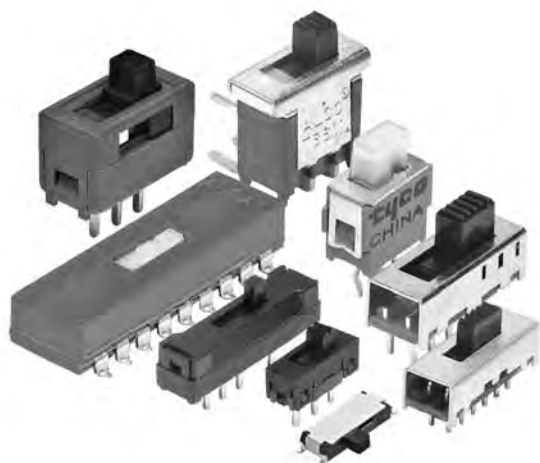


Product Range



Slide Switches

■ **Telecom grade applications:**

AS Series

■ **Instrumentation grade applications:**

AS-, SSA-, SSB-, SSJ-, MSSA . 01/04-, MMS-, TSS-, MHS-, MSS-, MSSA-, SDS-, STS-, CTS-, MLL-, A68 Series

■ **Consumer grade applications:**

S + SE-, SLS + SLSA-, STSA- Series

■ **Economy grade applications:**

SLS-Series

Main features:

- Up to 6 poles
- Up to 60.000 operations
- Silver or gold contacts, bifurcated double wipe contact versions
- Break-before-make or Make-before-break contact timing
- Sealed or unsealed, plastic or steel housings
- Micro sized versions
- Low profile versions
- Right angle versions
- Panel mount versions
- Different actuator styles
- Single or dual actuator
- SMT, THT, lug and turret terminals
- 2.54 mm or 5.08 mm terminal spacing
- Decorative versions



AS Series, Instrumentation and Telecom Grade, THT & SMTpage B2



S & SE Series, Sealed & Unsealed, THT & SMTpage B11



SSA Series, Micro Size, Instrumentation Grade, THTpage B14

Product Range (Continued)



SSB Series, Micro Size, Instrumentation Grade, THTpage B16



SSJ Series, Micro Size, Instrumentation Grade, THTpage B18



SLS Series, Miniature, Rolling Contact, Economy Grade, THTpage B20



SL Series, PC Tails, Consumer Grade, THTpage B23



SLS & SLSA Series, Panel Mount, Consumer, THTpage B25



SLS Series, PC Tails, Consumer Grade, THTpage B28



STS Series, Miniature, Low Profile, THTpage B30



STSA Series, Miniature, Low Profile, THTpage B34



MSSA . 01/04 Series, Instrumentation Grade, THTpage B36

Product Range (Continued)



MMS Series, Micro Size, Instrumentation Grade, THTpage B40



TSS Series, Single or Dual Actuator, THTpage B43



MHS Series, Low Profile, Instrumentation Grade, THTpage B48



MSS Series, Instrumentation Grade, THTpage B52



MSSA Series, Instrumentation Grade, THTpage B58



SDS Series, Decorative Instrument Grade, THTpage B64



CST Series, Baton Toggle, THTpage B67



MLL Series, Micro Size, Low Profile, SMTpage B70

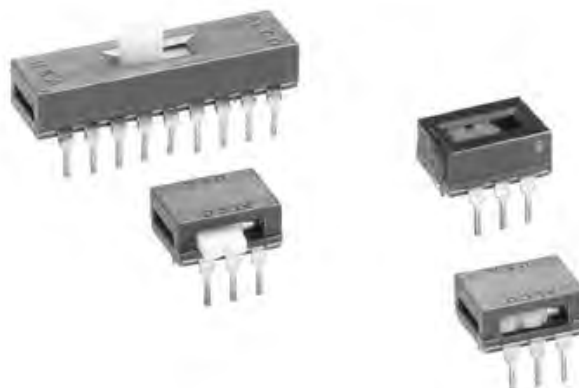


A68 Series, Instrumentation Grade, THTpage B72

AS Series, Instrumentation and Telecom Grade, THT & SMT

Features

- Unique design enables aqueous or solvent cleaning
- Auto insertable
- ASF-package with flush actuator allows auto insertion on standard IC equipment. Standard tape seal and closed case construction provide process seal
- ASE-package with extended actuator, open ended case allows washout after process cleaning
- 2, 4 & 6 pole versions available with top or side actuation.
- Bifurcated double wipe contact design provide dependable, telecom grade switching
- Industry standard 2.54 (.100) x 7.62 (.300) terminal spacing



Typical performance characteristics

Contact rating, gold 0.4 VA @ 20 VDC or peak AC (shorting)
Contact rating, silver 300 mA @ 115 VAC or 28 VDC
Electrical life 15,000 cycles
Mechanical life 15,000 cycles
Contact resistance max 40 mOhm
Insulation resistance min 1000 MOhm
Dielectric strength 600 VAC for 1 min
Actuation force 8.50 N (850 gf) max
Actuator travel 2.54 mm (.100) average

Environmental specification

Operating temperature -40 to +80°C
Storage temperature -40 to +80°C
Solder heat resistance 265°C/10s wave or 260°C/10s reflow

Material specifications

Contacts copper alloy gold or silver finish
Actuator nylon
Terminals copper alloy tin finish
Base pct
Cover pct
Tape polyimide
RoHS Directive 2002/95/EC compliant

Product key		Typical product key									
		AS		E		2		2		G	
Type		AS									
Actuator											
No of poles											
No of throws											
Actuation											
Contact finish											
Termination											
Packaging											
Material											

AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

E Extended actuator

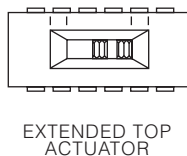


Code	Type	Dim A
ASE22	DPDT	10.2mm (.400)
ASE42	4PDT	17.8mm (.700)
ASE43	4P3T	27.9mm (1.10)
ASE62	6PDT	25.4mm (1.00)

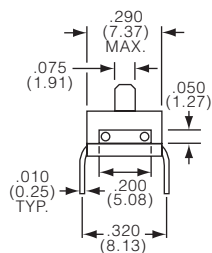
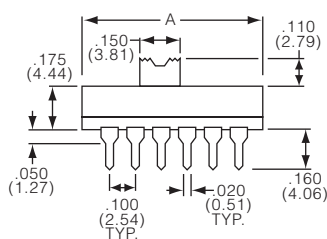
Upright, through hole



ASE62G



EXTENDED TOP ACTUATOR

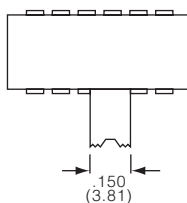


Right angle, through hole

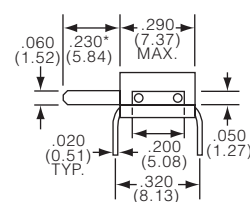
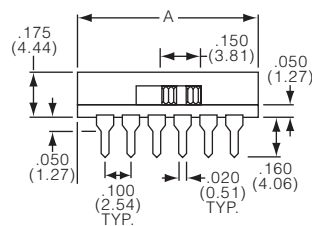


ASE22R

EXTENDED SIDE ACTUATOR

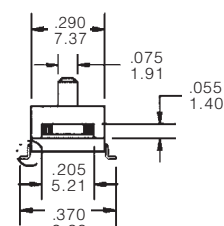
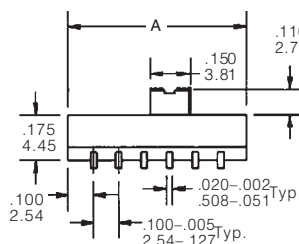
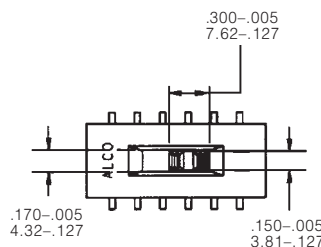


.150 (3.81)

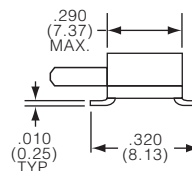
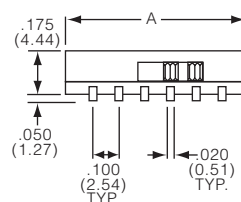
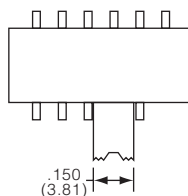


*.105 (2.67) ASE22R, ASE22RG

Upright, gullwing surface mount

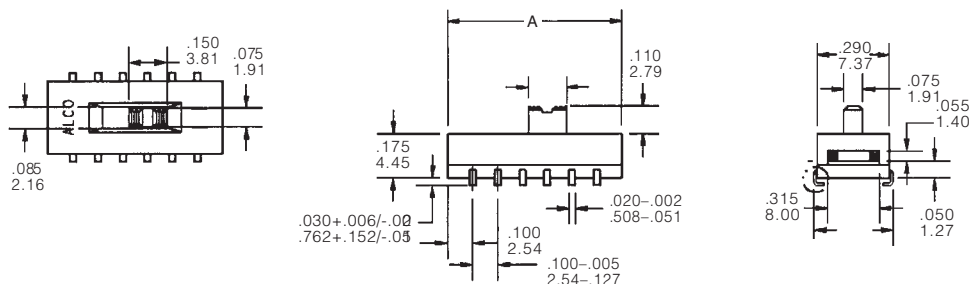


Right angle, gullwing surface mount

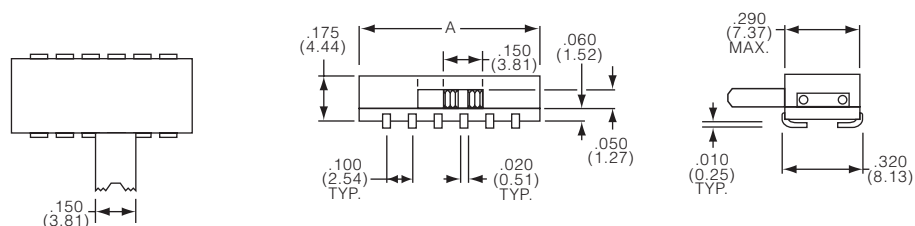


AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

Upright, J-lead surface mount



Right angle, J-lead surface mount

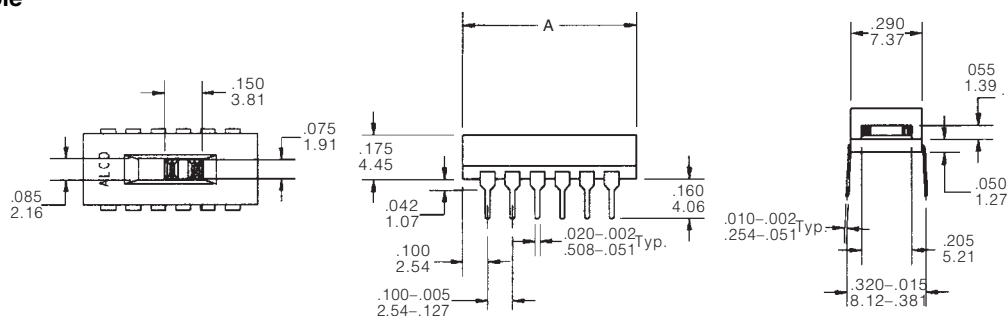


F Flush actuator

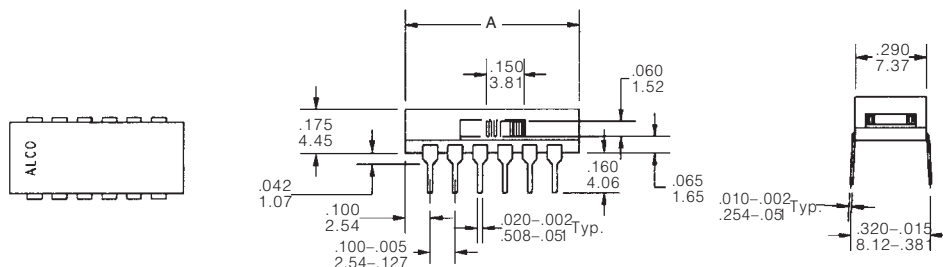


Code	Type	Dim A
ASF22	DPDT	10.2mm (.400)
ASF42	4PDT	17.8mm (.700)
ASF43	4P3T	27.9mm (1.10)
ASF62	6PDT	25.4mm (1.00)

Upright, through hole

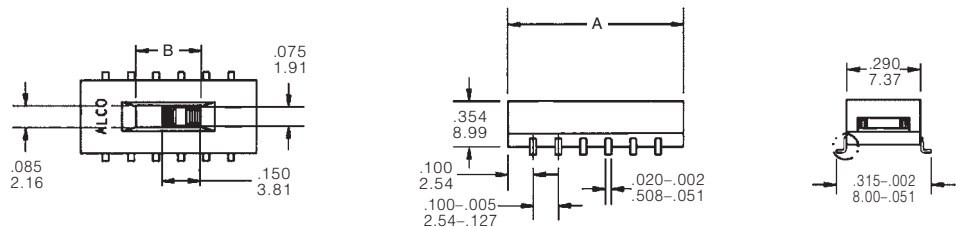


Right angle, through hole

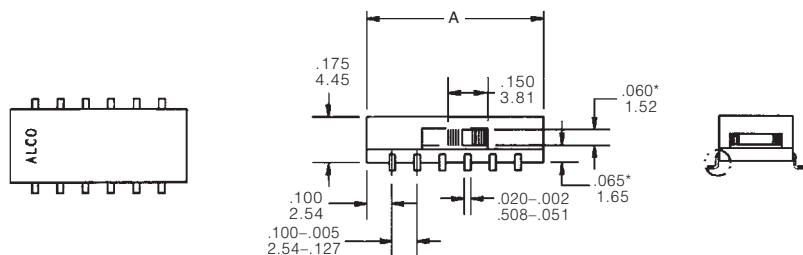


AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

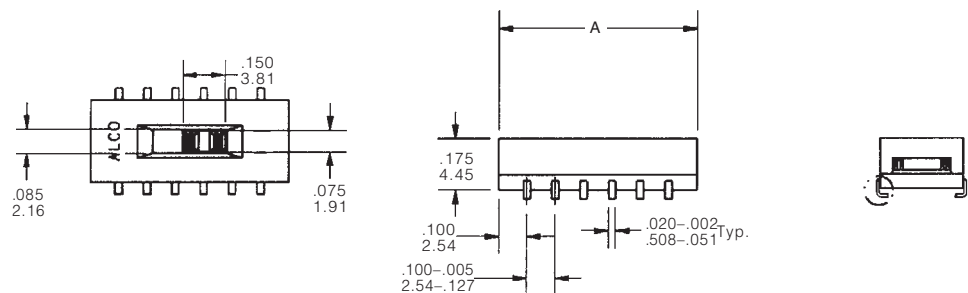
Upright, gullwing surface mount



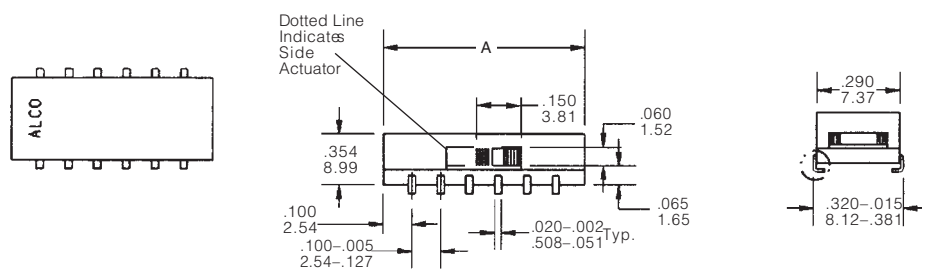
Right angle, gullwing surface mount



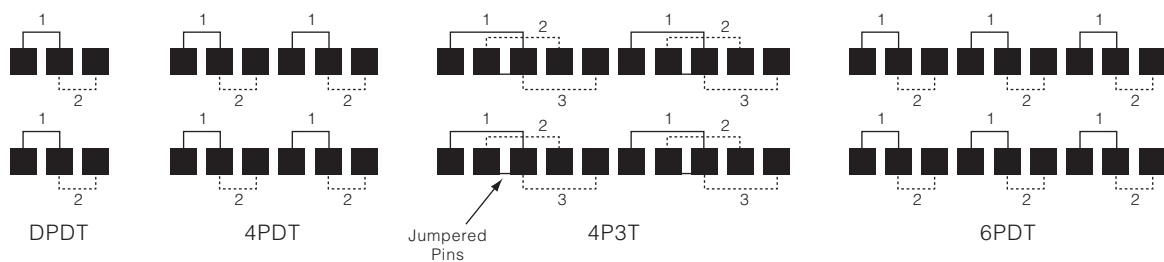
Upright, J-lead surface mount



Right angle, J-lead surface mount

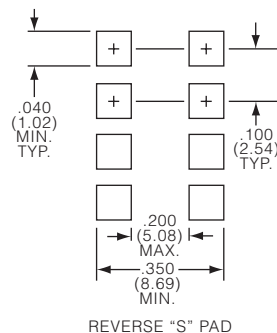
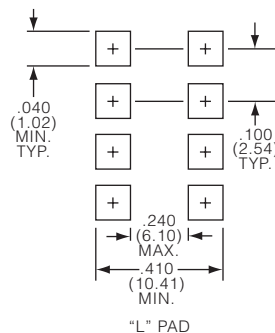
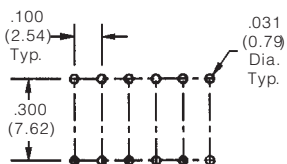


