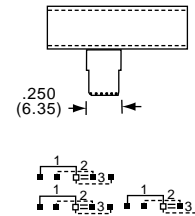
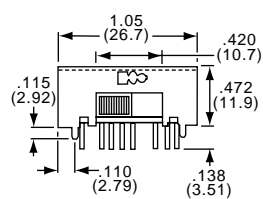
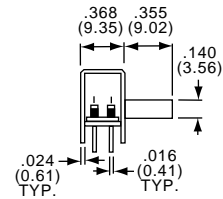
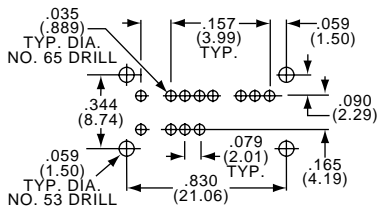


3P3T



MSSA3350

Model	Plating	Lever Type
MSSA3350	Silver	Upright
MSSA3350G	Gold	Upright

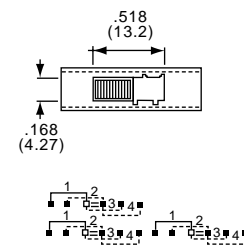
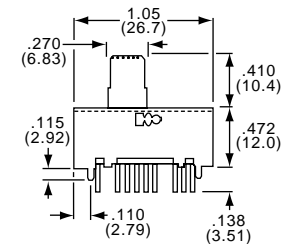
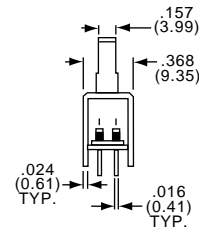
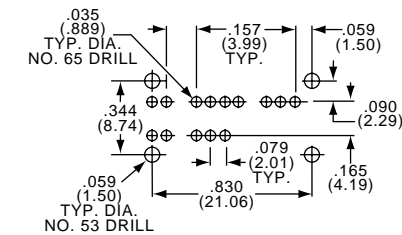


3P3T



MSSA3350R

Model	Plating	Lever Type
MSSA3350R	Silver	Rt. Angle
MSSA3350RG	Gold	Rt. Angle

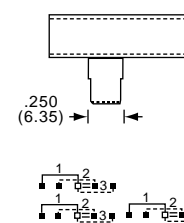
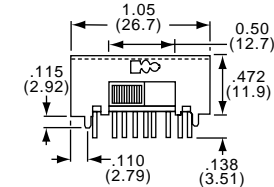
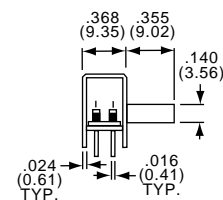
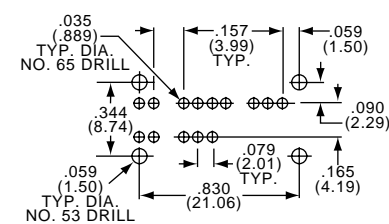


3P4T



MSSA3450

Model	Plating	Lever Type
MSSA3450	Silver	Upright
MSSA3450G	Gold	Upright



3P4T



MSSA3450R

Model	Plating	Lever Type
MSSA3450R	Silver	Rt. Angle
MSSA3450RG	Gold	Rt. Angle

Need more technical information?
Consult your Thomas & Betts
sales office listed on the back cover

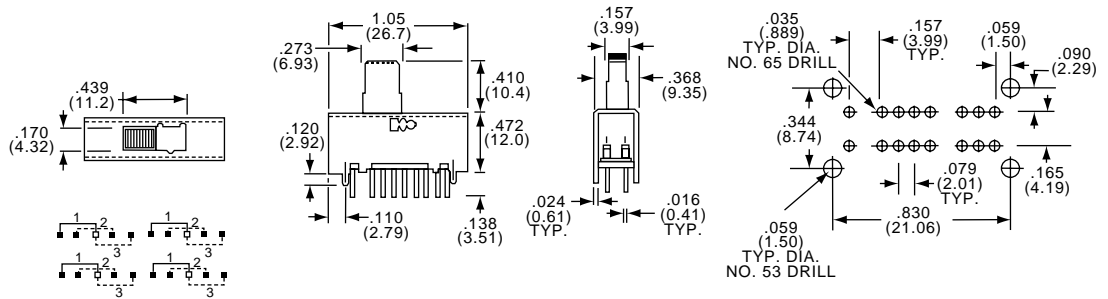
B

MSSA Series *Instrumentation Grade Slide*

SEE PAGE B27 FOR PRODUCT SPECIFICATIONS

4P3T

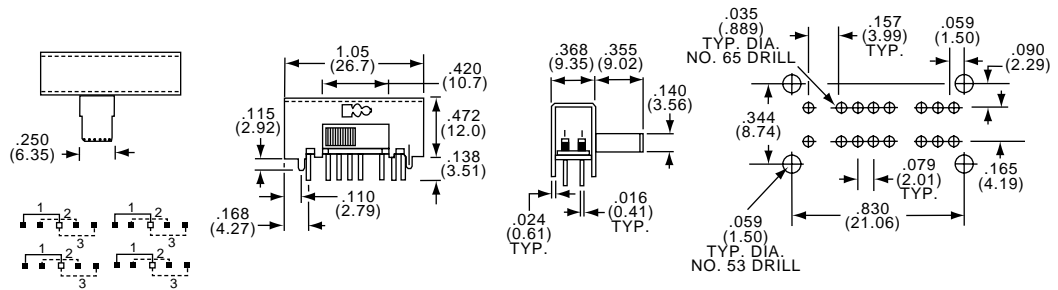
B



MSSA4350

Model	Plating	Lever Type
MSSA4350	Silver	Upright
MSSA4350G	Gold	Upright

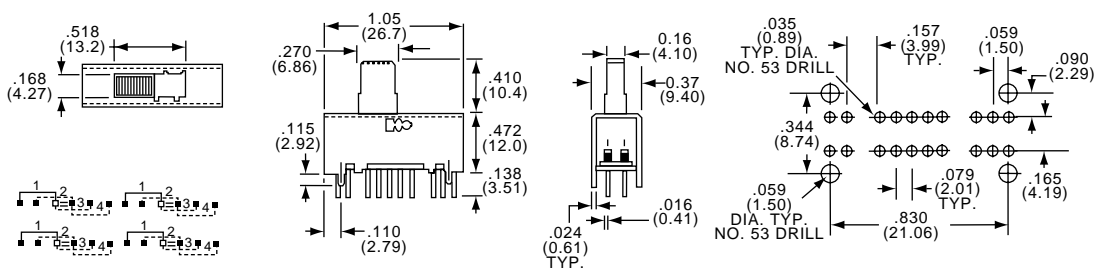
4P3T



MSSA4350R

Model	Plating	Lever Type
MSSA4350R	Silver	Rt. Angle
MSSA4350RG	Gold	Rt. Angle

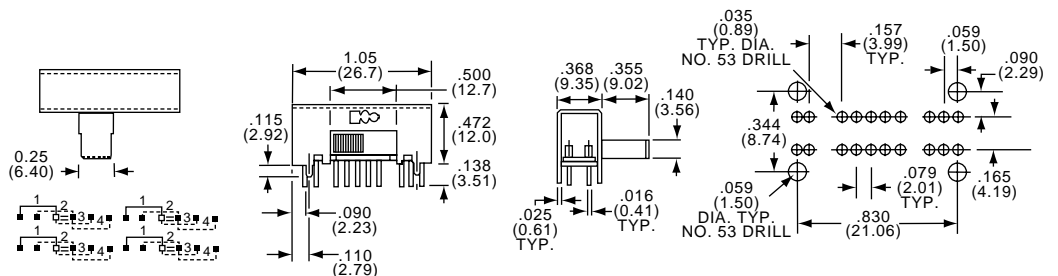
4P4T



MSSA4450

Model	Plating	Lever Type
MSSA4450	Silver	Upright
MSSA4450G	Gold	Upright

4P4T



MSSA4450R

Model	Plating	Lever Type
MSSA4450R	Silver	Rt. Angle
MSSA4450RG	Gold	Rt. Angle

Thomas & Betts

Quality & Innovation From **AUGAT** Name Brand Products

B30

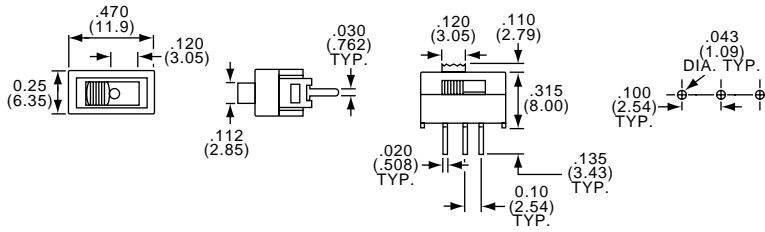
Thomas & Betts
8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