Circuit diagrams



AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

PCB layout



AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

Product key	Actuator	Poles	Throws	Actuation	Contacts	Termination	Packaging	Material	Part Number
ASE2204	extended	double	2 throws	top	silver	THT	tube	RoHS	1825010-1
ASE22G04	actuator	pole		actuator	gold			compliant	1825010-2
ASE22GL04						gullwing			1825010-5
ASE22GS04						J-lead			1825010-7
ASE22L04					silver	gullwing			1825010-6
ASE22R04				side		THT			1825010-3
ASE22RG04				actuator	gold				1825010-4
ASE22RGL04						gullwing			1825010-9
ASE22RGS04						J-lead			1-1825010-1
ASE22RL04					silver	gullwing			1-1825010-0
ASE22RS04						J-lead			1-1825010-2
ASE22S04				top					1825010-8
ASE4204		4 pole		actuator		THT			1-1825010-3
ASE42G04					gold				1-1825010-4
ASE42GL04						gullwing			1-1825010-7
ASE42GS04						J-lead			1-1825010-9
ASE42L04					silver	gullwing			1-1825010-8
ASE42R04				side		THT			1-1825010-5
ASE42RG04				actuator	gold				1-1825010-6
ASE42RGL04						gullwing			2-1825010-1
ASE42RGS04						J-lead			2-1825010-3
ASE42RL04					silver	gullwing			2-1825010-2
ASE42RS04						J-lead			2-1825010-4
ASE42S04				top					2-1825010-0
ASE4304			3 throws	actuator		THT			2-1825010-5
ASE43G04					gold				2-1825010-6
ASE43GL04						gullwing			2-1825010-9
ASE43GS04						J-lead			3-1825010-1
ASE43L04					silver	gullwing			3-1825010-0
ASE43R04				side		THT			2-1825010-7
ASE43RG04				actuator	gold				2-1825010-8
ASE43RGL04						gullwing			3-1825010-3
ASE43RGS04						J-lead			3-1825010-5
ASE43RL04					silver	gullwing			3-1825010-4
ASE43RS04						J-lead			3-1825010-6
ASE43S04				top					3-1825010-2
ASE6204		6 pole	2 throws	actuator		THT			3-1825010-7
ASE62G04					gold				3-1825010-8
ASE62GL04						gullwing			4-1825010-1
ASE62GS04						J-lead			4-1825010-3
ASE62L04					silver	gullwing			4-1825010-2
ASE62R04				side		THT			3-1825010-9
ASE62RG04				actuator	gold				4-1825010-0
ASE62RGL04						gullwing			4-1825010-5
ASE62RGS04						J-lead			4-1825010-7
ASE62RL04					silver	gullwing			4-1825010-6
ASE62RS04						J-lead			4-1825010-8
ASE62S04				top a.					4-1825010-4

Preferred parts in bold print

Product key	Actuator	Poles	Throws	Actuation	Contacts	Termination	Packaging	Material	Part Number
ASF2204	flush	double	2 throws	top	silver	THT	tube	RoHS	1825011-1
ASF22G04	actuator	pole		actuator	gold			compliant	1825011-2
ASF22GL04						gullwing			1825011-5
ASF22GLTR04							tape & reel		1825011-6
ASF22GS04						J-lead	tube		1825011-9
ASF22GSTR04							tape & reel		1-1825011-0
ASF22L04					silver	gullwing	tube		1825011-7
ASF22LTR04							tape & reel		1825011-8
ASF22R04				side		THT	tube		1825011-3
ASF22RG04				actuator	gold				1825011-4
ASF22RGL04						gullwing			1-1825011-3
ASF22RGLTR04							tape & reel		1-1825011-4
ASF22RGS04						J-lead	tube		1-1825011-7
ASF22RGSTR04							tape & reel		1-1825011-8
ASF22RL04					silver	gullwing	tube		1-1825011-5
ASF22RLTR04							tape & reel		1-1825011-6
ASF22RS04						J-lead	tube		1-1825011-9
ASF22RSTR04							tape & reel		2-1825011-0
ASF22S04				top			tube		1-1825011-1
ASF22STR04				actuator			tape & reel		1-1825011-2

Preferred parts in bold print

AS Series, Instrumentation and Telecom Grade, THT & SMT (Continued)

Slide Switches

Product key	Actuator	Poles	Throws	Actuation	Contacts	Termination	Packaging	Material	Part Number
ASF4204	flush	4 pole	2 throws	top	silver	THT	tube	RoHS	2-1825011-1
ASF42G04	actuator			actuator	gold			compliant	2-1825011-2
ASF42GL04						gullwing			2-1825011-5
ASF42GLTR04							tape & reel		2-1825011-6
ASF42GS04						J-lead	tube		2-1825011-9
ASF42GSTR04							tape & reel		3-1825011-0
ASF42L04					silver	gullwing	tube		2-1825011-7
ASF42LTR04							tape & reel		2-1825011-8
ASF42R04				side		THT	tube		2-1825011-3
ASF42RG04				actuator	gold				2-1825011-4
ASF42RGL04						gullwing			3-1825011-3
ASF42RGLTR04							tape & reel		3-1825011-4
ASF42RGS04						J-lead	tube		3-1825011-7
ASF42RGSTR04							tape & reel		3-1825011-8
ASF42RL04					silver	gullwing	tube		3-1825011-5
ASF42RLTR04							tape & reel		3-1825011-6
ASF42RS04						J-lead	tube		3-1825011-9
ASF42RSTR04							tape & reel		4-1825011-0
ASF42S04				top			tube		3-1825011-1
ASF42STR04				actuator			tape & reel		3-1825011-2
ASF4304			3 throws			THT	tube		4-1825011-1
ASF43G04					gold				4-1825011-2
ASF43GL04						gullwing			4-1825011-5
ASF43GLTR04							tape & reel		4-1825011-6
ASF43GS04						J-lead	tube		4-1825011-9
ASF43GSTR04							tape & reel		5-1825011-0
ASF43L04					silver	gullwing	tube		4-1825011-7
ASF43LTR04							tape & reel		4-1825011-8
ASF43R04				side		THT	tube		4-1825011-3
ASF43RG04				actuator	gold				4-1825011-4
ASF43RGL04						gullwing			5-1825011-3
ASF43RGLTR04							tape & reel		5-1825011-4
ASF43RGS04						J-lead	tube		5-1825011-7
ASF43RGSTR04							tape & reel		5-1825011-8
ASF43RL04					silver	gullwing	tube		5-1825011-5
ASF43RLTR04							tape & reel		5-1825011-6
ASF43RS04						J-lead	tube		5-1825011-9
ASF43RSTR04							tape & reel		6-1825011-0
ASF43S04				top		THT	tube		5-1825011-1
ASF43STR04				actuator			tape & reel		5-1825011-2
ASF6204		6 pole	2 throws				tube		6-1825011-1
ASF62G04					gold				6-1825011-2
ASF62GL04						gullwing			6-1825011-5
ASF62GLTR04							tape & reel		6-1825011-6
ASF62GS04						J-lead	tube		6-1825011-9
ASF62GSTR04							tape & reel		7-1825011-0
ASF62L04					silver	gullwing	tube		6-1825011-7
ASF62LTR04							tape & reel		6-1825011-8
ASF62R04				side		THT	tube		6-1825011-3
ASF62RG04				actuator	gold				6-1825011-4
ASF62RGL04						gullwing			7-1825011-3
ASF62RGLTR04							tape & reel		7-1825011-4
ASF62RGS04						J-lead	tube		7-1825011-7
ASF62RGSTR04							tape & reel		7-1825011-8
ASF62RL04					silver	gullwing	tube		7-1825011-5
ASF62RLTR04							tape & reel		7-1825011-6
ASF62RS04						J-lead	tube		7-1825011-9
ASF62RSTR04							tape & reel		8-1825011-0
ASF62S04				top			tube		7-1825011-1
ASF62STR04				actuator			tape & reel		7-1825011-2

Preferred parts in bold print

S & SE Series, Sealed & Unsealed, THT & SMT

Features

- Sealed or unsealed
- Straight or right angle
- Through hole or surface mount
- Bulk or tape and reel packaged
- Compact size
- Double pole function in a single pole body
- PC retention feature
- High reliability contact system
- Epoxy sealed base
- Robust actuator for easy actuation
- Non shorting-break-before-make



Typical performance characteristics

Contact rating, 0.4 VA @ 20 VDC or Peak AC (shorting)
 Contact rating, max 50 mA @ 48 VAC/DC
 Contact rating, min 1 microamp @ 20 millivolt AC/DC
 Electrical life 10,000 cycles
 Mechanical life 10,000 cycles
 Contact resistance, initial max 50 mOhm, 100 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 0.70 to 50.0 N (70 to 500 gf)
 Actuator travel 2.20 mm (.087) average

Environmental specification

Operating temperature -20 to +80°C
 Storage temperature -40 to +80°C
 Solder heat resistance 265°C/10s wave or 260°C/10s reflow

Material specifications

Contacts copper alloy gold finish
 Actuator nylon
 Terminals copper alloy gold finish
 Base nylon
 Frame copper alloy tin finish
 Seal silicon rubber
 RoHS Directive 2002/95/EC compliant

Product key		Typical product key		S	E	1	DG	SMT	TR	04
Type										
S	Slide switch, through hole and surface mount									
Seal										
blank	unsealed			E	sealed					
No of poles										
1	single pole			2	double pole					
No of throws										
G	single throw									
DG	double throw									
EG	triple throw									
Terminal										
PC	through hole THT, vertical			RA	through hole THT, right angle					
SMT	surface mount SMT									
Packaging										
blank	tray			TR	tape & reel					
Material										
04	RoHS compliant									

S & SE Series, Sealed & Unsealed, THT & SMT (Continued)

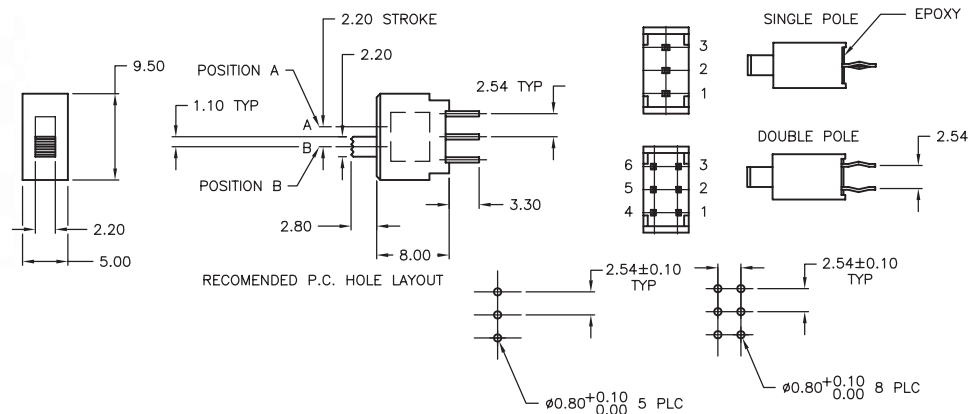
Terminal



PC through hole THT, vertical



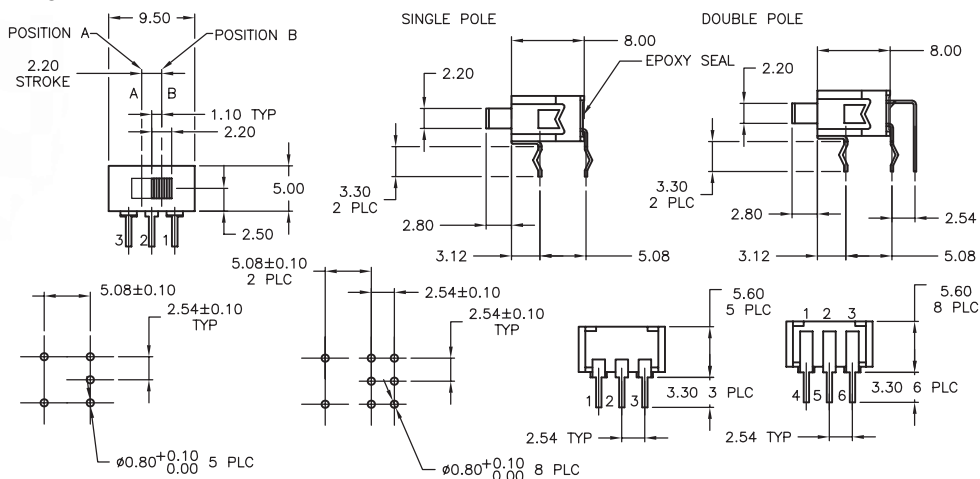
S1GPC04



RA through hole THT, right angle



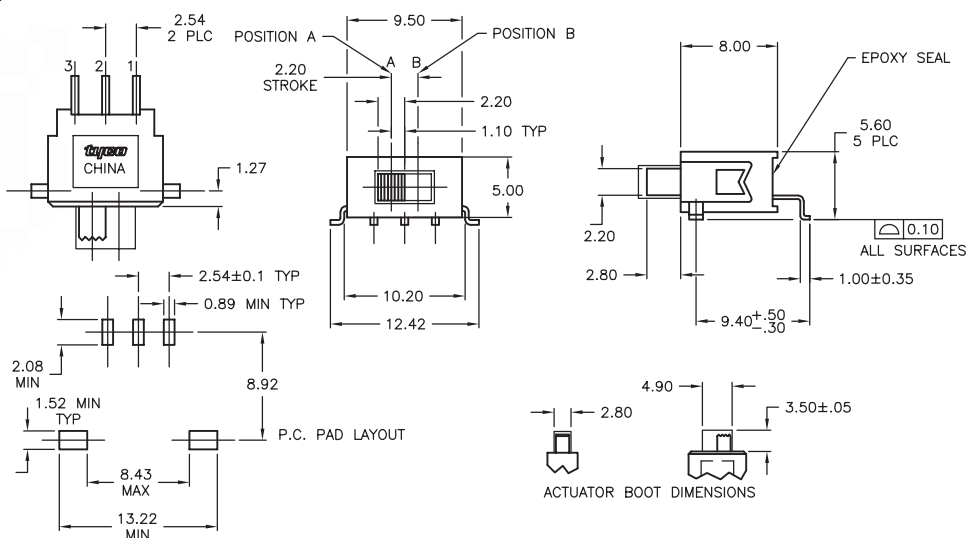
S1GRA04



SMT surface mount, SMT



S1EGSMT04



S & SE Series, Sealed & Unsealed, THT & SMT (Continued)

Function

Code	Poles	Throws	■	■	■
1G	single	single	Off	None	On 1 - 3
1DG		double	On 2 - 3	None	On 1 - 2
1EG		triple	On 2 - 3	Off	On 1 - 2
2DG	double	double	On 2 - 3 5 - 6	None	On 1 - 2 4 - 5
2EG		triple	On 2 - 3 5 - 6	Off	On 1 - 2 4 - 5

Off mechanical position, no electrical connection
None no mechanical position

Product key	Seal	No of poles	No of throws	Terminal	Packaging	Material	Part Number
S1DGPC04	unsealed	single pole	double throw	THT vertical	tray	RoHS compliant	5-1571005-1
S1DGRA04				THT right angle			5-1571006-1
S1EGPC04				THT vertical			5-1571005-2
S1EGRA04				THT right angle			5-1571006-2
S2DGPC04		double pole	double throw	THT vertical			5-1571005-3
S2DGRA04				THT right angle			5-1571006-3
S2EGPC04				THT vertical			5-1571005-4
S2EGRA04				THT right angle			5-1571006-4
SE1DGPC04	sealed	single pole	double throw	THT vertical			1825032-1
SE1DGRA04				THT right angle			1825031-1
SE1DGSMT04				SMT			5-1571004-3
SE1DGSMTTR04					tape&reel		5-1571004-6
SE1EGPC04			triple throw	THT vertical	tray		1825032-2
SE1EGRA04				THT right angle			1825031-2
SE1EGSMT04				SMT			5-1571004-2
SE1EGSMTTR04					tape&reel		5-1571004-5
SE1GSMT04			single throw		tray		5-1571004-1
SE1GSMTTR04					tape&reel		5-1571004-4
SE2DGPC04		double pole	double throw	THT vertical	tray		1825032-3
SE2DGRA04				THT right angle			1825031-3
SE2EGPC04				THT vertical			1825032-4
SE2EGRA04				THT right angle			1825031-4

Preferred parts in bold print

SSA Series, Micro Size, Instrumentation Grade, THT

Features

- Break-Before-Make timing



Typical performance characteristics

Contact rating gold-0.4 VA @ 20 VDC
 silver-100 milliamps @ 30 VDC
 Electrical life 10.000 cycles
 Mechanical life 10.000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance min 100 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 2.5 N (250 gf) average
 Actuator travel 2.50 mm (.098) average

Environmental specification

Operating temperature -20 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy silver or gold finish
 Actuator nylon
 Terminals copper alloy silver or gold finish
 Base pps
 Cover nylon
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SSA

1

2

04

Type

SSA Slide switch, micro size, instrumentation grade

No of poles

1 single pole

2 double pole

No of throws

2 2 throws

Plating

blank silver

G gold

Material

04 RoHS compliant

SSA Series, Micro Size, Instrumentation Grade, THT (Continued)

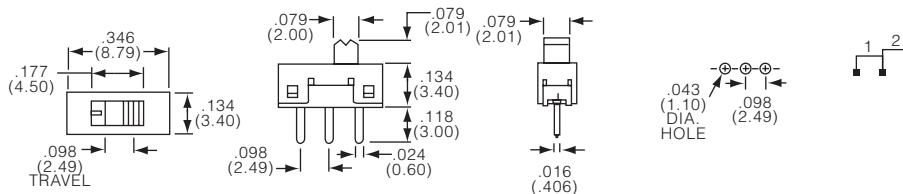
Number of poles



single pole



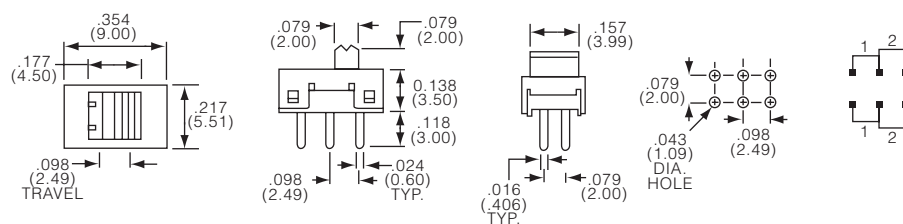
SSA12



double pole



SSA22



Product key	No of poles	No of throws	Plating	Material	Part Number
SSA1204	single	2 throws	silver	RoHS	1571981-1
SSA12G04	pole		gold	compliant	1571981-2
SSA2204	double		silver		1571981-3
SSA22G04	pole		gold		1571981-4

Preferred parts in bold print

SSB Series, Micro Size, Instrumentation Grade, THT

Features

- Upright or right angle
- Make-before-Break timing



Typical performance characteristics

Contact rating gold-0.4 VA @ 20 VDC
 silver-100 milliamps @ 30 VDC
 Electrical life 10.000 cycles
 Mechanical life 10.000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance min 100 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 2.5 N (250 gf) average
 Actuator travel 2.00 mm (.079) average

Environmental specification

Operating temperature -10 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy silver or gold finish
 Actuator pom
 Terminals copper alloy silver or gold finish
 Base phenolic
 Cover nylon
 Frame steel tin finish
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SSB

1

2

R

G

Type
SSB Slide switch, micro size, instrumentation grade

No of poles
1 single pole
2 double pole

No of throws
2 2 throws

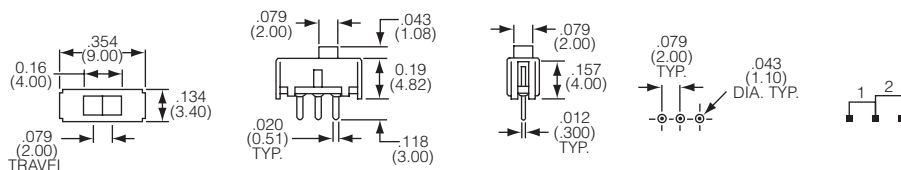
Actuation
blank vertical
R right angle

Plating
blank silver
G gold

Single pole



double throw, vertical

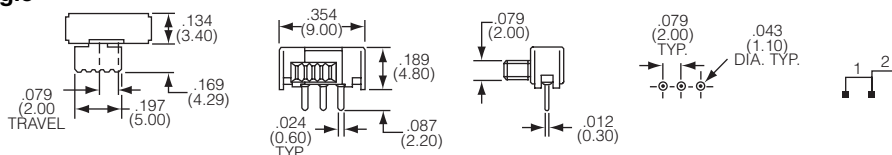


SSB Series, Micro Size, Instrumentation Grade, THT (Continued)

double throw, right angle



SSB12R



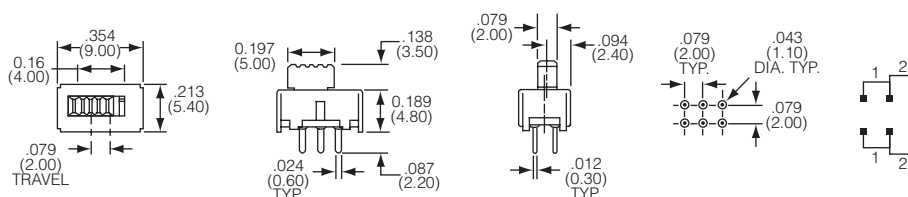
Double pole



double throw, vertical



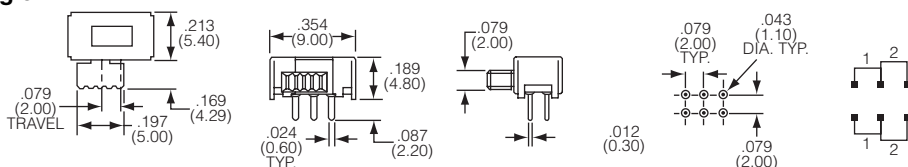
SSB22



double throw, right angle



SSB22R



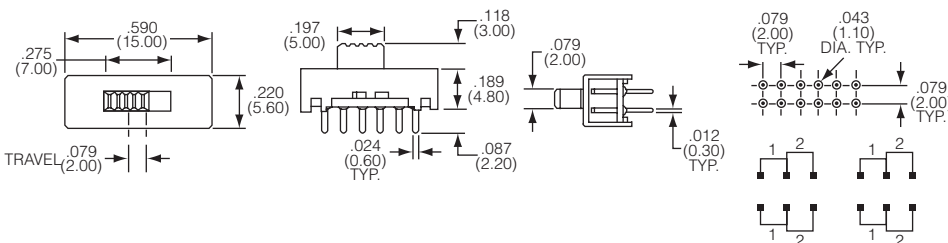
4 pole



double throw, vertical



SSB42



Product key	No of poles	No of throws	Actuation	Plating	Part Number
SSB12	single pole	2 throws	vertical	silver	1-1437575-8
SSB12G				gold	1-1437575-9
SSB12R			right angle	silver	2-1437575-0
SSB12RG				gold	2-1437575-1
SSB22	double pole		vertical	silver	2-1437575-2
SSB22G				gold	2-1437575-3
SSB22R			right angle	silver	2-1437575-4
SSB22RG				gold	2-1437575-5
SSB42	4 pole		vertical	silver	2-1437575-8
SSB42G				gold	2-1437575-9

SSJ Series, Micro Size, Instrumentation Grade, THT

Features

- Upright or right angle
- Make-before-Break timing



Typical performance characteristics

Contact rating 100 milliamps @ 12 VDC
 Electrical life 10.000 cycles
 Mechanical life 10.000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance min 100 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 2.5 N (250 gf) average
 Actuator travel 2.0 mm (.079) average

Environmental specification

Operating temperature -20 to +70°C
 Storage temperature -30 to +70°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator nylon 66
 Terminals copper alloy silver finish
 Base nylon 66
 Cover nylon 66
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SSJ

1

2

04

Type

SSJ Slide switch, micro size, instrumentation grade

No of poles

1 single pole

No of throws

2 2 throws **3** 3 throws

Actuation

blank vertical **R** right angle

Material

04 RoHS compliant

SSJ Series, Micro Size, Instrumentation Grade, THT (Continued)

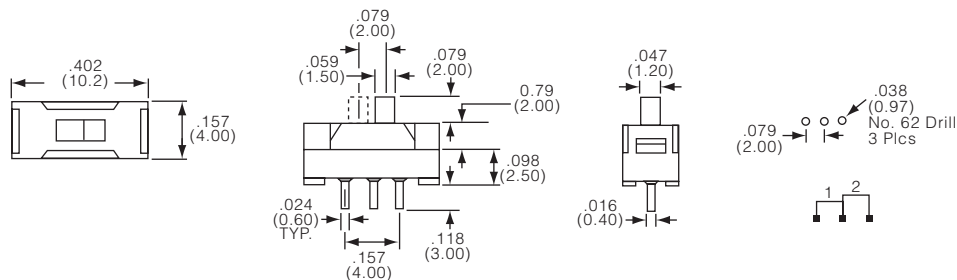
Single pole



double throw, vertical



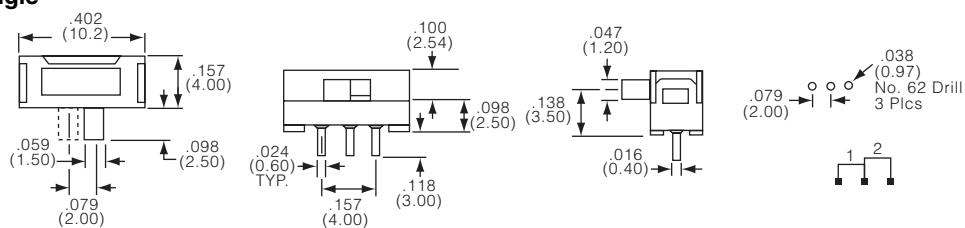
SSJ12



double throw, right angle



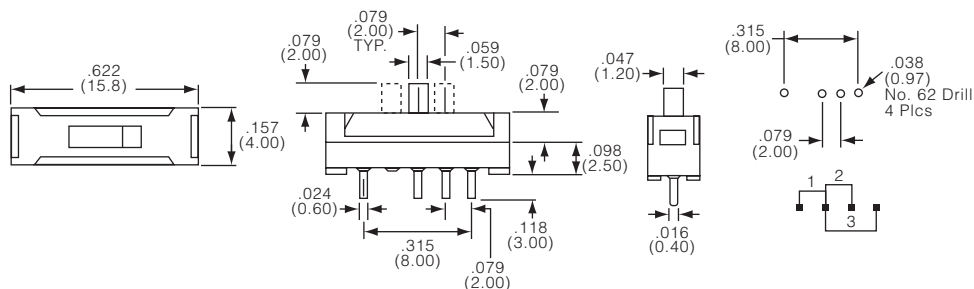
SSJ12R



triple throw, vertical



SSJ13



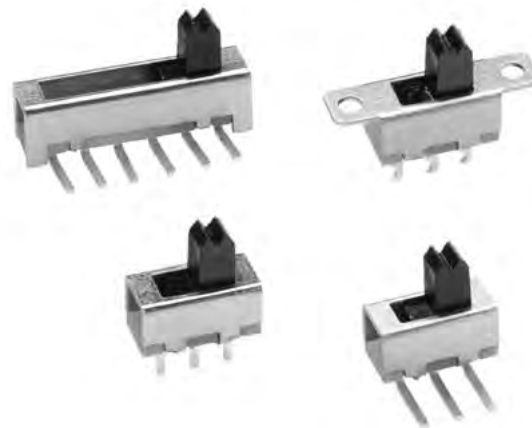
Product key	No of poles	No of throws	Actuation	Material	Part Number
SSJ1204	single pole	2 throws	vertical	RoHS compliant	1825280-1
SSJ12R04			right-angle		1825282-1
SSJ1304		3 throws	vertical		1825283-1

Preferred parts in bold print

SLS Series, Miniature, Rolling Contact, Economy Grade, THT

Features

- High reliability contact system
- Robust actuator for easy actuation
- Break-before-Make timing



Typical performance characteristics

Contact rating 250 milliamps @ 125 VAC, 150 milliamps @ 12 VDC
 Electrical life no load 10,000 cycles
 no load, at rated current, 8,000 cycles
 Mechanical life 10,000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 2.5 +1.5/-1.0 N (250 +150/-100 gf)
 Actuator travel 3.20 mm (.126)

Environmental specification

Operating temperature -10 to +85°C
 Storage temperature -10 to +100°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy gold or silver finish
 Actuator pbt
 Terminals copper alloy gold or silver finish
 Frame steel zinc finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key		Typical product key		SLS	1	2	1		PC		04
Type	Slide switch, PC tails, wiping contact, consumer grade										
No of poles	single pole										
No of throws											
2	2 throws			4	4 throws						
3	3 throws			5	5 throws						
Version	standard										
Actuator color											
blank	black			N	natural						
Mounting											
blank	panel			RA	right angle						
PC	printed circuit			1	printed circuit with lug						
Contacts											
blank	silver			G	gold						
Material											
04	RoHS compliant										

SLS Series, Miniature, Rolling Contact, Economy Grade, THT (Continued)

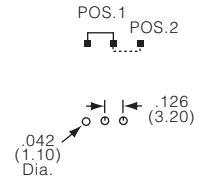
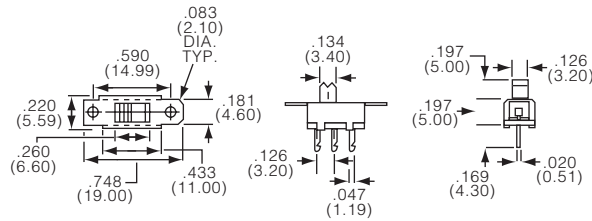
Double throw



panel mounting



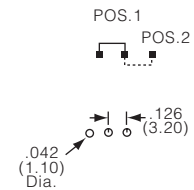
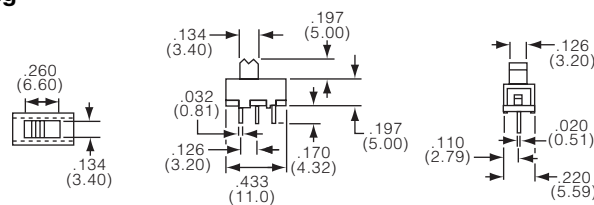
SLS121



printed circuit mounting



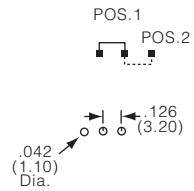
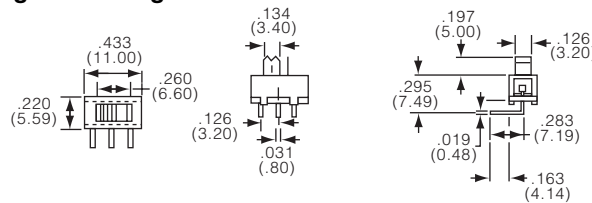
SLS121PC



printed circuit, right angle mounting



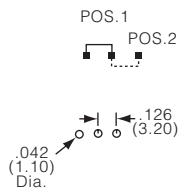
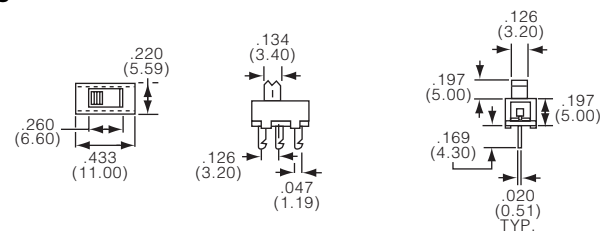
SLS121RA



printed circuit with lug



SLS1211



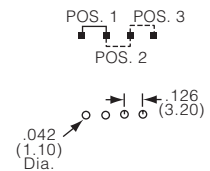
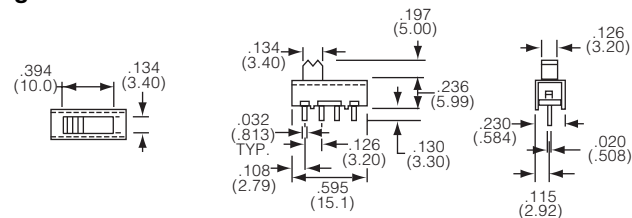
Triple throw



printed circuit mounting



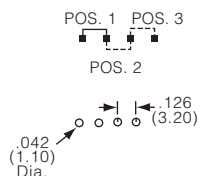
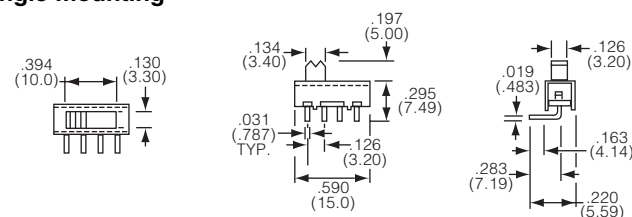
SLS1311PC



printed circuit, right angle mounting



SLS1311RA



SLS Series, Miniature, Rolling Contact, Economy Grade, THT (Continued)