MSSA-01 & MSSA-04 Series *Instrumentation Grade Slide/PC*

SEE PAGE B31 FOR PRODUCT SPECIFICATIONS

SPDT

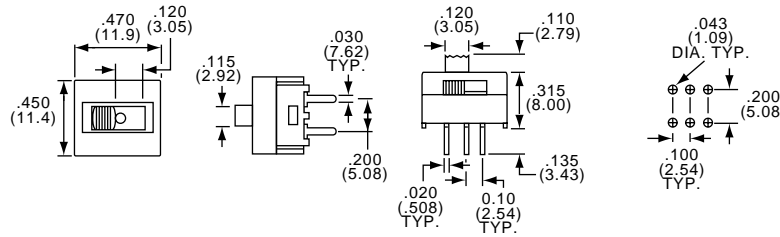
B



MSSA104D

Model	Act. Code	Pg. M8				Contacts
MSSA101DG	D		On	None	On	Gold
MSSA101EG	E		On	Off	On	Gold
MSSA104D	D		On	None	On	Silver
MSSA104E	E		On	Off	On	Silver

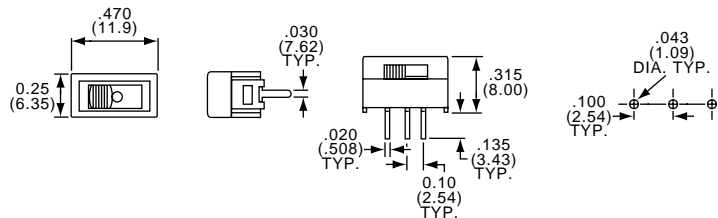
DPDT



MSSA204N

Model	Act. Code	Pg. M8				Contacts
MSSA204N	N		On	None	On	Silver

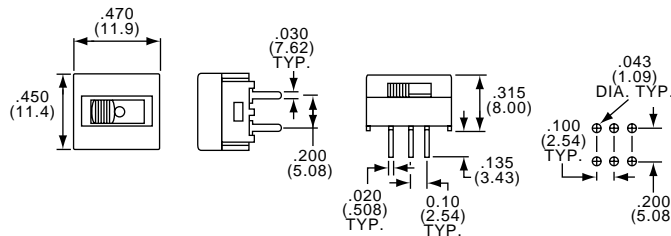
SPDT



MSSA104D1

Model	Act. Code	Pg. M8				Contacts
MSSA104D1	D		On	None	On	Silver

DPDT



MSSA204N1

Model	Act. Code	Pg. M8				Contacts
MSSA204N1	N		On	None	On	Silver
MSSA204P1	P		On	Off	On	Silver

Thomas & Betts

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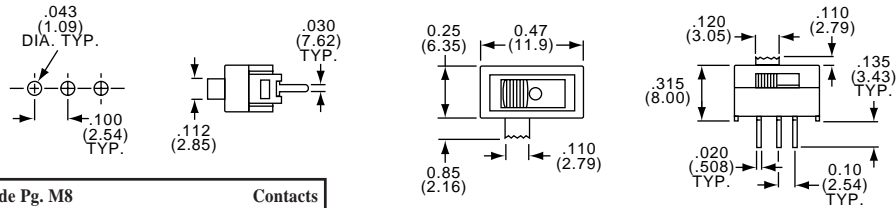
B32

Thomas & Betts
8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

Instrumentation Grade Slide/ PC or Wire Wrap **MSSA-01 & MSSA-04 Series**

SEE PAGE B31 FOR PRODUCT SPECIFICATIONS

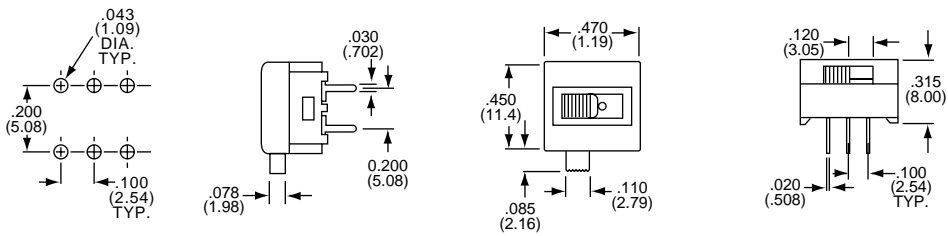
SPDT



MSSA101DGRA

Model	Act. Code	Pg. M8	Contacts		
MSSA101DGRA	D	On	None	On	Gold
MSSA101EGRA	E	On	Off	On	Gold
MSSA104DRA	D	On	None	On	Silver
MSSA104ERA	E	On	Off	On	Silver

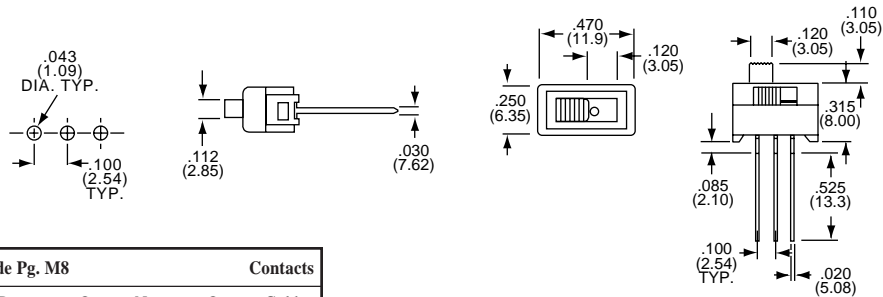
DPDT



MSSA204NRA

Model	Act. Code	Pg. M8	Contacts		
MSSA201NGRA	N	On	None	On	Gold
MSSA201PGRA	P	On	Off	On	Gold
MSSA204NRA	N	On	None	On	Silver
MSSA204PRA	P	On	Off	On	Silver

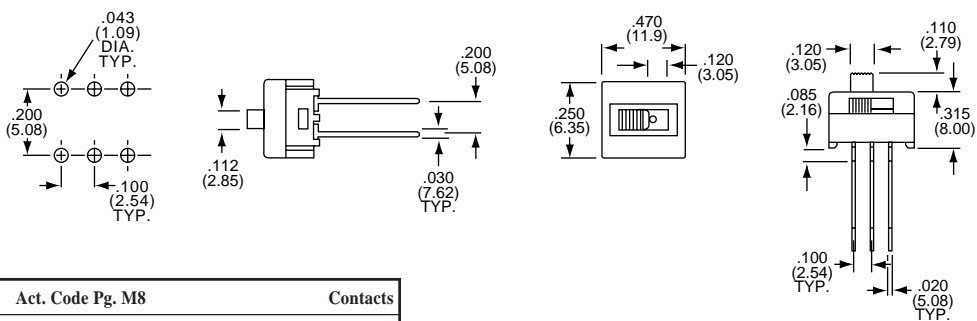
SPDT



MSSA101DGWW

Model	Act. Code	Pg. M8	Contacts		
MSSA101DGWW	D	On	None	On	Gold
MSSA101EGWW	E	On	Off	On	Gold

DPDT



MSSA201NGWW

Model	Act. Code	Pg. M8	Contacts		
MSSA201NGWW	N	On	None	On	Gold
MSSA201PGWW	P	On	Off	On	Gold

Need more technical information?

Consult your Thomas & Betts
sales office listed on the back cover

MHS Series *Low Profile/Instrumentation Grade Slide Extended Baton Style Actuator*

MATERIAL SPECIFICATIONS:

Contacts Gold or silver over copper alloy
 Frame Material Steel
 Actuator Material Polycarbonate (UL 94 V-2)
 Terminals/Fixed Contacts Gold or silver plate
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +212°F (-20°C to +100°C)
 Storage Temperature -40°F to +212°F (-40°C to + 100°C)
 Solder Heat Resistance See page M6-7
 Recommended Cleaning No chlorine base or Freon can be used.
 Aqueous or 100% ethanol.

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA 20 VDC or peak AC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Make-before-break
 Insulation Resistance 100 Megohms min.
 Dielectric Strength 500 Volts RMS @ sea level
 Actuation Force 250 Grams (+200g/-150g)
 Actuator Travel 0.079"
 Life Expectancy 15,000 Cycles
 Momentary Page B35

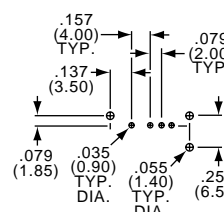
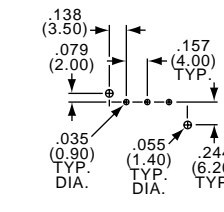
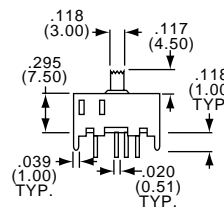
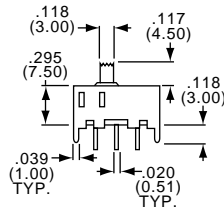
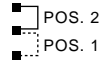
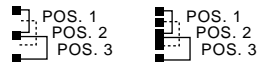
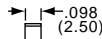
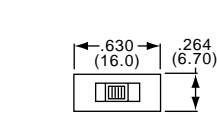
SPST/SP3T



MHS122



MHS122K



MHS122

MHS123

Standard Model	Baton Model	Type				Contacts
MHS122	MHS122K	SPDT	On	None	On	Silver
MHS123	MHS123K	SPDT	On	Off	On	Silver
MHS133	MHS133K	SP3T	On	On	On	Silver
MHS122G	MHS122KG	SPDT	On	None	On	Gold
MHS123G	MHS123KG	SPDT	On	Off	On	Gold
MHS133G	MHS133KG	SP3T	On	On	On	Gold

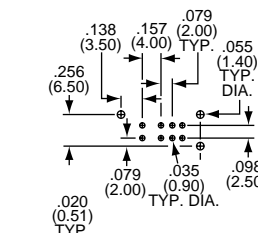
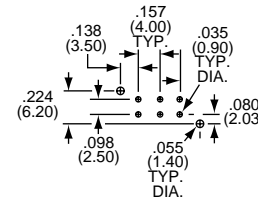
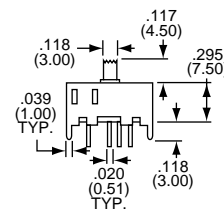
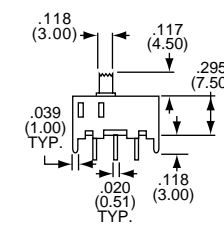
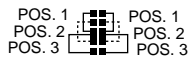
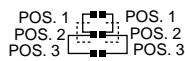
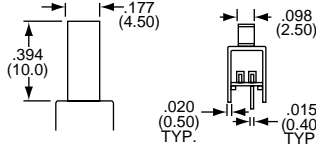
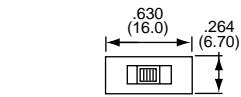
DPDT/DP3T



MHS223



MHS223K



MHS222

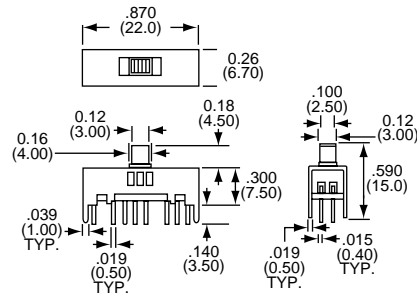
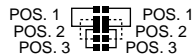
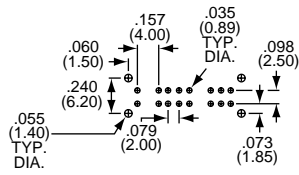
MHS223

Standard Model	Baton Model	Type				Contacts
MHS222	MHS222K	DPDT	On	None	On	Silver
MHS223	MHS223K	DPDT	On	Off	On	Silver
MHS233	MHS233K	DP3T	On	On	On	Silver
MHS222G	MHS222KG	DPDT	On	None	On	Gold

Low Profile/Vertical Instrumentation Grade Slide MHS Series

SEE PAGE B34 FOR PRODUCT SPECIFICATIONS

4P3T

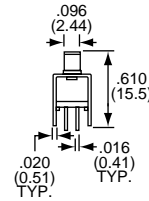
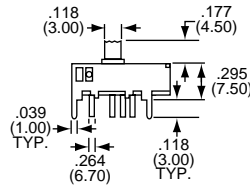
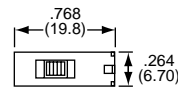
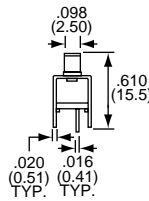
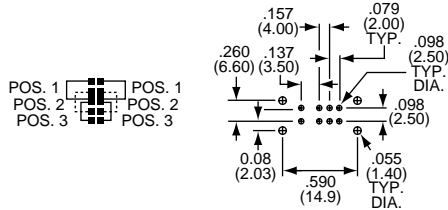
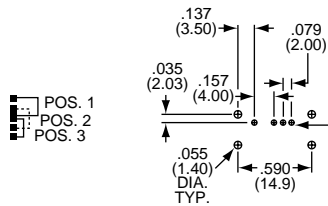


MHS433

B

Standard Model	Baton Model				Contacts
MHS433	4P3T	On	On	On	Silver

MOMENTARY



MHS233M

Standard Model	Baton Model				Contacts
MHS133M	SP3T	(On)	On	On	Silver
MHS233M	DP3T	(On)	On	On	Silver

(On) indicates momentary position

Need more technical information?
Consult your Thomas & Betts
sales office listed on the back cover

MHS Series *Low Profile/Right Angle Instrumentation Grade Slide*

SEE PAGE B34 FOR PRODUCT SPECIFICATIONS

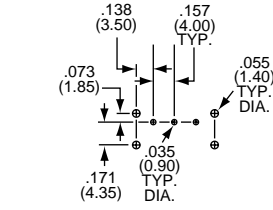
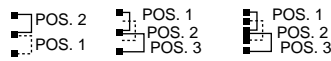
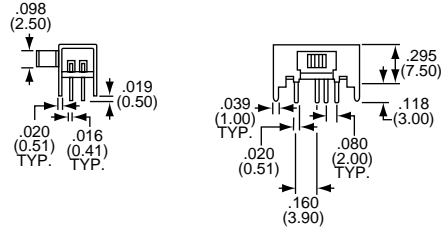
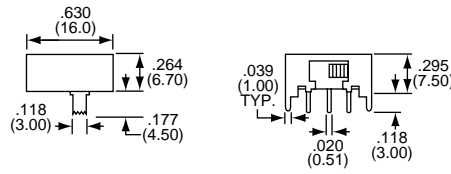
SPDT/SP3T



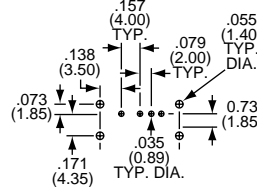
MHS122RA



MHS133GRA



MHS122/123



MHS133

Model	Type	On	None	Off	Contacts	Actuator Travel
MHS122RA	SPDT	On	None	On	Silver	.158
MHS123RA	SPDT	On	Off	On	Silver	.079
MHS133RA	SP3T	On	On	On	Silver	.079
MHS122GRA	SPDT	On	None	On	Gold	.158
MHS123GRA	SPDT	On	Off	On	Gold	.079
MHS133GRA	SP3T	On	On	On	Gold	.079

Order aluminum baton by adding suffix "K" to model number.

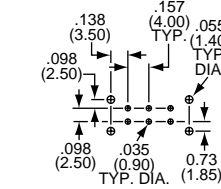
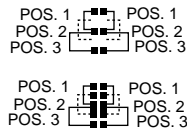
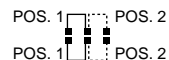
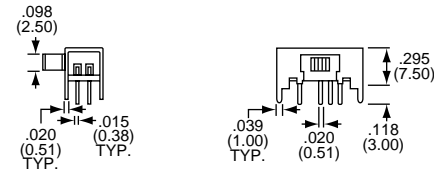
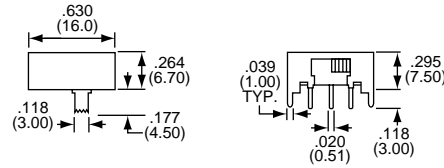
DPDT/DP3T



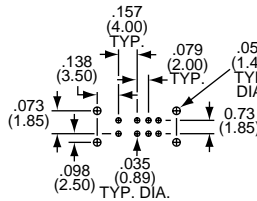
MHS222RA



MHS233GRA



MHS222/223



MHS233

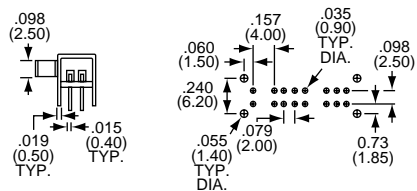
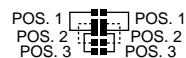
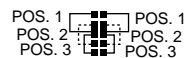
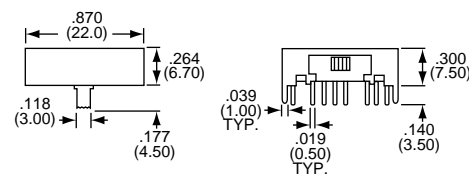
Model	Type	On	None	Off	Contacts	Actuator Travel
MHS222RA	DPDT	On	None	On	Silver	.158
MHS223RA	DPDT	On	Off	On	Silver	.079
MHS233RA	DP3T	On	On	On	Silver	.079
MHS222GRA	SPDT	On	None	On	Gold	.158
MHS233GRA	DP3T	On	On	On	Gold	.079

Order aluminum baton by adding suffix "K" to model number.