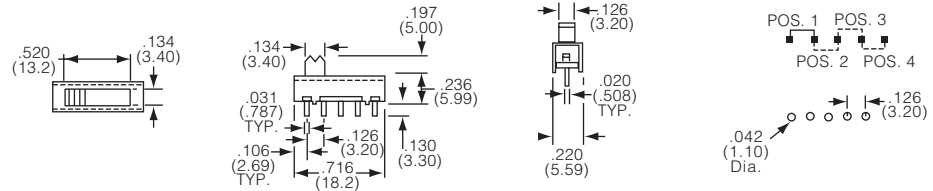
4 throws



printed circuit mounting



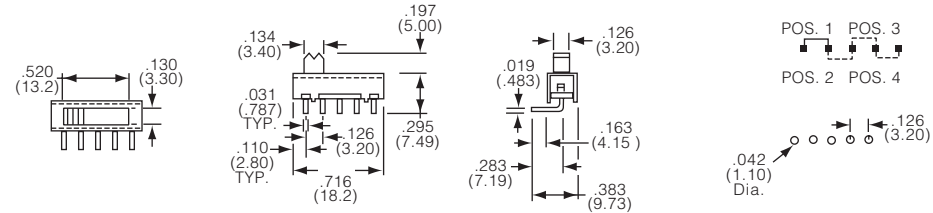
SLS141PC



printed circuit, right angle mounting



SLS141RA



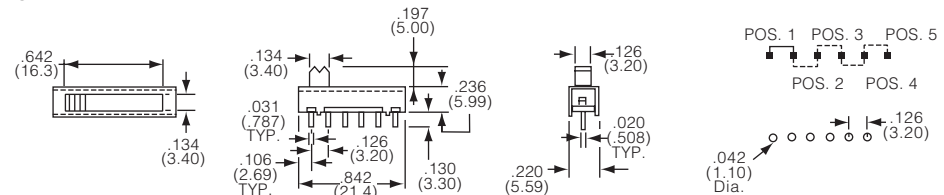
5 throws



printed circuit mounting



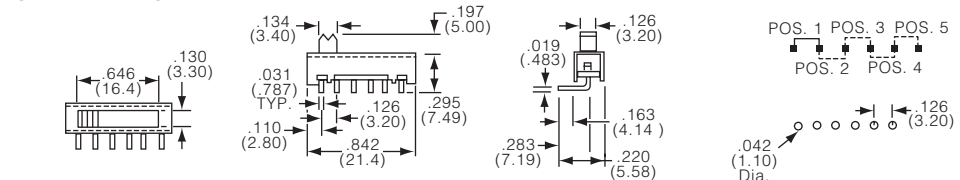
SLS151PC



printed circuit, right angle mounting



SLS151RA



Product key	No of poles	No of throws	Mounting	Material	Part Number
SLS12104	single pole	2 throws	panel	RoHS compliant	1825076-1
SLS121104			pc with lug		1825077-1
SLS121NPC04			printed circuit		1825115-3
SLS121NRA04			right angle		1825116-2
SLS121PC04			printed circuit		1825115-1
SLS121PCG04		3 throws			1825115-2
SLS121RA04			right angle		1825116-1
SLS131PC04			printed circuit		1825117-1
SLS131RA04			right angle		1825118-1
SLS141PC04		4 throws	printed circuit		1825119-1
SLS141RA04			right angle		1825120-1
SLS151PC04		5 throws	printed circuit		1825121-1
SLS151RA04			right angle		1825122-1

Preferred parts in bold print

SL Series, PC Tails, Consumer Grade, THT

Features

- High reliability contact system
- Robust actuator for easy actuation
- Lever or knob actuator
- Break-before-Make timing
- Wiping contact



Slide Switches

Typical performance characteristics

Contact rating 250 milliamps @ 125 VAC, 150 milliamps @ 12 VDC
 Electrical life. 10.000 cycles
 Mechanical life. 10.000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force. 1.0 to 3.0 N (100 to 300gf)
 Actuator travel 4.0 mm (.157) average

Environmental specification

Operating temperature -10 to +60°C
 Storage temperature -10 to +60°C
 Solder heat resistance. 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Slider polycarbonate
 Actuator steel zinc finish
 Terminals copper alloy silver finish
 Frame steel tin finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SL

3

30

04

Type

SL

Slide switch, PC tails, wiping contact, consumer grade

No of poles

2 2 poles
3 3 poles
5 5 poles
6 6 poles

7 7 poles
8 8 poles
10 10 poles

No of positions

20 2 positions
30 3 positions
50 5 positions
60 6 positions

70 7 positions
80 8 positions
00 10 positions

Material

04

RoHS compliant

SL Series, PC Tails, Consumer Grade, THT (Continued)

Number of poles



Codes 2, 3, 5, 6, 7, 8, 10 2 to 10 poles

Slide Switches



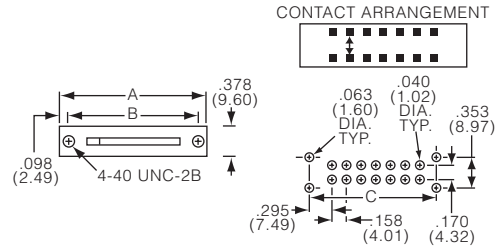
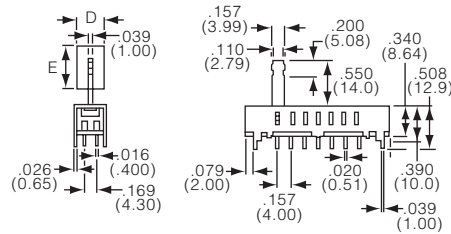
SL550



SL660
with
KSS
knob



SL770



CONTACT ARRANGEMENT



Pos.	Dim A	Dim B	Dim C
2	24.13 (.950)	19.05 (.750)	19.05 (.750)
3	28.19 (1.11)	23.1 (.910)	23.1 (.910)
5	36.07 (1.42)	30.99 (1.22)	31.1 (1.22)
6	40.13 (1.58)	35.05 (1.38)	35.1 (1.38)
7	44.20 (1.74)	39.12 (1.54)	39.1 (1.54)
8	48.01 (1.89)	43.18 (1.70)	43.1 (1.70)
10	56.13 (2.21)	51.05 (2.01)	51.1 (2.01)

Knob	Dim D	Dim E
KSS10A	6.86 (.270)	12.7 (.500)
KSS10B	6.86 (.270)	12.7 (.500)
KSS20A	7.75 (.305)	13.0 (.512)
KSS20B	7.75 (.305)	13.0 (.512)

Product key	No of poles	No of positions	Material	Part Number
SL22004	2 pole	2 positions	RoHS	1825073-1
SL33004	3 pole	3 positions	compliant	1825073-2
SL55004	5 pole	5 positions		1825073-3
SL66004	6 pole	6 positions		1825073-4
SL77004	7 pole	7 positions		1825073-5
SL88004	8 pole	8 positions		1825073-6
SL100004	10 pole	10 positions		1825073-7

SLS & SLSA Series, Panel Mount, Consumer Grade, THT

Features

- High reliability contact system
- Robust actuator for easy actuation
- Break-before-Make timing
- Wiping contact



Slide Switches

Typical performance characteristics

Contact rating 500 milliamps @ 125 VAC, 200 milliamps @ 12 VDC
 Electrical life 10.000 cycles
 Mechanical life 10.000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 3.5 +/-2.0 N (350 +/-200 gf)
 Actuator travel 2.69 mm (.106)

Environmental specification

Operating temperature -20 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator pbt
 Terminals copper alloy silver finish
 Frame steel zinc finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key		Typical product key		SLS	2	20	04
Type							
SLS	Slide switch, panel mount, wiping contact, consumer grade						
Terminal							
blank	lug	A	turret				
No of poles							
1	single pole	2	double pole				
No of throws							
20	2 throws						
Frame style							
blank	panel mounting	1	no panel hole				
Material							
04	RoHS compliant						

SLS & SLSA Series, Panel Mount, Consumer Grade, THT (Continued)

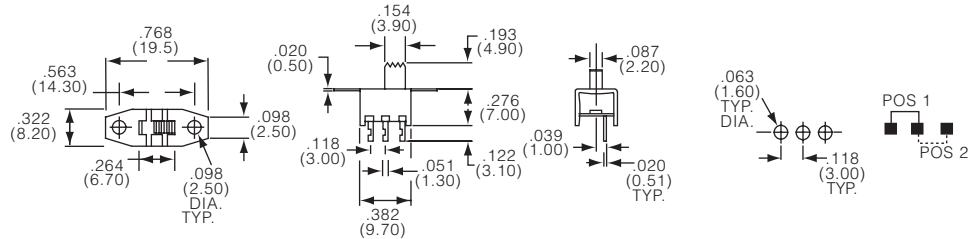
Single Pole



lug terminal, panel mounting



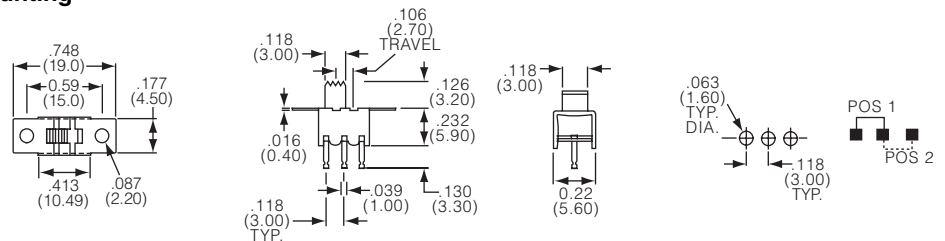
SLS120



turret terminal, panel mounting



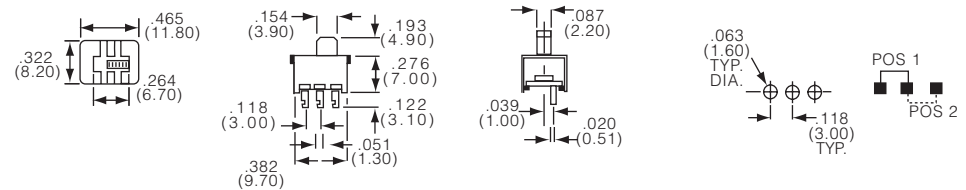
SLSA120



lug terminal, no panel hole



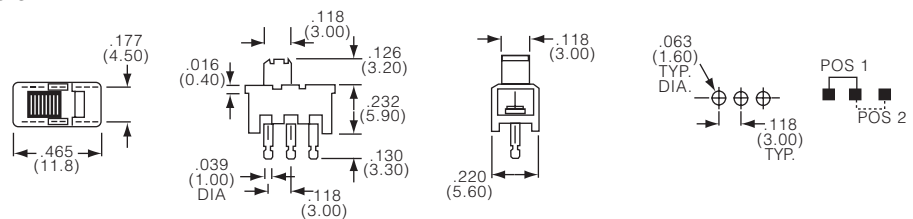
SLS1201



turret terminal, no panel hole



SLS2201



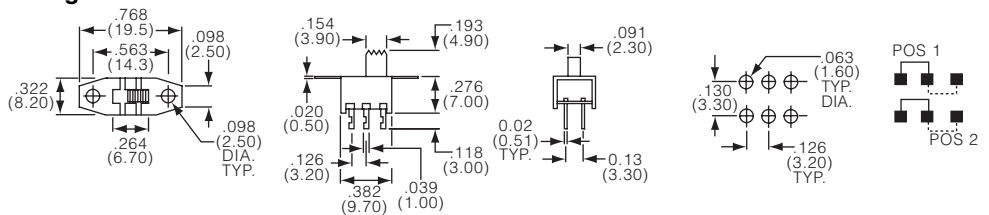
Double Pole



lug terminal, panel mounting



SLS220

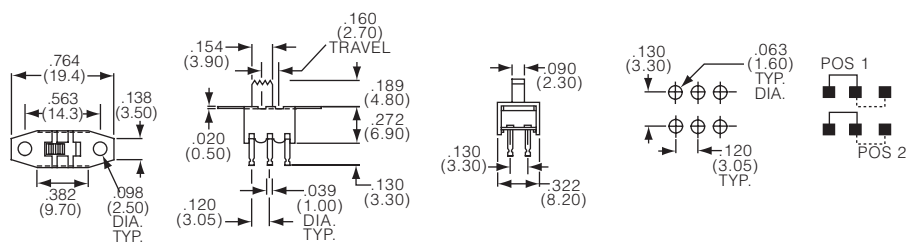


turret terminal, panel mounting

SLS & SLSA Series, Panel Mount, Consumer Grade, THT (Continued)



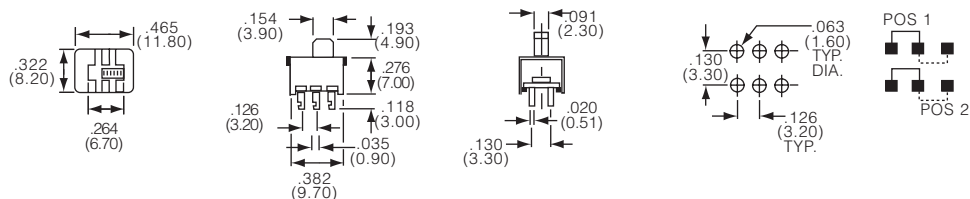
SLSA220



lug terminal, no panel hole



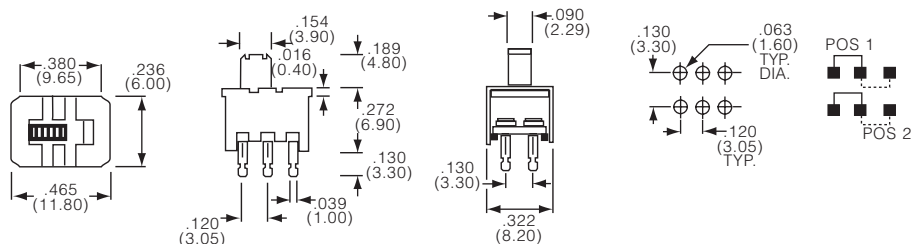
SLSA1201



turret terminal, no panel hole



SLSA2201



Product key	Terminal	No of poles	No of throws	Frame style	Material	Part Number
SLS12004	lug	single	2 throws	panel mount	RoHS compliant	1825074-1
SLS120104		pole		no panel hole		1825075-1
SLS22004		double		panel mount		1825078-1
SLS220104	turret	pole		no panel hole		1825079-1
SLSA12004		single		panel mount		1825081-1
SLSA120104		pole		no panel hole		1825082-1
SLSA22004		double		panel mount		1825083-1
SLSA220104		pole		no panel hole		1825087-1

SLS Series, PC Tails, Consumer Grade, THT

Features

- High reliability contact system
- Robust actuator for easy actuation
- Break-before-Make timing
- Wiping contact



Typical performance characteristics

Contact rating 250 milliamps @ 125 VAC, 150 milliamps @ 12 VDC
 Electrical life. 10.000 cycles
 Mechanical life. 10.000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force. 2.50 N (250 gf) average
 Actuator travel 3.20 mm (.126) average

Environmental specification

Operating temperature -10 to +60°C
 Storage temperature -10 to +60°C
 Solder heat resistance. 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator pbt
 Terminals copper alloy silver finish
 Case steel zinc finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SLS 2 40 PC 04

Type

SLS Slide switch, PC tails, wiping contact, consumer grade

No of poles

2 2 poles

No of positions

20	2 positions	50	5 positions
30	3 positions	60	6 positions
40	4 positions		

Mounting

PC printed circuit

Material

04 RoHS compliant

SLS Series, PC Tails, Consumer Grade, THT (Continued)

Number of positions

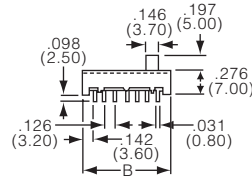
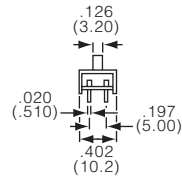
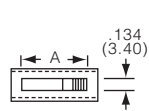


codes 20, 30, 40, 50, 60 2 to 6 positions



SLS220PC

SLS250PC

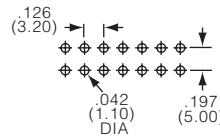
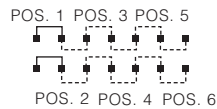


Pos.	Dim A	Dim B
2	6.91 (.272)	13.59 (.535)
3	10.11 (.398)	16.79 (.661)
4	13.31 (.524)	19.99 (.787)
5	16.51 (.650)	23.19 (.913)
6	19.71 (.776)	26.39 (1.04)



SLS240PC

SLS230PC



Product key	No of poles	No of positions	Mounting	Material	Part Number
SLS220PC04	double	2 positions	printed circuit	RoHS	1825080-1
SLS230PC04	pole	3 positions		compliant	1825080-2
SLS240PC04		4 positions			1825080-3
SLS250PC04		5 positions			1825080-4
SLS260PC04		6 positions			1825080-5

Preferred parts in bold print

STS Series, Miniature, Low Profile, THT

Features

- Upright or right angle
- High reliability contact system
- Robust actuator for easy actuation
- Make-before-Break timing



Typical performance characteristics

Contact rating..... 250 milliamps @125 VAC
 Electrical life..... 10.000 cycles
 Mechanical life..... 10.000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength..... 500 VAC for 1 min
 Actuation force..... 2.50 N (250 gf) average
 Actuator travel 2.49 (.098) average

Environmental specification

Operating temperature -10 to +60°C
 Storage temperature -10 to +60°C
 Solder heat resistance..... 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator..... pom
 Terminals..... copper alloy silver finish
 Case steel zinc finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

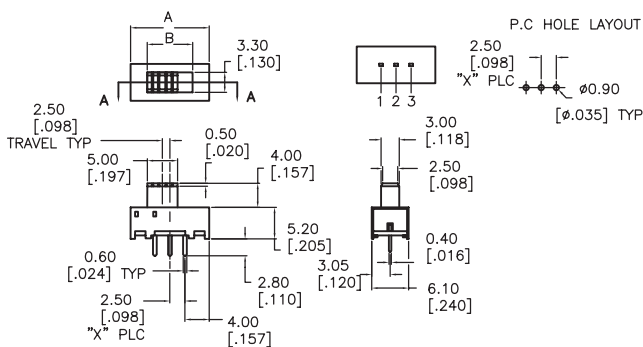
Product key		Typical product key		STS	1	2	1	RA	04
Type									
STS Miniature, low profile slide switch									
No of poles									
1	single pole	2	double pole						
No of throws									
2	two throws	5	five throws						
3	three throws	6	six throws						
4	four throws								
Pinning									
1	in-line spacing without break								
0	dual row in-line spacing without break								
00	in-line spacing with break								
Actuation									
PC	vertical	RA	right angle (single pole only)						
Material									
04	RoHS compliant								

STS Series, Miniature, Low Profile, THT (Continued)

Single Pole



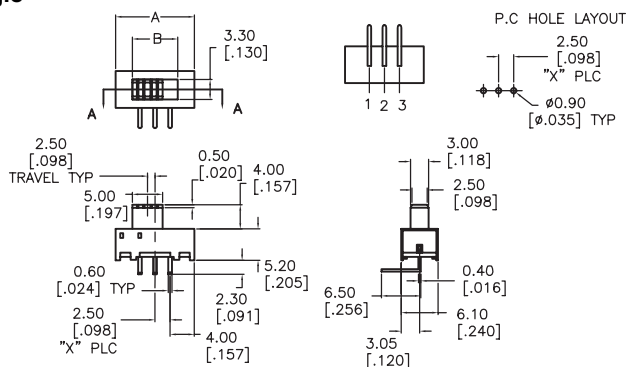
without break, vertical



Fct	Dim A	Dim B
SPDT	13.00 (.512)	7.49 (.295)
SP3T	15.50 (.610)	10.01 (.394)
SP4T	18.01 (.709)	12.50 (.492)
SP5T	20.50 (.807)	15.01 (.591)
SP6T	23.01 (.906)	17.50 (.689)

X number of throws

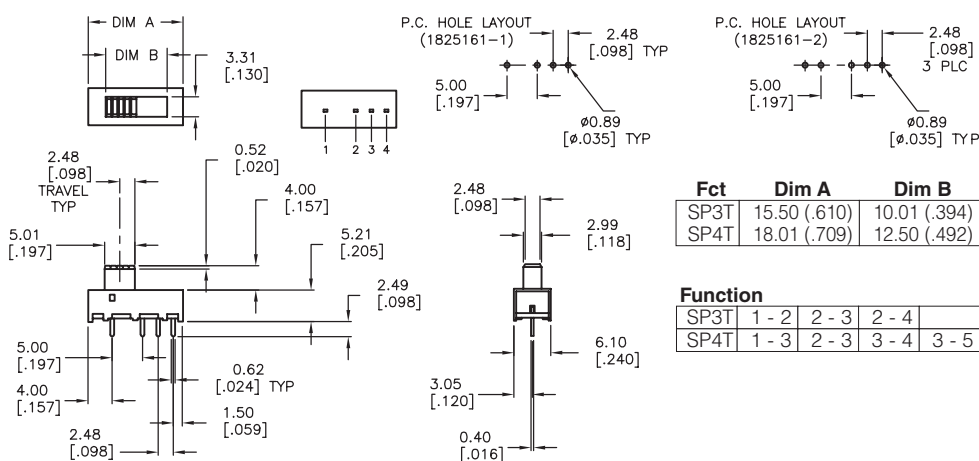
without break, right angle



Fct	Dim A	Dim B
SPDT	13.00 (.512)	7.49 (.295)
SP3T	15.50 (.610)	10.01 (.394)
SP4T	18.01 (.709)	12.50 (.492)
SP5T	20.50 (.807)	15.01 (.591)
SP6T	23.01 (.906)	17.50 (.689)

X number of throws

with break, vertical



Fct	Dim A	Dim B
SP3T	15.50 (.610)	10.01 (.394)
SP4T	18.01 (.709)	12.50 (.492)

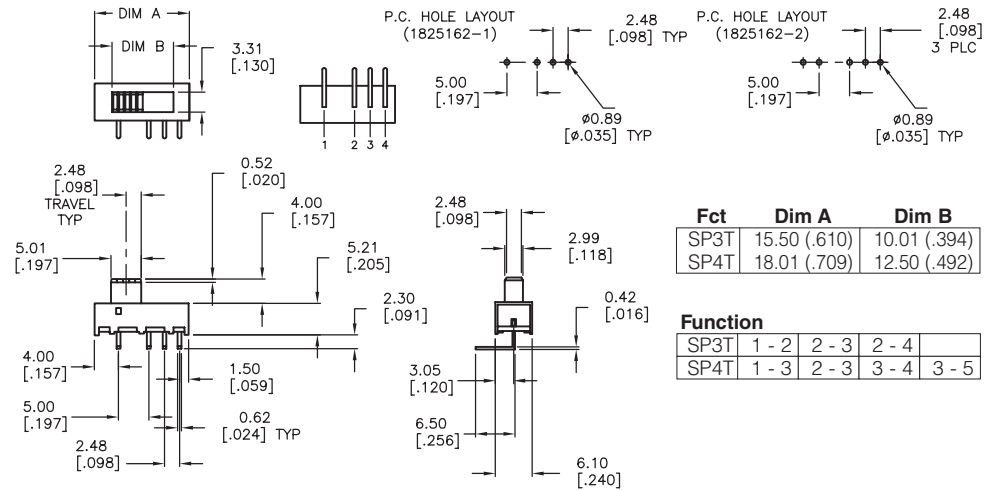
Function			
SP3T	1 - 2	2 - 3	2 - 4
SP4T	1 - 3	2 - 3	3 - 4

STS Series, Miniature, Low Profile, THT (Continued)

with break, right angle

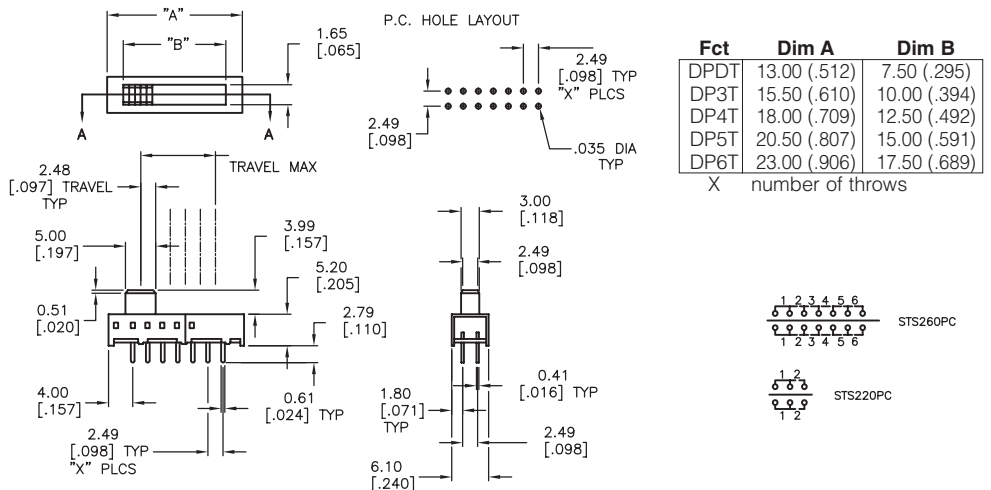


STS1300RA



Double Pole

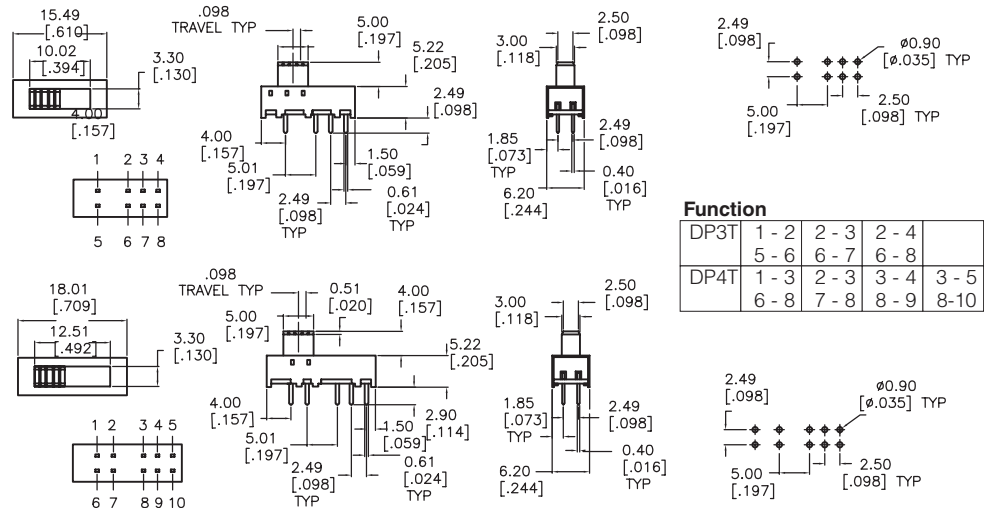
without break, vertical



with break, vertical



STS2300PC



STS Series, Miniature, Low Profile, THT (Continued)

Product key	No of poles	No of throws	Pinning	Terminal	Material	Part Number	
STS121PC04	single pole	2 throws	in-line spacing without break	vertical	RoHS compliant	1825159-1	
STS131PC04		3 throws				1825159-2	
STS141PC04		4 throws				1825159-3	
STS151PC04		5 throws				1825159-4	
STS161PC04		6 throws				1825159-5	
STS121RA04	single pole	2 throws	in-line spacing without break	right angle		1825160-1	
STS131RA04		3 throws				1825160-2	
STS141RA04		4 throws				1825160-3	
STS151RA04		5 throws				1825160-4	
STS161RA04		6 throws				1825160-5	
STS1300PC04		3 throws		in-line spacing with break		vertical	1825161-1
STS1400PC04		4 throws					1825161-2
STS1300RA04		3 throws		right angle			1825162-1
STS1400RA04		4 throws					1825162-2
STS220PC04	double pole	2 throws	dual row in-line spacing without break	vertical		1825163-1	
STS230PC04		3 throws				1825163-2	
STS240PC04		4 throws				1825163-3	
STS250PC04		5 throws				1825163-4	
STS260PC04		6 throws				1825163-5	
STS2300PC04		3 throws	in-line spacing with break			1825164-1	
STS2400PC04		4 throws				1825165-1	

Preferred parts in bold print

STSA Series, Miniature, Low Profile, THT

Features

- Upright or right angle
- High reliability contact system
- Robust actuator for easy actuation
- Make-before-Break timing



Typical performance characteristics

Contact rating..... 250 milliamps @125 VAC
 Electrical life..... 10,000 cycles
 Mechanical life..... 10,000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 500 MOhm
 Dielectric strength..... 500 VAC for 1 min
 Actuation force..... 2.50 N (250 gf) average
 Actuator travel 2.49 mm (.098) average

Environmental specification

Operating temperature -10 to +60°C
 Storage temperature -10 to +60°C
 Solder heat resistance..... 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator..... pom
 Terminals..... copper alloy silver finish
 Case steel zinc finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

STSA 2 2 0 RA 04

Type

STSA Miniature, low profile slide switch

No of poles

2 double pole

No of throws

2 two throws **3** three throws

Version

0 standard version

Actuation

RA right angle

Frame

blank without posts **1** with posts

Material

04 RoHS compliant

STSA Series, Miniature, Low Profile, THT (Continued)

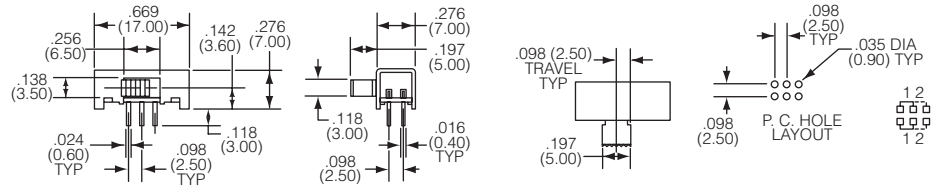
2 throws



right angle, without posts



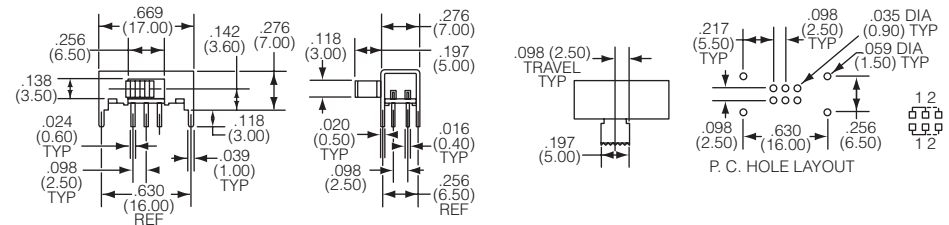
STSA220RA



right angle, with posts



STSA220RA1



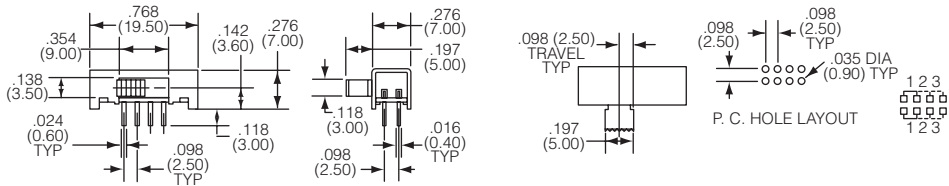
3 throws



right angle, without posts



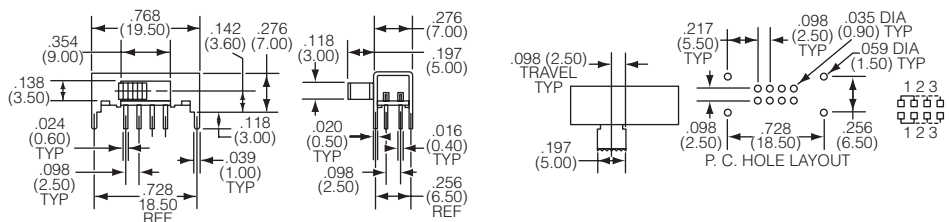
STSA230RA



right angle, with posts



STSA230RA1



Product key	No of poles	No of throws	Terminal	Frame	Material	Part Number
STSA220RA04	double	2 throws	right angle	without	RoHS	1825166-1
STSA230RA04	pole	3 throws		posts	compliant	1825166-2
STSA220RA104		2 throws		with posts		1825167-1
STSA230RA104		3 throws				1825167-2

MSSA . 01/04 Series, Instrumentation Grade, THT

Features

- 2.54 mm (.100) and 5.08 mm (.200) terminal spacing
- Upright or right angle
- Gold or silver contact finish
- Break-before-Make timing



Typical performance characteristics

Contact rating, gold: 0.4 VA @ 20 VDC or Peak AC
 silver: 3 A @ 115 VAC, 1.5 A @ 230 VAC
 Electrical life, 30,000 cycles
 Mechanical life, 30,000 cycles
 Contact resistance, initial, max 20 mOhm
 Insulation resistance, min 1,000 MOhm
 Dielectric strength, 500 V for 1 min
 Actuation force, 6.0 N (600 gf) average
 Actuator travel, 3.05 mm (.120) average

Environmental specification

Operating temperature, -20 to +65°C
 Storage temperature, -40 to +100°C
 Solder heat resistance, 265°C/10s wave

Material specifications

Contacts, copper alloy silver or gold finish
 Actuator, pps
 Terminals, copper alloy silver or tin finish
 Base, pbt
 Cover, pbt
 RoHS Directive 2002/95/EC, compliant

Product key		Typical product key							
		MSSA	2	0	1	D	1		04
Type									
MSSA		Slide switch, instrumentation grade							
No of poles									
1	single pole	2	double pole						
Terminal C/L									
0	2.54 mm (.100)	1	5.08 mm (.200)						
Contact finish									
1	gold	4	silver						
Actuation code									
D	On-None-On	N	On-None-On						
E	On-Off-On	P	On-Off-On						
Plating									
blank	silver	G	gold						
Actuator									
blank	extended actuator	1	flush actuator						
Actuation									
blank	vertical	RA	right angle						
Material									
04	RoHS compliant								

MSSA . 01/04 Series, Instrumentation Grade, THT (Continued)