4P3T



MHS433RA



Model	Type	On	On	On	Contacts	Actuator Travel
MHS433RA	4P3T	On	On	On	Silver	.079

Instrumentation Grade Slides/Micro Size Vertical/Right Angle

SSJ Series

B

MATERIAL SPECIFICATIONS:

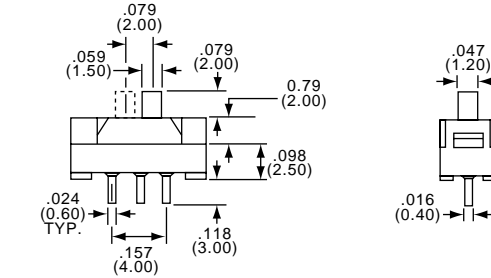
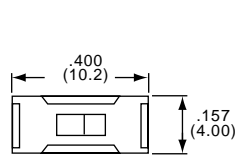
Contacts Silver plate over copper alloy
 Cover Base Material Polyester
 Actuator Material Polyacetal
 Terminals Silver plate over copper alloy
 Terminal Seal Molded in

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 100 Milliamps @ 12 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Shorting – bifurcated contacts
 Insulation Resistance 100 Megohms min.
 Dielectric Strength 500 Volts RMS @ sea level
 Actuation Force 250 Grams, (+200g, -150g)
 Actuator Travel 0.079”
 Life Expectancy 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature +14°F to +140°F (-10°C to +60°C)
 Storage Temperature -4°F to +140°F (-20°C to +60°C)
 Solder Heat Resistance 270°C+10°C, 5 seconds per MIL-STD-202, Method 210

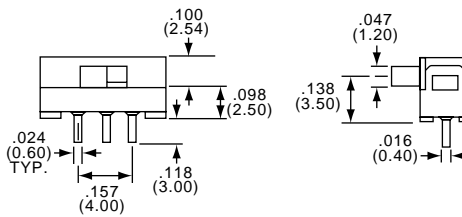
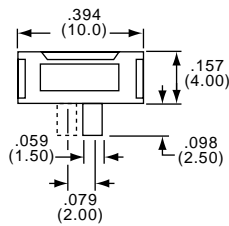


SPDT



SSJ12

Model	Plating	Lever Type
SSJ12	Silver	Upright

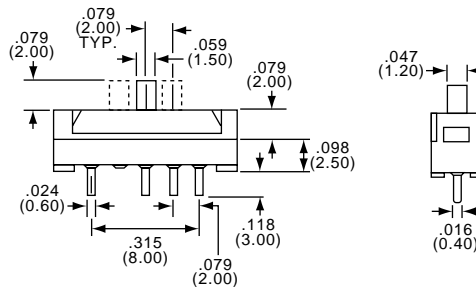


SPDT



SSJ12R

Model	Plating	Lever Type
SSJ12R	Silver	Right Angle

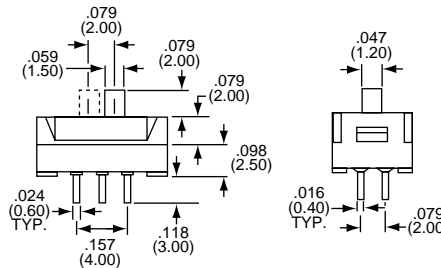
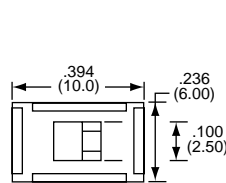


SP3T



SSJ13

Model	Plating	Lever Type
SSJ13	Silver	Upright

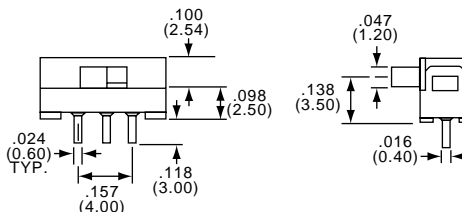
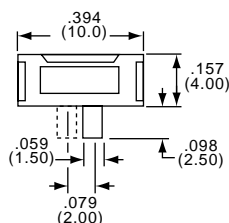


DPDT



SSJ22

Model	Plating	Lever Type
SSJ22	Silver	Upright



DPDT



SSJ22R

Model	Plating	Lever Type
SSJ22R	Silver	Right Angle

Need more technical information?

Consult your Thomas & Betts
 sales office listed on the back cover

B37

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 8155 T&B Blvd.
 Memphis, TN 38125
 (901) 252-5000 FAX (901) 252-1380

MMS Series *Micro Size/Instrumentation Grade Slide*

MATERIAL SPECIFICATIONS:

Contacts Silver plate over copper alloy
 Case Material Polyacetal
 Actuator Material Polyester
 Terminals Silver plate over copper alloy
 Terminal Seal Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 100 mA @ 30 VDC or peak AC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Shorting
 Insulation Resistance 1,000 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 200 ± 150 Grams
 Life Expectancy 10,000 Cycles

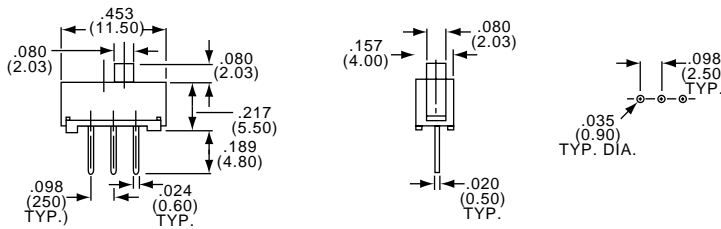
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature +14°F to +140°F (-10°C to +60°C)
 Storage Temperature +14°F to +140°F (-10°C to +60°C)
 Solder Heat Resistance 230 ± 150 grams ± 5°C for 3 seconds per MIL-STD-202, Method 210

SPDT



MMS12

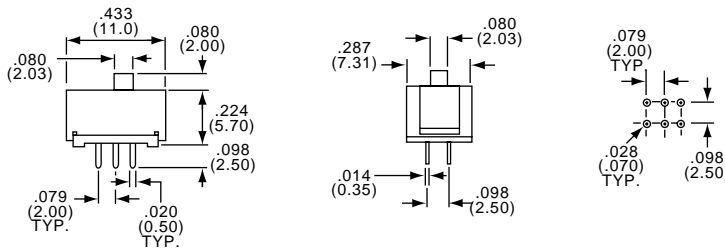


Model	Type	Plating	Lever Type
MMS12	SPDT	Silver	Upright

DPDT



MMS22

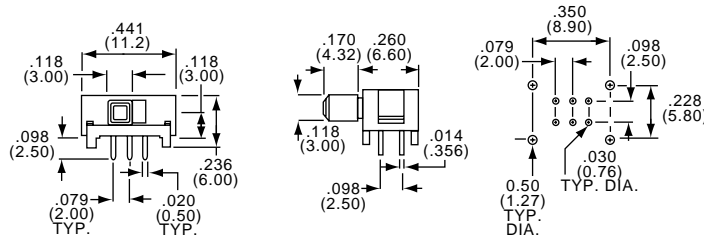


Model	Type	Plating	Lever Type
MMS22	DPDT	Silver	Upright

DPDT



MMS22R

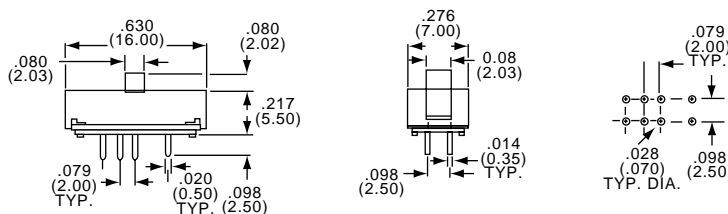


Model	Type	Plating	Lever Type
MMS22R	DPDT	Silver	Right Angle

DP3T



MMS23

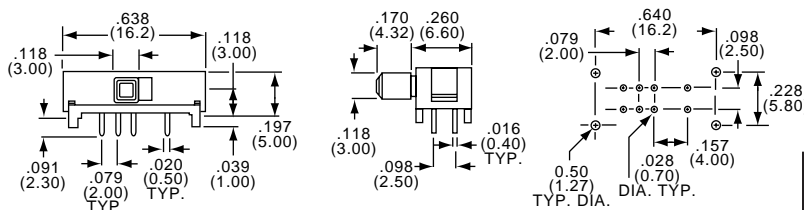


Model	Type	Plating	Lever Type
MMS23	DP3T	Silver	Upright

DP3T



MMS23R



Model	Type	Plating	Lever Type
MMS23R	DP3T	Silver	Right Angle

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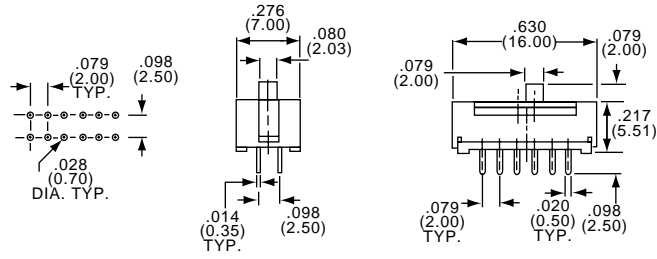
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B38