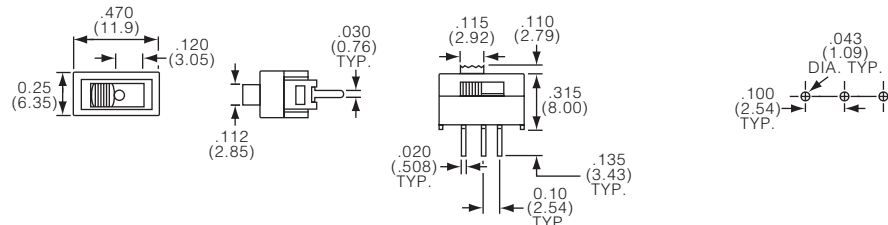
Single pole



terminals 2.54 mm (.100), extended actuator, vertical



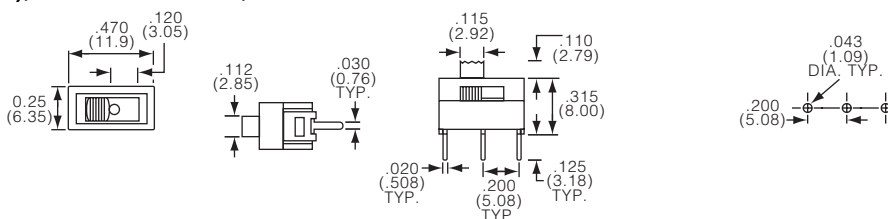
MSSA104D



terminals 5.08 mm (.200), extended actuator, vertical



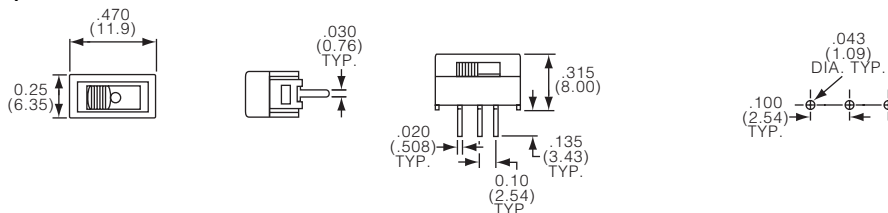
MSSA114D



terminals 2.54 mm (.100), flush actuator



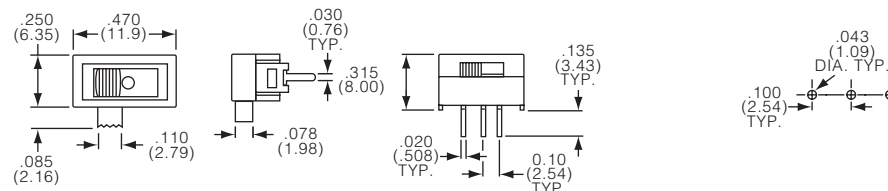
MSSA104D1



terminals 2.54 mm (.100), extended actuator, right angle



MSSA104DGRA



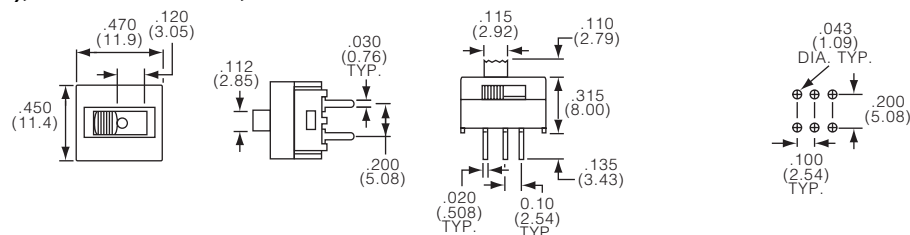
Double pole



terminals 2.54 mm (.100), extended actuator, vertical

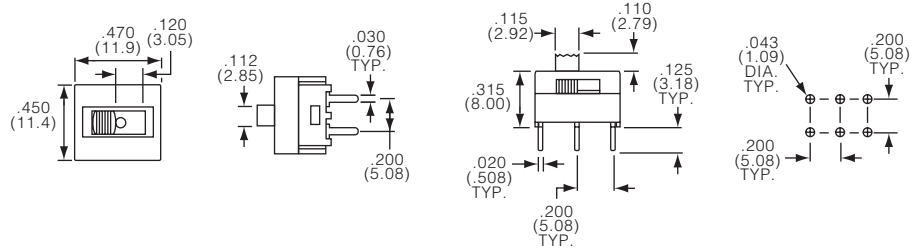


MSSA204N

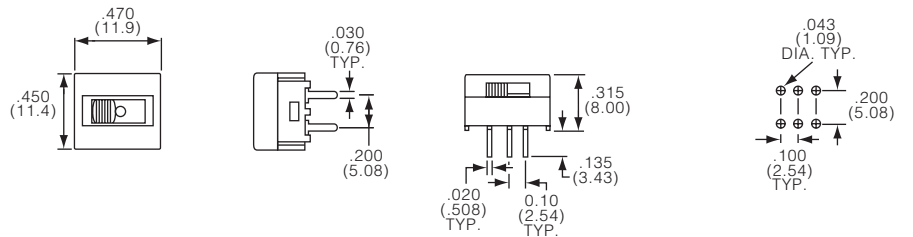


MSSA . 01/04 Series, Instrumentation Grade, THT (Continued)

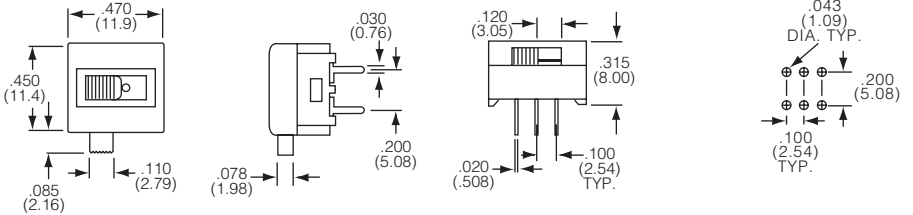
terminals 5.08 mm (.200), extended actuator, vertical



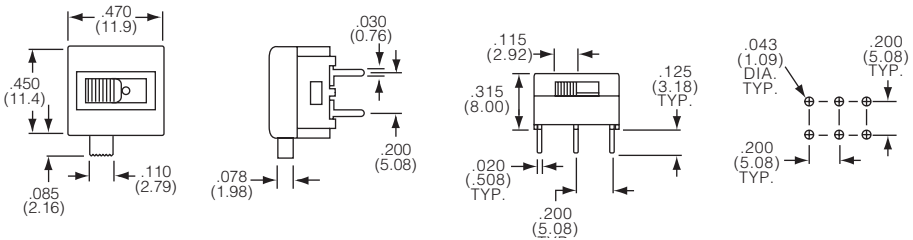
terminals 2.54 mm (.100), flush actuator



terminals 2.54 mm (.100), extended actuator, right angle



terminals 5.08 mm (.200), extended actuator, right angle



Actuation code



Codes D, E, N, P

D On-None-On



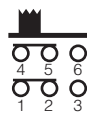
NONE



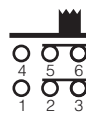
E On-Off-On



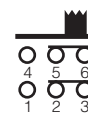
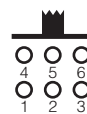
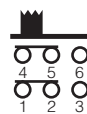
N On-None-On



NONE



P On-Off-On



MSSA . 01/04 Series, Instrumentation Grade, THT (Continued)

Product key	Poles	Terminal	Contacts	Actuation	Plating	Actuator	Actuation	Material	Part Number		
MSSA101DG04	single pole	2.54 mm (.100)	gold	On-None-On	gold	extended	vertical	RoHS compliant	1-1437580-7		
MSSA101DG104						flush			1-1437580-8		
MSSA101DGRA04						extended	right angle		1-1437580-9		
MSSA101EGRA04					On-Off-On			vertical		2-1437580-1	
MSSA104D04				silver	On-None-On	silver				2-1437580-3	
MSSA104D104							flush			2-1437580-4	
MSSA104DRA04							extended	right angle		2-1437580-5	
MSSA104E04					On-Off-On			vertical		2-1437580-6	
MSSA111DG04				5.08 mm (.200)	gold	On-None-On	gold				2-1437580-9
MSSA111EG04			On-Off-On						3-1437580-0		
MSSA114D04		silver	On-None-On		silver				3-1437580-1		
MSSA114E04			On-Off-On						3-1437580-2		
MSSA201NG04	double pole	2.54 mm (.100)	gold	On-None-On	gold				4-1437580-1		
MSSA201NGRA04							right angle		4-1437580-2		
MSSA204N04						silver		vertical	4-1437580-4		
MSSA204N104									4-1437580-5		
MSSA204NRA04							right angle		4-1437580-6		
MSSA204P04				On-Off-On			vertical		4-1437580-7		
MSSA204P104						flush			4-1437580-8		
MSSA211NG04				5.08 mm (.200)	gold	On-None-On	gold	extended			4-1437580-9
MSSA211NGRA04								right angle		5-1437580-0	
MSSA211PG04		On-Off-On				vertical		5-1437580-1			
MSSA214N04			silver	On-None-On	silver				5-1437580-2		

Preferred parts in bold print

MMS Series, Micro Size, Instrumentation Grade, THT

Features

- Upright or right angle
- Make-before-Break timing



Typical performance characteristics

Contact rating 100 milliamps @ 30 VDC
 Electrical life 10.000 cycles
 Mechanical life 10.000 cycles
 Contact resistance, initial max 30 mOhm, 60 mOhm (after test)
 Insulation resistance min 100 MOhm
 Dielectric strength 500 VAC for 1 min
 Actuation force 2.0 N (200 gf) average
 Actuator travel 2.00 mm (.079) average
 MMS12: 2.50 mm (.098) average

Environmental specification

Operating temperature -10 to +60°C
 Storage temperature -10 to +60°C
 Solder heat resistance 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
 Actuator polyacetal
 Terminals copper alloy silver finish
 Base nylon
 Cover polyacetal
 RoHS Directive 2002/95/EC compliant

Product key

Typical product key

MMS	2	2
------------	----------	----------

Type

MMS Slide switch, micro size, instrumentation grade

No of poles

1 single pole
2 double pole

No of throws

2 2 throws
3 3 throws

Actuation

blank vertical
R right angle

MMS Series, Micro Size, Instrumentation Grade, THT (Continued)

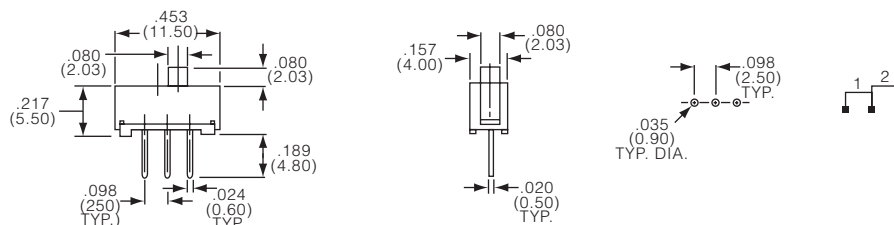
Single Pole



double throw, vertical



MMS12



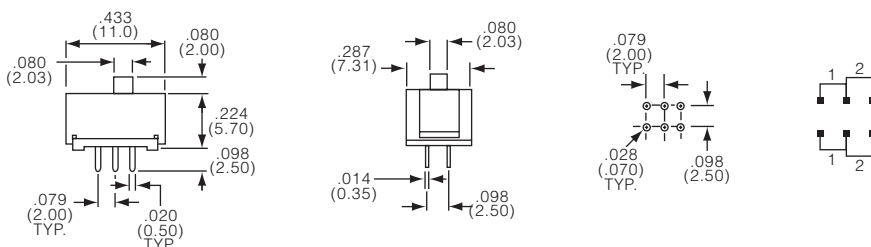
Double Pole



double throw, vertical



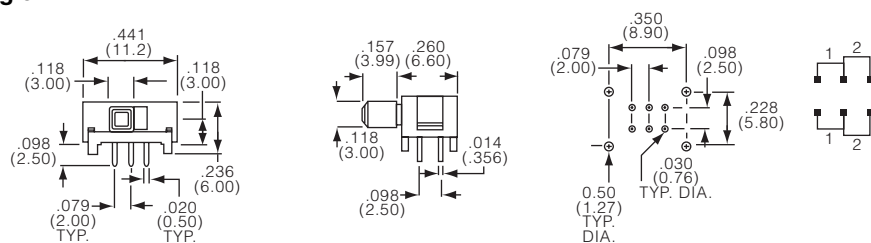
MMS22



double throw, right angle



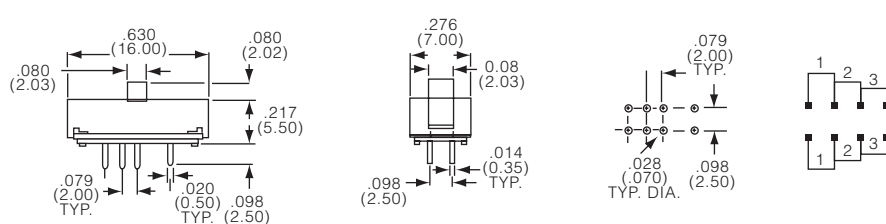
MMS22R



triple throw, vertical



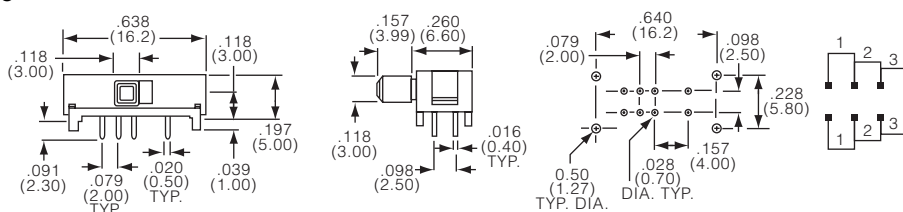
MMS23



triple throw, right angle



MMS23R



MMS Series, Micro Size, Instrumentation Grade, THT (Continued)

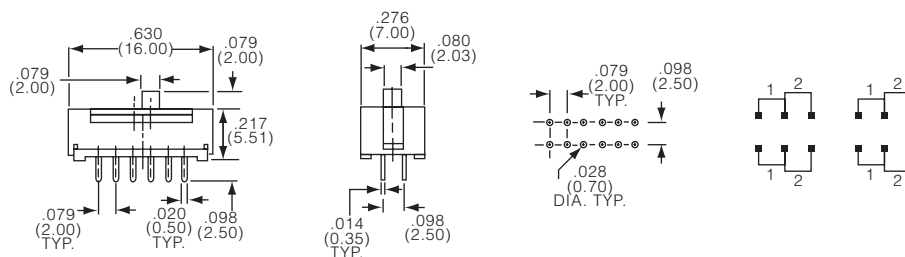
4 Pole



double throw, vertical



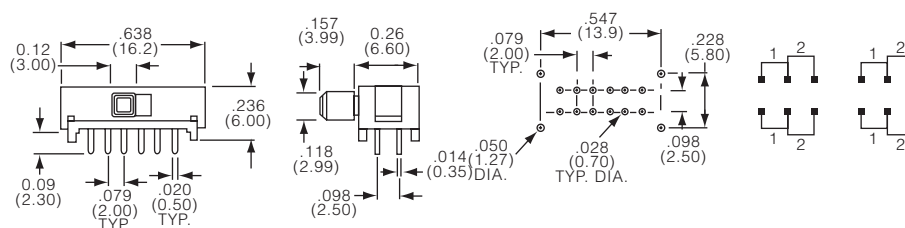
MMS42



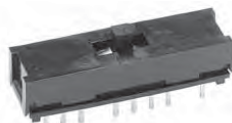
double throw, right angle



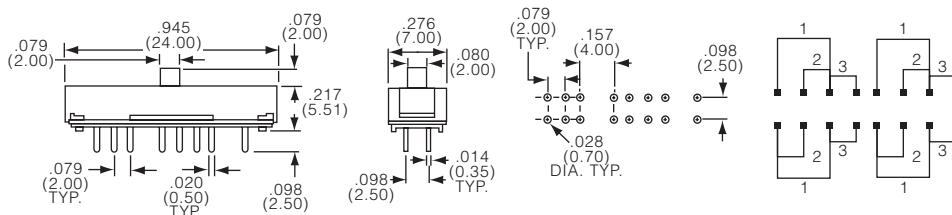
MMS42R



triple throw, vertical



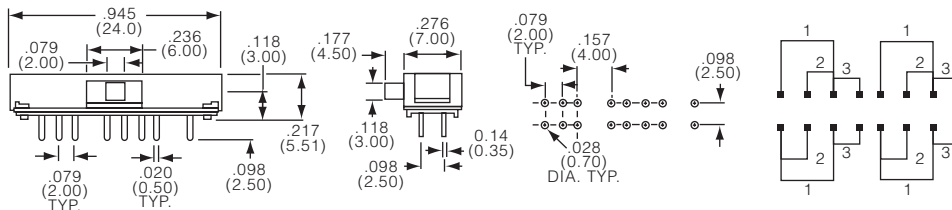
MMS43



triple throw, right angle



MMS43R



Product key	No of poles	No of throws	Actuation	Part Number
MMS12	single pole	2 throws	vertical	1437575-4
MMS22	double pole			1437575-5
MMS22R			right angle	1437575-6
MMS23		3 throws	vertical	1437575-8
MMS23R			right angle	1437575-9
MMS42	4 pole	2 throws	vertical	1-1437575-0
MMS42R			right angle	1-1437575-1
MMS43		3 throws	vertical	1-1437575-2

TSS Series, Single or Dual Actuator, THT

Features

- Break-before-Make timing
- Vertical or right angle versions



Typical performance characteristics

Contact rating..... 0.4 VA @ 20 VDC or peak AC
Electrical life..... 80,000 cycles
Mechanical life..... 80,000 cycles
Contact resistance, initial max 20 mOhm, 60 mOhm (after test)
Insulation resistance..... min 1,000 MOhm
Dielectric strength 1,000 VAC for 1 min
Actuation force 1.50 to 8.0 N (150 to 800 gf)
Actuator travel 3.05 mm (.120) average

Environmental specification

Operating temperature -20 to +80°C
Storage temperature -20 to +80°C
Solder heat resistance..... 265°C/10s Wave

Material specifications

Contacts..... copper alloy gold finish
Actuator pbt
Terminals copper alloy tin finish
Case lcp
Frame steel tin finish
RoHS Directive 2002/95/EC compliant

Product key		Typical product key		TS	S	1	1	D	G		PC	04
Type												
TS	Slide switch											
No of actuators												
S	single actuator			D	dual actuator							
No of poles												
1	single pole			2	double pole							
				4	4 pole							
Version												
1	standard version											
Actuation code												
D	On-None-On			P	On-Off-On							
E	On-Off-On			DD	(dual) On-None-On							
K	On-None-Off			EE	(dual) On-Off-On							
N	On-None-On											
Actuator version												
G	standard version											
Actuator												
blank	extended actuator			1	flush actuator							
Terminal												
PC	vertical			RA	right angle							
Material												
04	RoHS compliant											

TSS Series, Single or Dual Actuator, THT (Continued)