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Micro Size/Instrumentation Grade Slide MMS Series

SEE PAGE B38 FOR PRODUCT SPECIFICATIONS

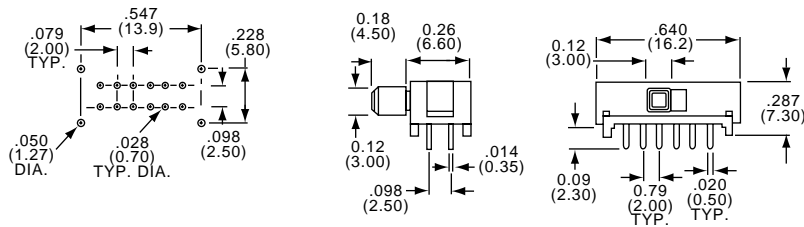


Model	Type	Plating	Lever Type
MMS42	4PDT	Silver	Upright

4PDT

MMS42

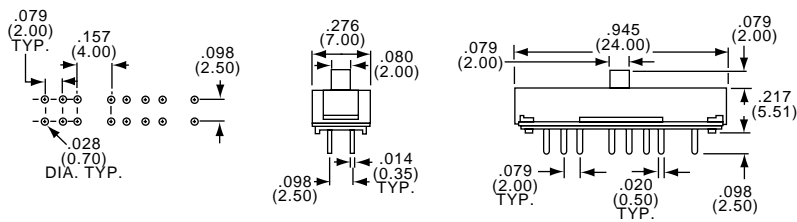
B



Model	Type	Plating	Lever Type
MMS42R	4PDT	Silver	Right Angle

4PDT

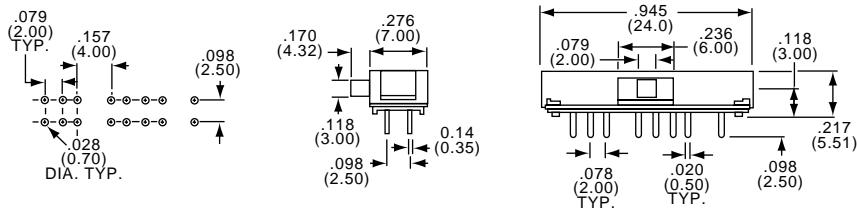
MMS42R



Model	Type	Plating	Lever Type
MMS43	4P3T	Silver	Upright

4P3T

MMS43



Model	Type	Plating	Lever Type
MMS43R	4P3T	Silver	Right Angle

4P3T

MMS43R

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

SSB Series *Micro Size/Instrumentation Grade Slide Vertical/Right Angle "Extended Actuator"*

MATERIAL SPECIFICATIONS:

Contacts Gold or silver plate over nickel plate
 Case Material Steel, tin plate
 Actuator Material Polyacetal
 Terminals Gold or silver plate over nickel plate
 Terminal Seal Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA @ 20 VDC or peak AC
 Silver: 100 mA @ 30 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Shorting
 Insulation Resistance 100 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 250 ± 150 Grams
 Life Expectancy 10,000 Cycles

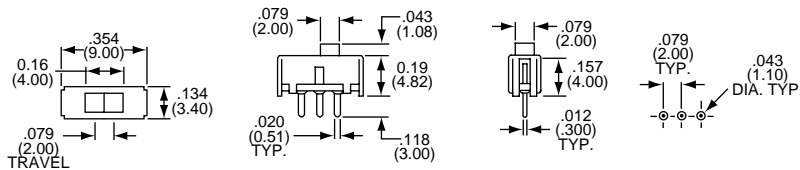
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -40°F to +212°F (-40°C to +100°C)
 Solder Heat Resistance +260°C (+500°F) for 5 seconds
 per MIL-STD-202, Method 210

SPDT



SSB12

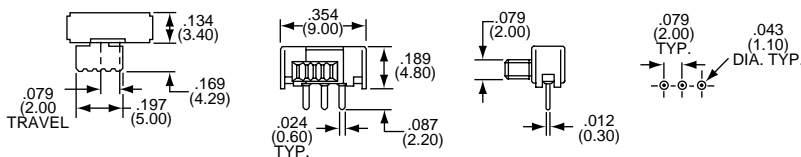


Model	Type	Plating	Lever Type
SSB12	SPDT	Silver	Upright
SSB12G	SPDT	Gold	Upright

SPDT



SSB12R

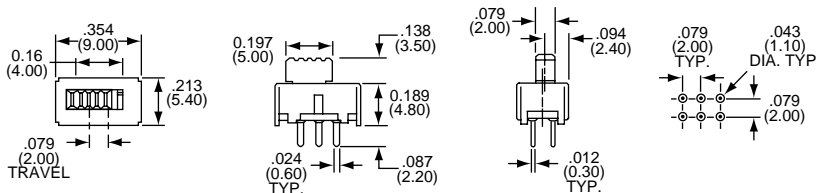


Model	Type	Plating	Lever Type
SSB12R	SPDT	Silver	Right Angle
SSB12RG	SPDT	Gold	Right Angle

DPDT



SSB22

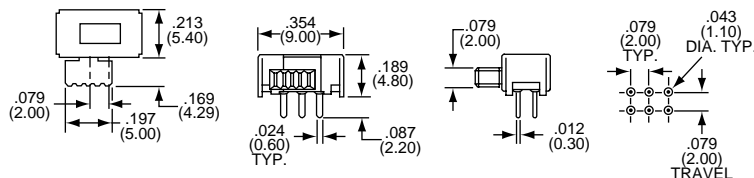


Model	Type	Plating	Lever Type
SSB22	DPDT	Silver	Upright
SSB22G	DPDT	Gold	Upright

DPDT



SSB22R

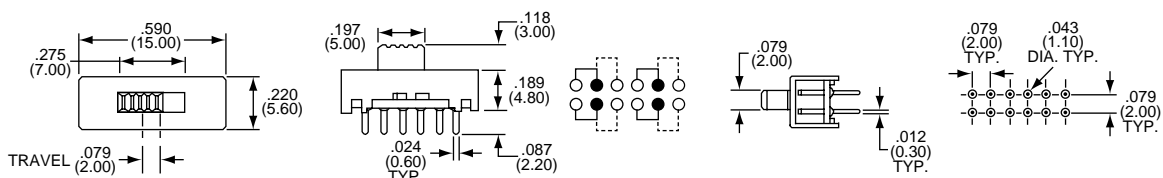


Model	Type	Plating	Lever Type
SSB22R	DPDT	Silver	Right Angle
SSB22RG	DPDT	Gold	Right Angle

4PDT



SSB42



Model	Type	Plating	Lever Type
SSB42	4PDT	Silver	Upright
SSB42G	4PDT	Gold	Upright

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B40

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Instrumentation Grade Slide/Micro Size SSA Series

MATERIAL SPECIFICATIONS:

Contacts Silver or gold plate
 Case Material Polyester
 Actuator Material Polyamide
 Cover Material Polyamide
 Terminals Silver or gold plate
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

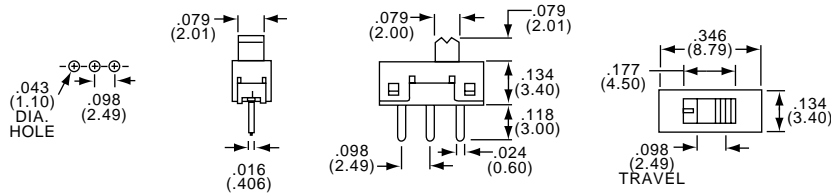
Operating Temperature -4°F to +158°F (-20°C to +70°C)
 Storage Temperature -40°F to +194°F (-40°C to +90°C)
 Solder Heat Resistance 260°C (+500°F) for 5 seconds
 per MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: 0.4 VA max. @ 20 VDC or peak AC
 Silver: 100 Milliamps @ 30 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Break-Before-Make
 Insulation Resistance 100 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 250 ± 100 Grams
 Actuator Travel098" (2.49)
 Life Expectancy 10,000 Cycles

B

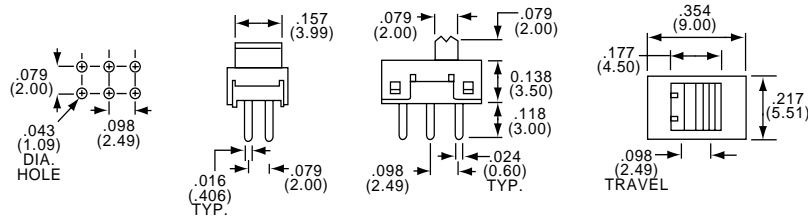
SPDT



SSA12

Model	Plating	Lever Type
SSA12	Silver	Upright
SSA12G	Gold	Upright

DPDT



SSA22

Model	Plating	Lever Type
SSA22	Silver	Upright
SSA22G	Gold	Upright

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

Multi-Position/Miniature Slide/PC SLS Series

MATERIAL SPECIFICATIONS:

Contacts Silver plate over copper alloy
 Case Material Steel
 Actuator Material Polycarbonate
 Terminals/Fixed Contacts Silver plate over brass
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

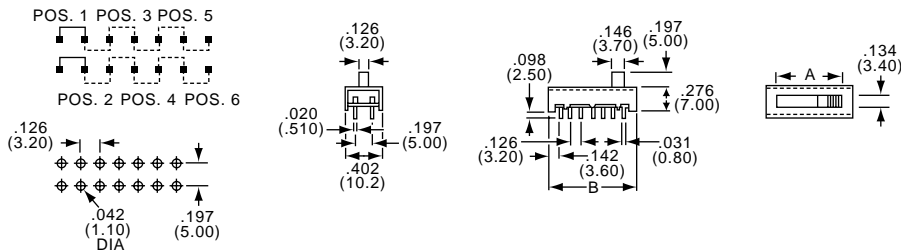
Operating Temperature 14°F to +140°F (-10°C to +60°C)
 Storage Temperature 14°F to +140°F (-10°C to +60°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 250 mA @ 125 VAC, 150 mA @ 12 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Break before make
 Insulation Resistance 500 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 250 Grams + 150 - 100
 Actuator Travel126" (3.20)
 Life Expectancy 10,000 Cycles

B

2 TO 6 POSITIONS

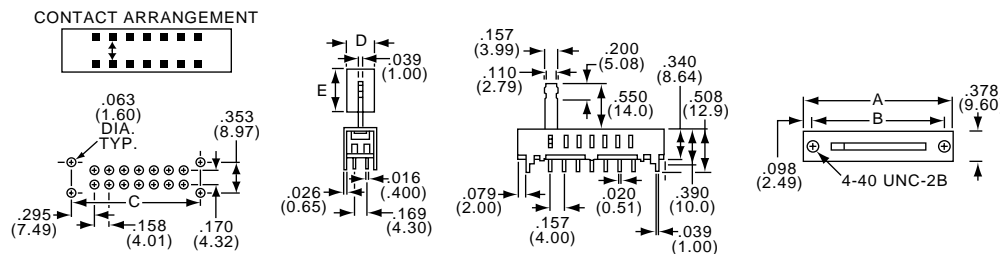


Model	Type	Dim.A	Dim.B
SLS220PC	2 Positions	.272(6.91)	.535(13.59)
SLS230PC	3 Positions	.398(10.11)	.661(16.79)
SLS240PC	4 Positions	.524(13.31)	.787(19.99)
SLS250PC	5 Positions	.650(16.51)	.913(23.19)
SLS260PC	6 Positions	.776(19.71)	1.039(26.39)

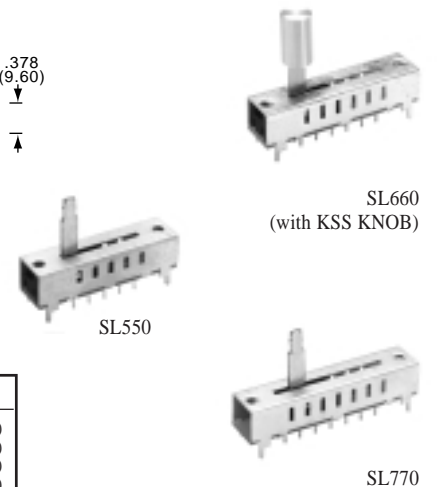


Multi-Position/PC Terminals/Silver Plate Contacts Standard SL Series

2 TO 10 POSITIONS



Model	Type	Dim. A	Dim. B	Dim. C	Knob Model	Description	Dim. D	Dim. E
SL220	2 Positions	.95(24.13)	.750(19.05)	.750(19.05)	KSS10A	Aluminum-Clear Anodize	.270(6.86)	.500(12.70)
SL330	3 Positions	1.11(28.19)	.910(23.1)	.910(23.1)	KSS10B	Aluminum-Black Anodize	.270(6.86)	.500(12.70)
SL550	5 Positions	1.42(36.07)	1.22(30.99)	1.22(31.1)	KSS20A	Aluminum-Clear Anodize	.305(7.75)	.512(13.00)
SL660	6 Positions	1.58(40.13)	1.38(35.05)	1.38(35.1)	KSS20B	Aluminum-Black Anodize	.305(7.75)	.512(13.00)
SL770	7 Positions	1.74(44.20)	1.54(39.12)	1.54(39.1)				
SL880	8 Positions	1.89(48.01)	1.70(43.18)	1.70(43.1)				
SL1000	10 Positions	2.21(56.13)	2.01(51.05)	2.01(51.5)				



Need more technical information?
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SLS/SLSA Series *Consumer Grade Slide*

MATERIAL SPECIFICATIONS:

Contacts Silver plate
 Case Material Steel
 Actuator Material Phenolic
 Terminals/Fixed Contacts Silver plate
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to + 185°F (-20°C to + 85°C)
 Storage Temperature -40°F to + 212°F (-40°C to + 100°C)
 Solder Heat Resistance +300°C (+572°F) for 5 seconds

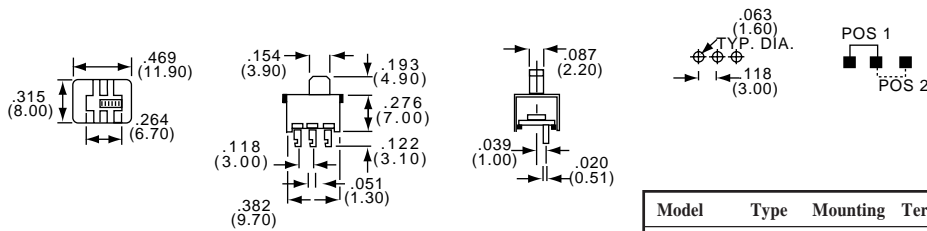
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 500 mA @ 125 VAC, 200 mA @ 12 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Break before make
 Insulation Resistance 500 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 150-500 Grams
 Plunger/Actuator Travel:106 (2.69)
 Life Expectancy 10,000 Cycles

SPDT



SLS1201

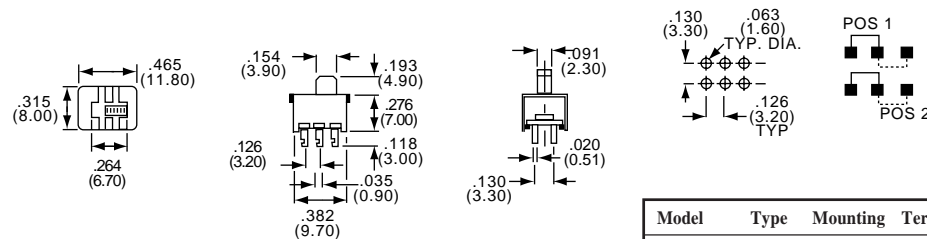


Model	Type	Mounting	Terminals	Contacts
SLS1201	SPDT	Less Tabs	Lug, Silver Plated	

DPDT



SLS2201

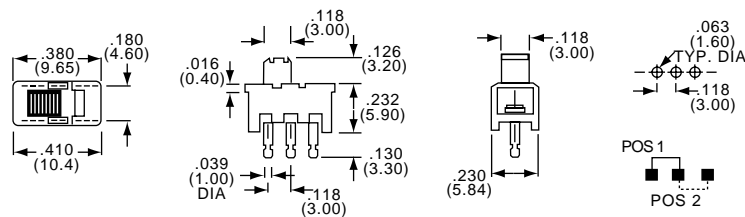


Model	Type	Mounting	Terminals	Contacts
SLS2201	DPDT	Less Tabs	Lug, Silver Plated	

SPDT



SLSA1201

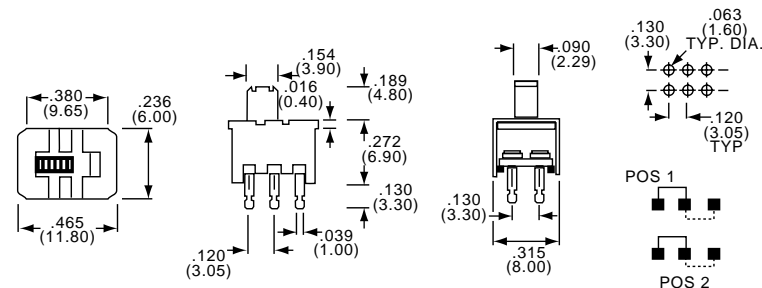


Model	Type	Mounting	Terminals	Contacts
SLSA1201	SPDT	Less Tabs	Turret, Silver Plated	