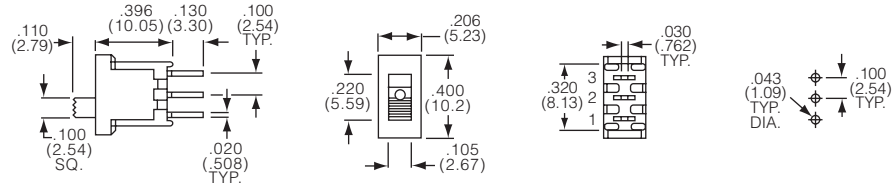
Single actuator, single pole



extended actuator, vertical



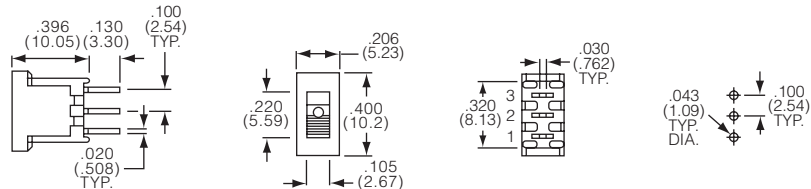
TSS11DGPC



flush actuator, vertical



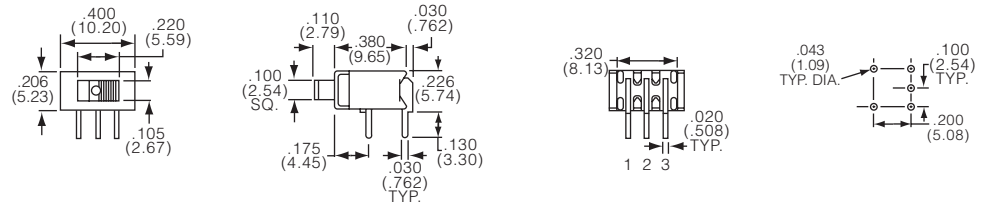
TSS11DG1PC



extended actuator, right angle



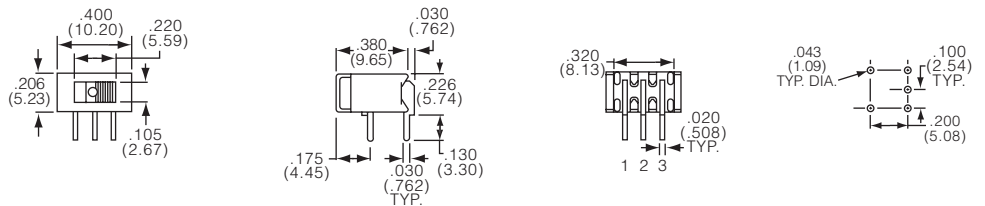
TSS11DGRA



flush actuator, right angle



TSS11DG1RA



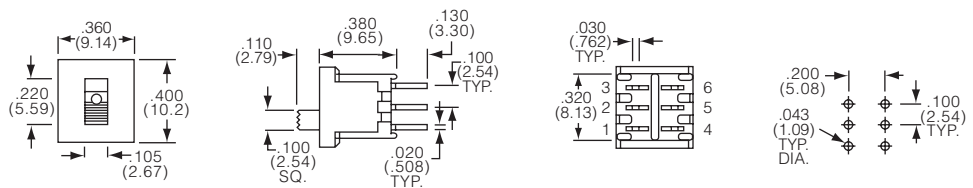
Single actuator, double pole



extended actuator, vertical



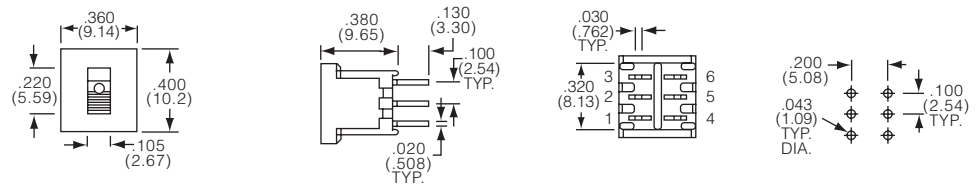
TSS21NGPC



TSS Series, Single or Dual Actuator, THT (Continued)

flush actuator, vertical

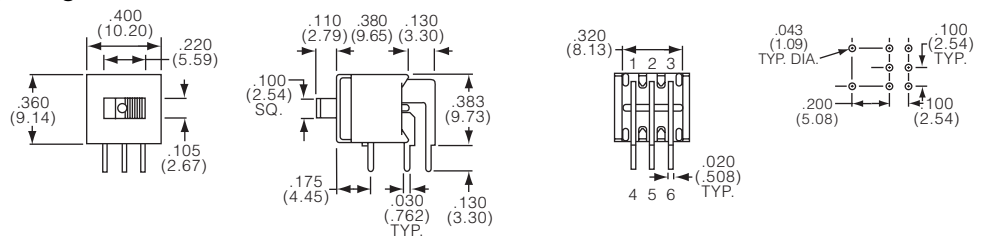
TSS21NG1PC



extended actuator, right angle



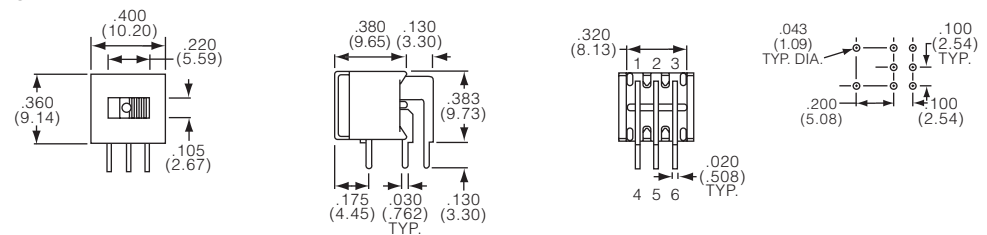
TSS21NGRA



flush actuator, right angle



TSS21NG1RA



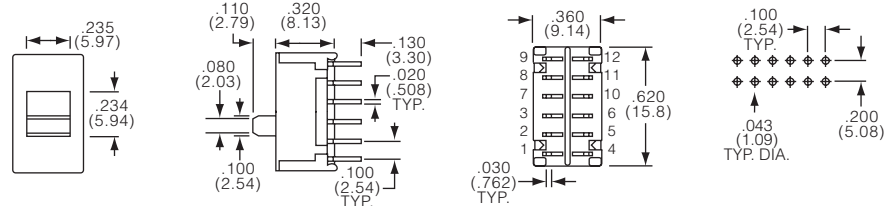
Single actuator, 4 pole



extended actuator, vertical



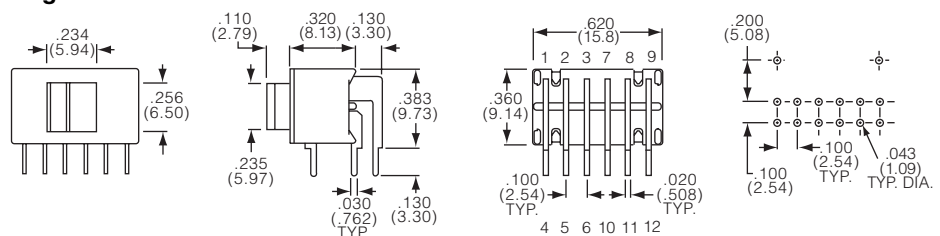
TSS41NGPC



extended actuator, right angle



TSS41NGRA



TSS Series, Single or Dual Actuator, THT (Continued)

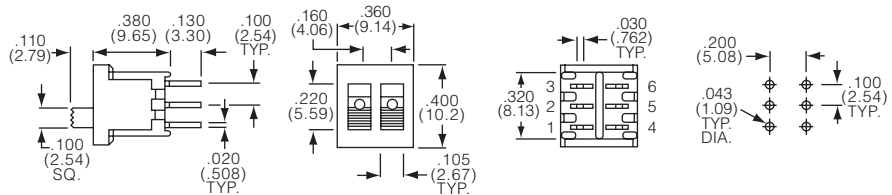
Dual actuator, single pole



extended actuator, vertical



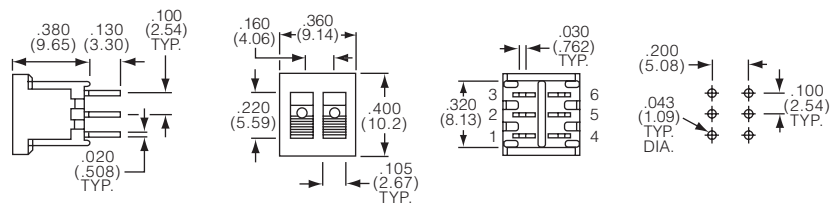
TSD21DDGPC



flush actuator, vertical



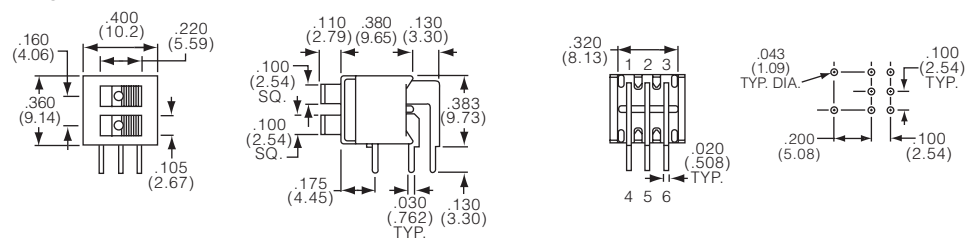
TSD21DDG1PC



extended actuator, right angle



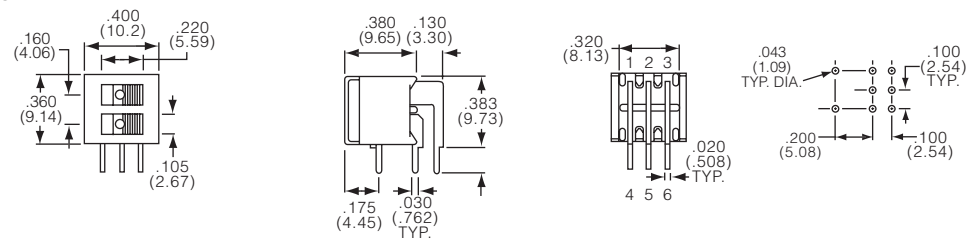
TSD21DDGRA



flush actuator, right angle



TSD21DDG1RA



TSS Series, Single or Dual Actuator, THT (Continued)

Actuation code 

Codes D, E, K, N, P, DD, EE

D On-None-On



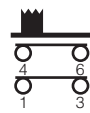
NONE



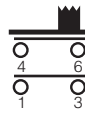
E On-Off-On



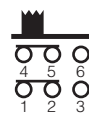
K On-None-Off



NONE



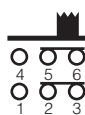
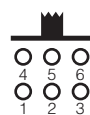
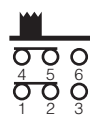
N On-None-On



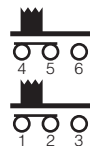
NONE



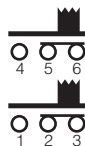
P On-Off-On



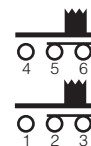
DD Dual actuator, On-None-On



NONE



EE Dual actuator, On-Off-On



Product key	No of actuators	No of poles	Actuation code	Actuator	Terminal	Material	Part Number
TSD21DDG1RA04	dual actuator	2 x single pole	On-None-On	flush	right angle	RoHS compliant	1825014-3
TSD21DDGPC04				extended	vertical		1825015-1
TSD21DDGRA04					right angle		1825014-1
TSD21EEGRA04	single actuator	single pole	On-Off-On				1825014-2
TSS11DG1PC04			On-None-On	flush	vertical		1571982-1
TSS11DG1RA04					right angle		1571985-1
TSS11DGPC04				extended	vertical		1571982-2
TSS11DGRA04					right angle		1571984-1
TSS11EG1PC04		double pole	On-Off-On	flush	vertical		1571982-3
TSS11EG1RA04					right angle		1571985-2
TSS11EGPC04				extended	vertical		1571982-4
TSS11EGRA04					right angle		1571984-2
TSS21KGPC04			On-None-Off		vertical		1571982-5
TSS21NG1PC04			On-None-On	flush			1571982-6
TSS21NG1RA04					right angle		1571985-3
TSS21NGPC04				extended	vertical		1571982-7
TSS21NGRA04					right angle		1571984-3
TSS21PG1PC04			On-Off-On	flush	vertical		1571982-8
TSS21PG1RA04					right angle		1571985-4
TSS21PGPC04				extended	vertical		1571982-9
TSS21PGRA04		4 pole	On-None-On		right angle		1571984-4
TSS41NGPC					vertical		2-1437579-5
TSS41NGRA					right angle		2-1437579-7

Preferred parts in bold print

MHS Series, Low Profile, Instrumentation Grade, THT

Features

- Upright or right angle
- Gold or silver contact finish
- Various actuator styles
- Make-before-Break timing



Typical performance characteristics

Contact rating, gold: 0.4 VA @ 20 VDC or Peak AC
 silver: 300 milliamp @ 125 VAC
 Electrical life, 15,000 cycles
 Mechanical life, 15,000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance, min 1,000 MOhm
 Dielectric strength 500 V for 1 min
 Actuation force, 6.0 N (600 gf) average
 Actuator travel 2.00 mm (.079) average
 MHS122: 4.00 mm (.157) average

Environmental specification

Operating temperature -20 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance, 265°C/10s wave

Material specifications

Contacts copper alloy silver or gold finish
 Actuator, pom
 Terminals, copper alloy silver or gold finish
 Frame steel nickel finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

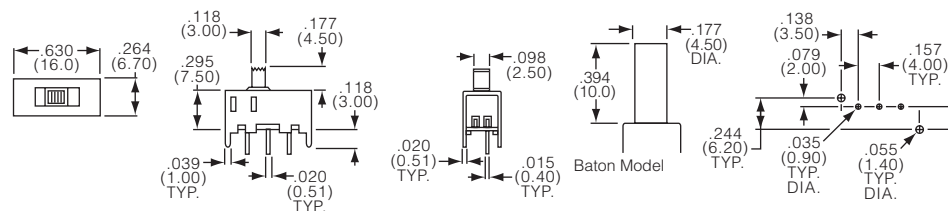
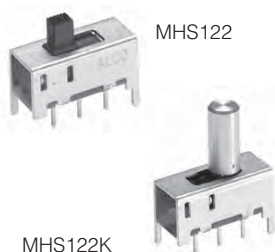
Product key		Typical product key		MHS	1	3	3	K	G	04
Type										
MHS	Slide switch, low profile, instrumentation grade									
No of poles										
1	single pole		2	double pole						
No of throws										
2	2 throws		3	3 throws						
No of positions										
2	2 positions		3	3 positions						
Actuator										
blank	standard		K	baton						
Contact finish										
blank	silver		G	gold						
Actuation										
blank	vertical		RA	right angle						
Material										
04	RoHS compliant									

MHS Series, Low Profile, Instrumentation Grade, THT (Continued)

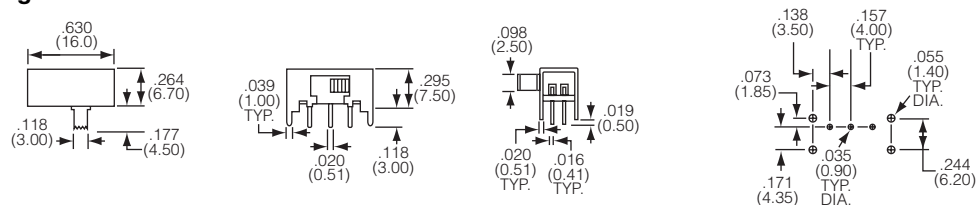
Single pole



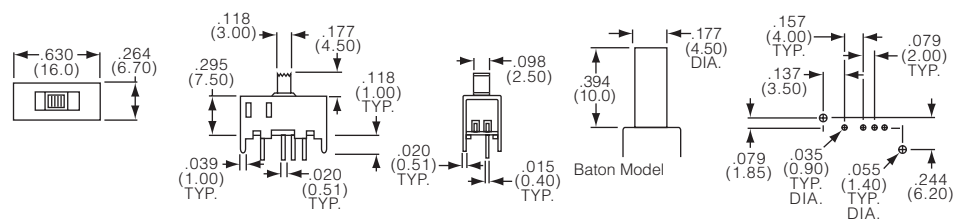
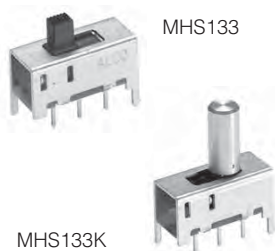
double throw, vertical



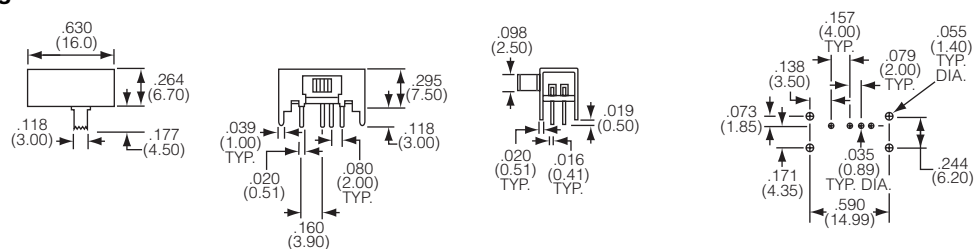
double throw, right angle



triple throw, vertical



triple throw, right angle

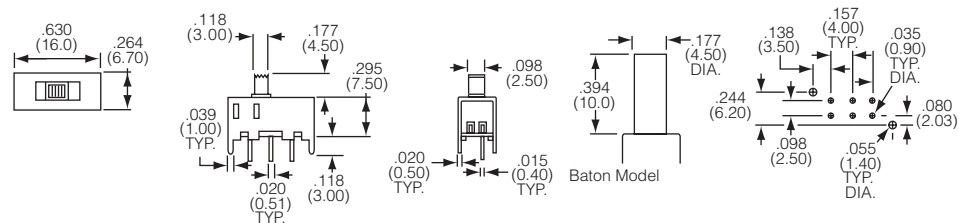
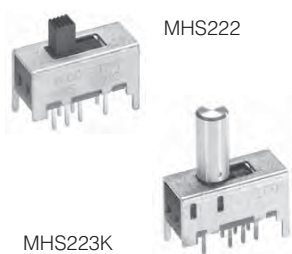