DPDT



SLSA2201



Model	Type	Mounting	Terminals	Contacts
SLSA2201	DPDT	Less Tabs	Turret, Silver Plated	

Rolling Contact/Economy Grade Miniature Slide SLS/SLS-PC Series

B

MATERIAL SPECIFICATIONS:

Contacts Silver over nickel plate over copper alloy
 Case Material Tin plate over steel
 Actuator Material Polycarbonate
 Terminals/Fixed Contacts Silver over nickel plate over copper alloy

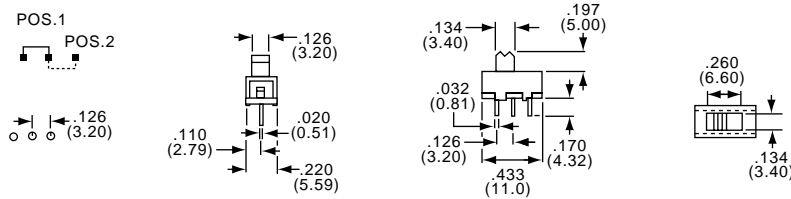
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 250 mA @ 125 VAC, 150 mA @ 12 VDC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Break before make
 Insulation Resistance 500 Megohms min.
 Dielectric Strength 500 VAC
 Actuation Force 150 to 400 Grams
 Actuator Travel 0.126" (3.20)
 Life Expectancy 6,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature 14°F to +140°F (-10°C to +60°C)
 Storage Temperature 14°F to +140°F (-10°C to +60°C)

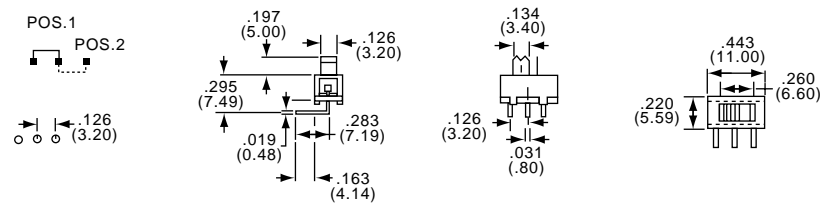
SPDT



SLS121PC

Model	Mounting
SLS121PC	Printed Circuit

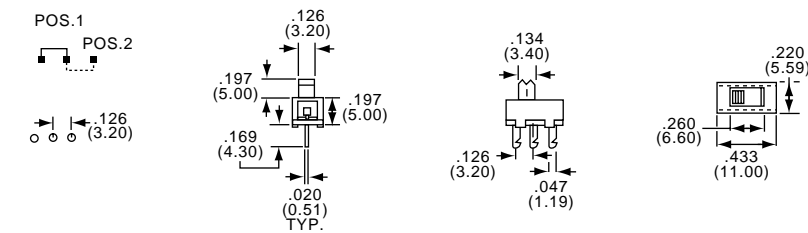
SPDT



SLS121RA

Model	Mounting
SLS121RA	Right Angle PC

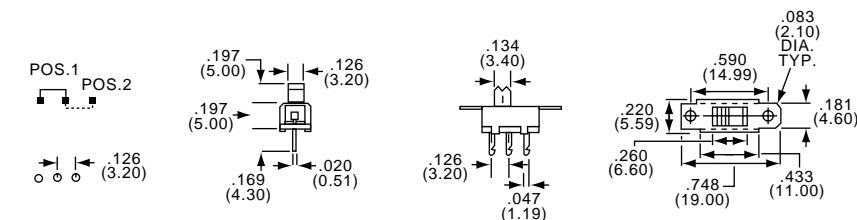
SPDT



SLS1211

Model	Mounting
SLS1211	Printed Circuit

SPDT



SLS121

Model	Mounting
SLS121	Panel Mounted

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

SLS/SLS-PC Series *Rolling Contact/Economy Grade Miniature Slide*

MATERIAL SPECIFICATIONS:

Contacts Silver plate
 Case Material Steel
 Actuator Material Polycarbonate
 Terminals/Fixed Contacts Silver over nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 4 VA @ 20 VDC or peak AC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-Before-Make
 Insulation Resistance >50 Megohms.
 Dielectric Strength 500 Volts RMS @ sea level
 Actuation Force 340 ± 57 Grams
 Plunger/Actuator Travel:260" to .512"
 Life Expectancy >10,000 Cycles at no load

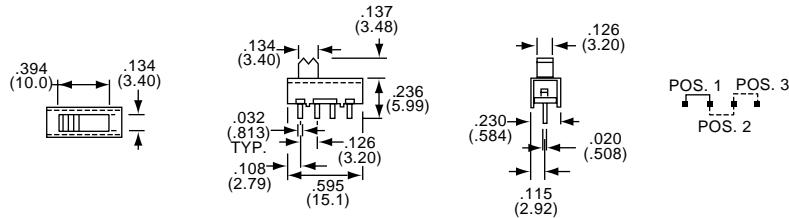
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature +14°F to +140°F
 Storage Temperature +14°F to +140°F (-10°C to +60°C)
 Solder Heat Resistance +260°C for 5 seconds

SP3T



SLS131PC

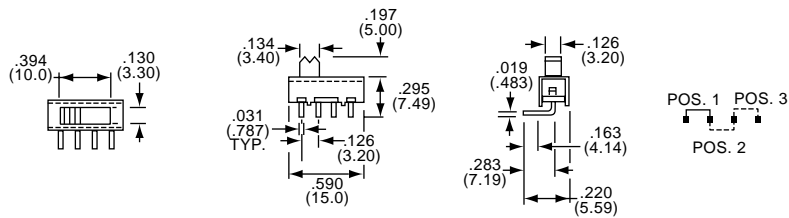


Model	Mounting
SLS131PC	Printed Circuit

SP3T



SLS131RA

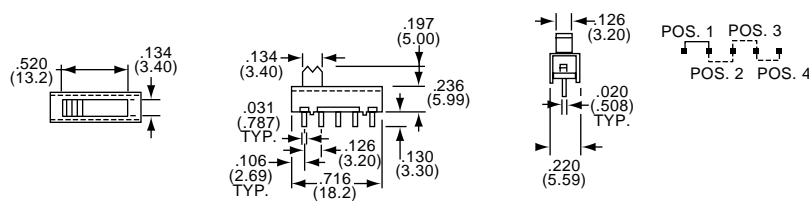


Model	Mounting
SLS131RA	Right Angle PC

SP4T



SLS141PC

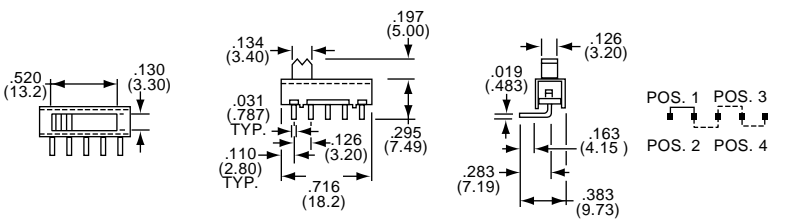


Model	Mounting
SLS141PC	Printed Circuit

SP4T



SLS141RA

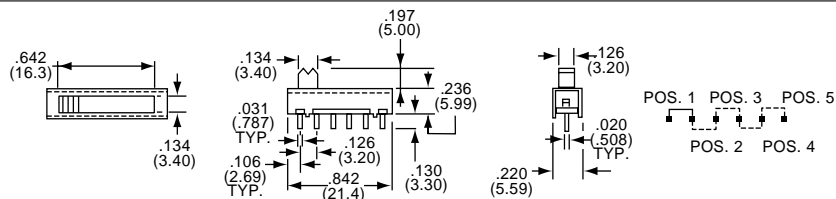


Model	Mounting
SLS141RA	Right Angle PC

SP5T



SLS151PC

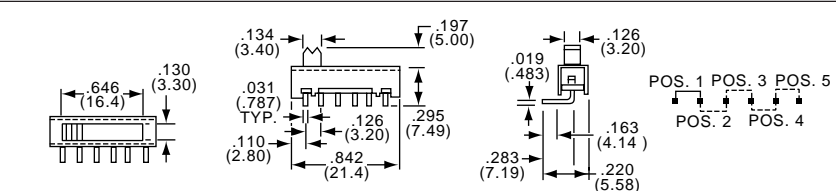


Model	Mounting
SLS151PC	Printed Circuit

SP5T



SLS151RA



Model	Mounting
SLS151RA	Right Angle PC

CST Series *Multi-Pole "Baton Toggle/PC"*

MATERIAL SPECIFICATIONS:

Contacts Silver plated copper alloy
 Case Material Steel, tin plate
 Actuator Material ABS plastic
 Terminals/Fixed Contacts Silver plated copper alloy
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -15°C to +55°C) (+5°F to +131°F)
 Solder Heat Resistance Hand: 300°C for 3 seconds
 Wave: 250°C for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

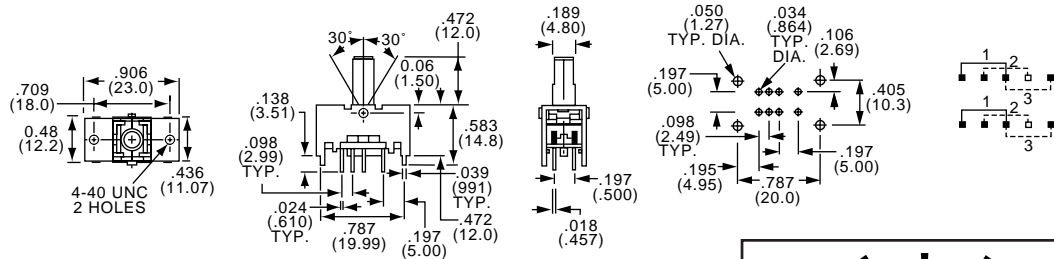
Contact Rating 300 mA @ 125 VAC, 200 mA @ 12VDC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-Before-Make
 Insulation Resistance >100 Megohms.
 Dielectric Strength 500 Volts RMS @ sea level
 Actuation Force 200-650 Grams
 Plunger/Actuator/Travel: 30°
 Life Expectancy 10,000 Cycles

B

DP3T



CST023NK

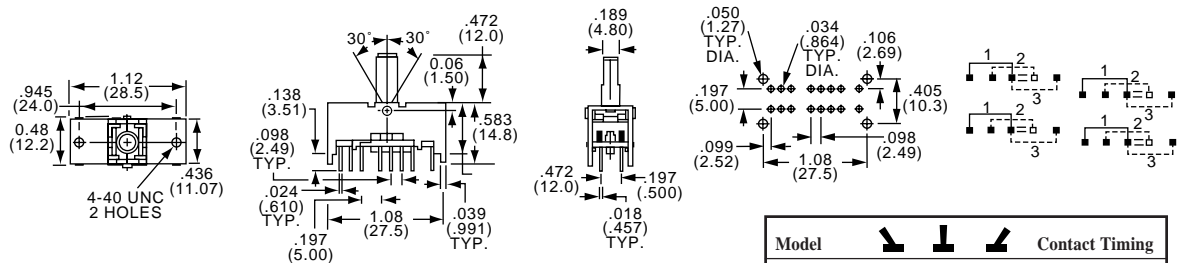


Model				Contact Timing
CST023NK	On	On	On	Non Shorting

4P3T



CST043NK

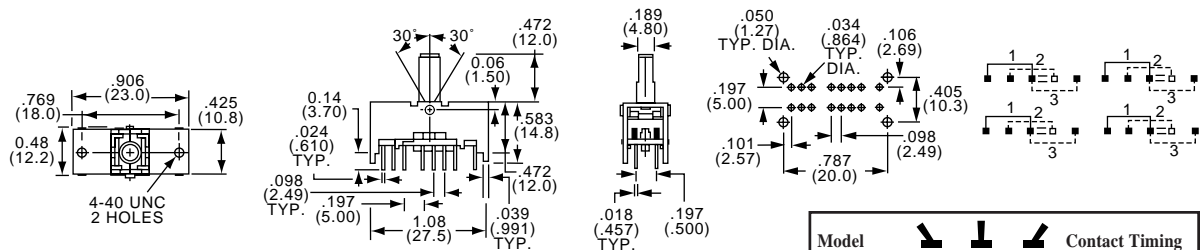


Model				Contact Timing
CST043NK	On	On	On	Non Shorting

4PDT



CST042NK

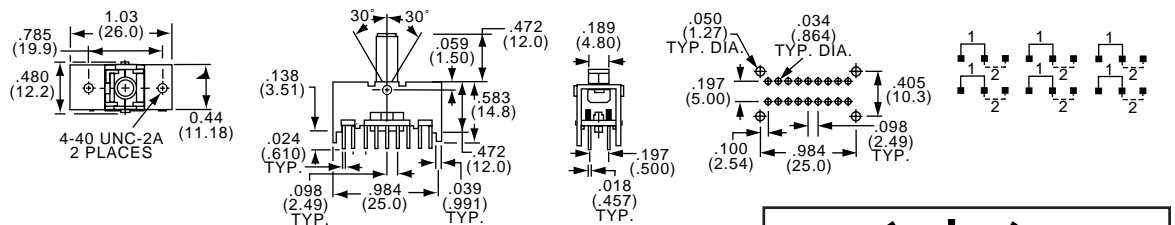


Model				Contact Timing
CST042NK	None	On	On	Non Shorting

6P2T



CST062NK



Model				Contact Timing
CST062NK	None	On	On	Non Shorting

Miniature Slide Switch Right Angle Surface Mount MLL Series

MATERIAL SPECIFICATIONS:

Contacts BeCu, 1 micron silver plate
 Case Material 40% G.F. PPS, UL94V-0
 Frame Stainless steel, silver plated
 Actuator Material 30% G.F. 4/6 nylon, UL94HB
 Terminals Brass, 1 micron silver plate
 Terminal Seal Epoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

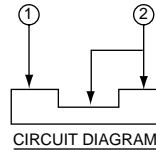
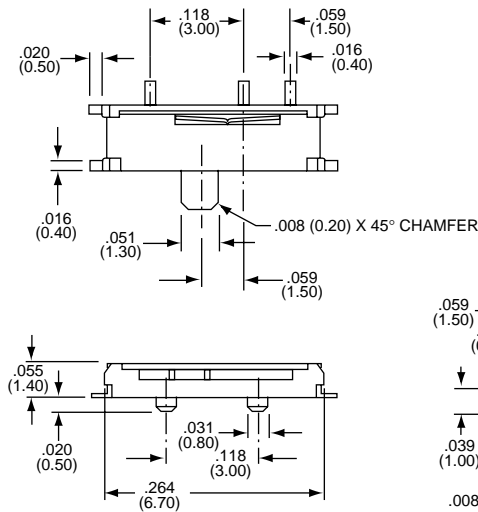
Contact Rating 0.3 Amp, 4 VDC
 Initial Contact Resistance 70 Milliohms
 Insulation Resistance 100 Megohms min.
 Dielectric Strength 100 VAC min.
 Actuation Force 175 ±100 Grams
 Life Expectancy 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

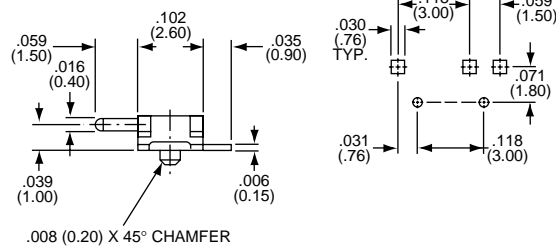
Solder Heat Resistance Humidity: MIL-STD-202, Method 103, Condition B
 Moisture Resistance: MIL-STD-202, Method 106
 Thermal Shock: MIL-STD-202, Method 107, Condition A.

NEW

SPDT

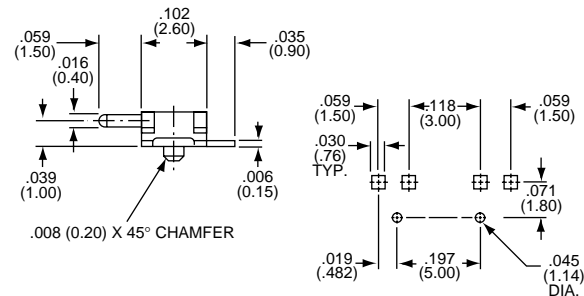
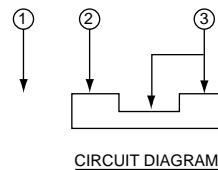
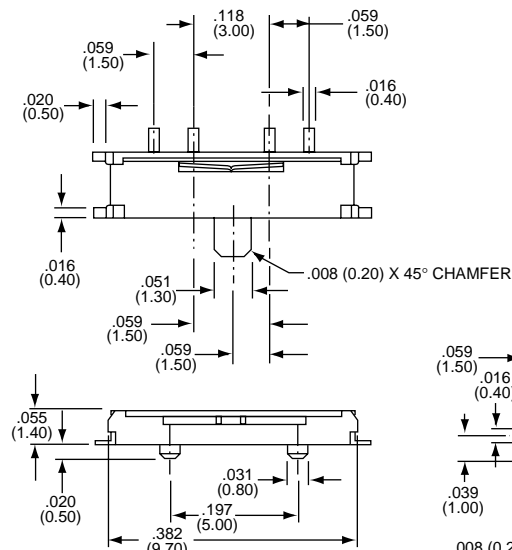


MLL1200S



Model	Type
MLL1200S	SPDT

SP3T



Model	Type
MLL1300S	SP3T

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Consult your Thomas & Betts sales office listed on the back cover

B49

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