MHS Series, Low Profile, Instrumentation Grade, THT (Continued)

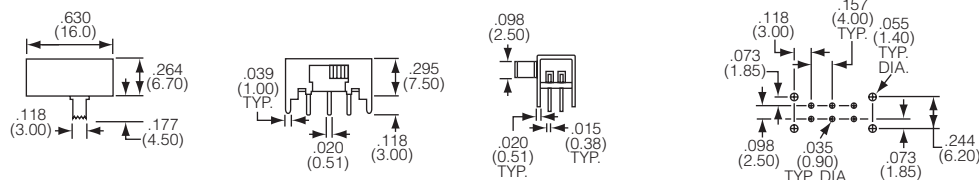
Double pole



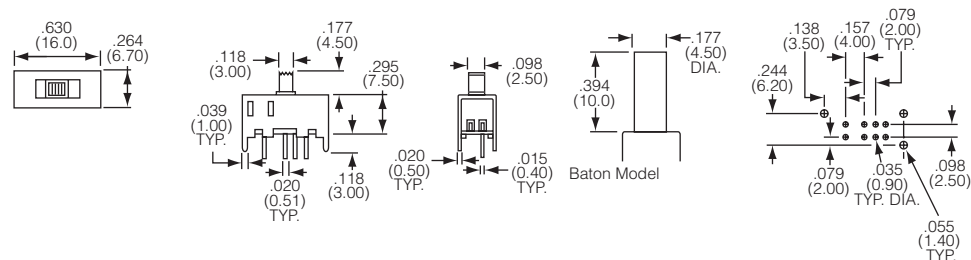
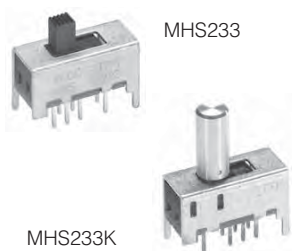
double throw, vertical



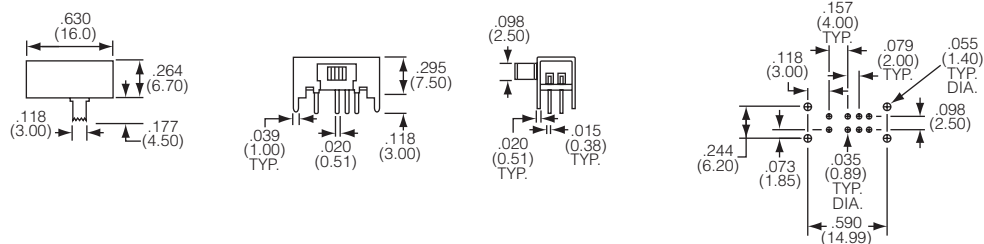
double throw, right angle



triple throw, vertical



triple throw, right angle



MHS Series, Low Profile, Instrumentation Grade, THT (Continued)

Function

Poles	Throws	Positions	Function
1	2	2	
1	2	3	
1	3	3	
2	2	2	
2	2	3	
2	3	3	

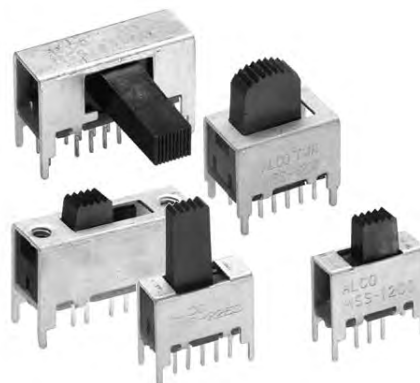
Product key	No of poles	No of throws	No of positions	Actuator	Contact finish	Material	Part Number
MHS12204	single pole	2 throws	2 positions	standard	silver	RoHS compliant	1825255-1
MHS122G04					gold		1825255-2
MHS122GRA04				baton	silver		1825255-3
MHS122K04					gold		1825255-4
MHS122RA04				standard	silver		1825256-1
MHS12304					gold		1825255-5
MHS123GRA04			3 positions	baton	silver		1825256-5
MHS123K04					gold		1825255-6
MHS123RA04		3 throws		standard	silver		1825256-2
MHS13304					gold		1825255-7
MHS133G04					silver		1825255-8
MHS133GRA04					gold		1825256-6
MHS133K04				baton	silver		1825255-9
MHS133KG04					gold		1-1825255-0
MHS133RA04				standard	silver		1825256-3
MHS22204					gold		1825289-1
MHS222G04	double pole	2 throws	2 positions		silver		1825289-2
MHS222GRA04					gold		1825290-4
MHS222K04				baton	silver		1825289-3
MHS222KG04					gold		1825289-4
MHS222RA04				standard	silver		1825290-1
MHS22304					gold		1825289-5
MHS223G04			3 positions		silver		1825289-6
MHS223GRA04					gold		1825290-5
MHS223K04				baton	silver		1825289-7
MHS223RA04					gold		1825290-2
MHS23304		3 throws		standard	silver		1825289-8
MHS233G04					gold		1825289-9
MHS233GRA04					silver		1825290-6
MHS233K04					gold		1-1825289-0
MHS233KG04				baton	silver		1-1825289-1
MHS233RA04					gold		1825290-3

Preferred parts in bold print

MSS Series, Instrumentation Grade, THT

Features

- Upright or right angle
- Gold or silver contact finish
- Various actuator heights
- Make-before-Break timing



Typical performance characteristics

Contact rating, gold: 0.4 VA @ 20 VDC or peak AC
 silver: 300 milliamp @ 125 VAC
 Electrical life, 15,000 cycles
 Mechanical life, 15,000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance, min 1,000 MOhm
 Dielectric strength 500 V for 1 min
 Actuation force, 6.0 N (600 gf) average
 Actuator travel 2.0 mm (.079) average

Environmental specification

Operating temperature -20 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance, 265°C/10s wave

Material specifications

Contacts copper alloy silver or gold finish
 Actuator, pom
 Terminals, copper alloy silver or gold finish
 Frame steel nickel finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key		Typical product key		MSS	1	2	00	R	G	04
Type										
MSS	Slide switch, instrumentation grade									
No of poles										
1	single pole	4	4 pole							
2	double pole	6	6 pole							
No of throws										
2	2 throws	4	4 throws							
3	3 throws									
Actuator length										
00	standard	35	xx-long							
25	x-long	50	xxx-long							
Actuation										
blank	vertical	R	right angle							
Contact finish										
blank	silver	G	gold							
Material										
04	RoHS compliant									

MSS Series, Instrumentation Grade, THT (Continued)

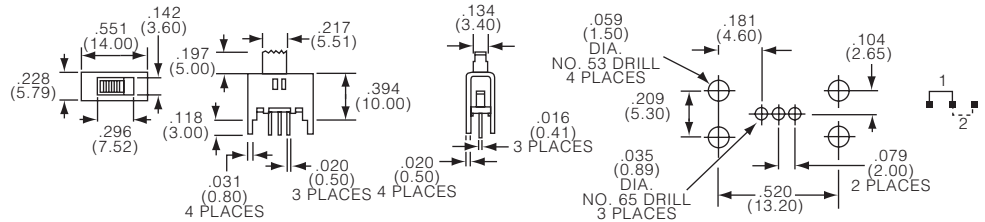
Single pole



2 throws, standard actuator length, vertical



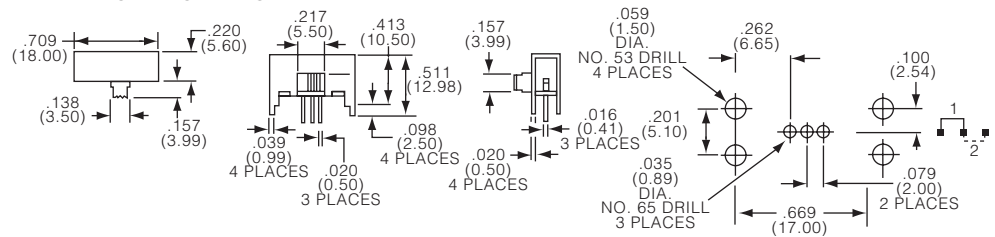
MSS1200



2 throws, standard actuator length, right angle



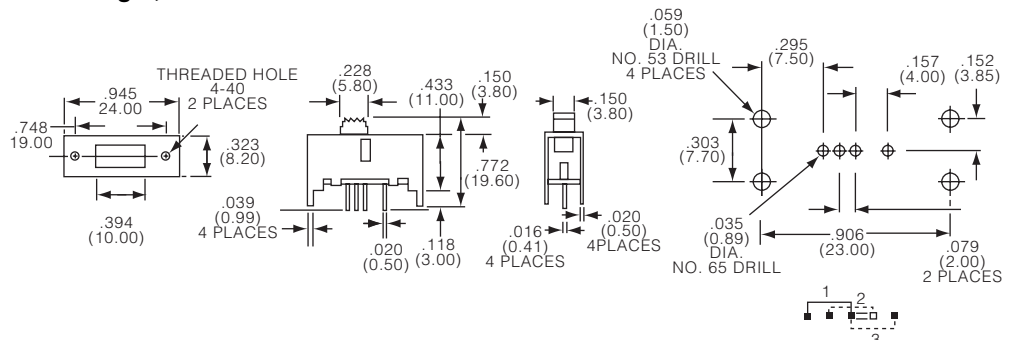
MSS1200R



3 throws, standard actuator length, vertical



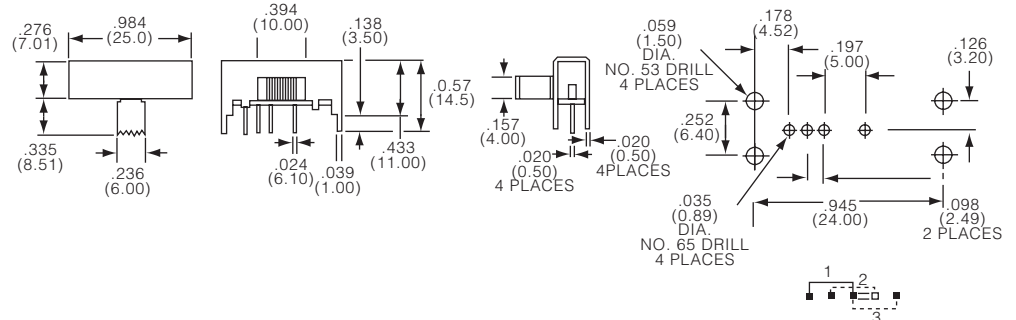
MSS1300



3 throws, standard actuator length, right angle

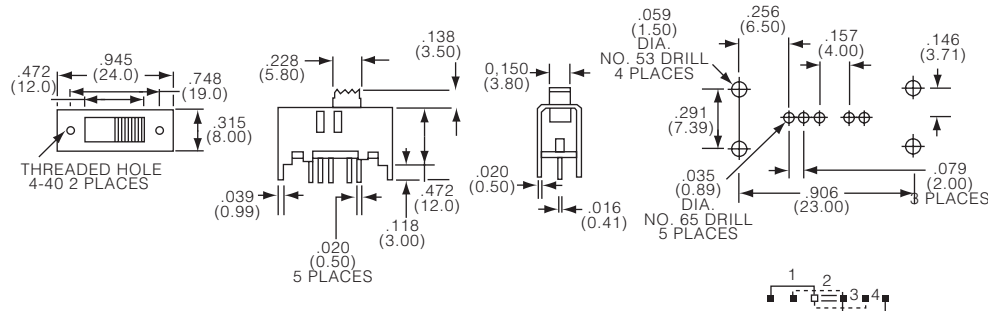


MSS1300R



MSS Series, Instrumentation Grade, THT (Continued)

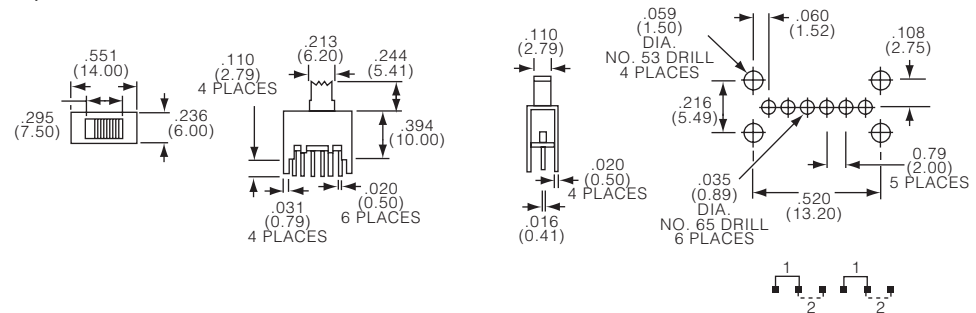
4 throws, standard actuator length, vertical



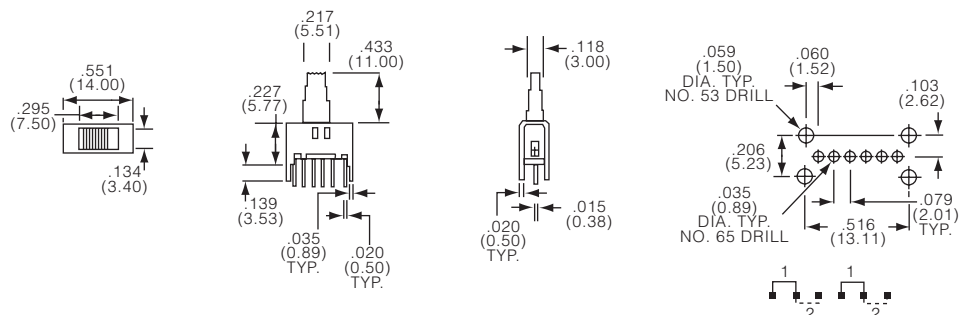
Double pole



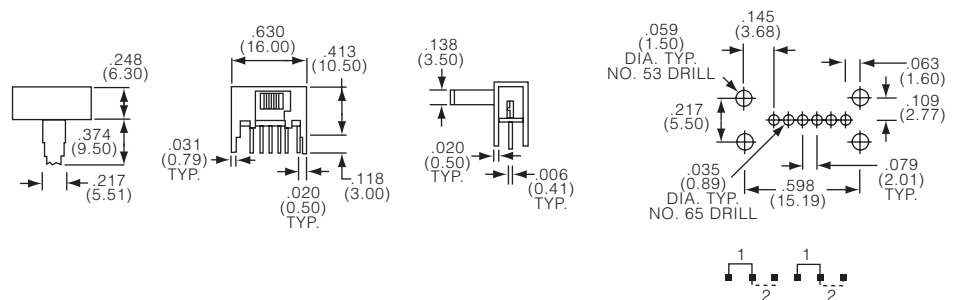
2 throws, x-long actuator, vertical



2 throws, xxx-long actuator, vertical



2 throws, xxx-long actuator, right angle



MSS Series, Instrumentation Grade, THT (Continued)

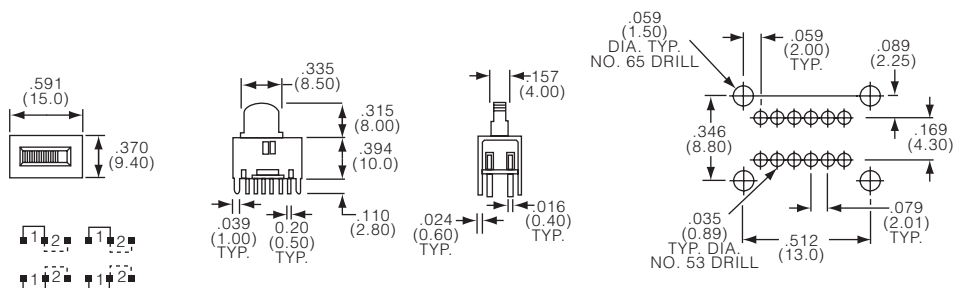
4 poles



2 throws, xxx-long actuator, vertical



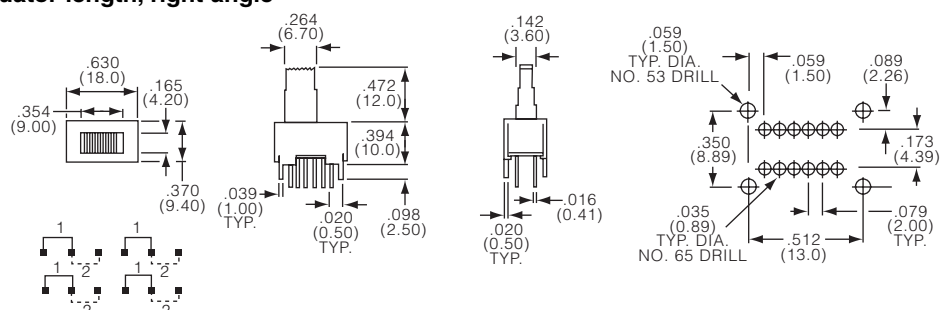
MSS4200



2 throws, standard actuator length, right angle



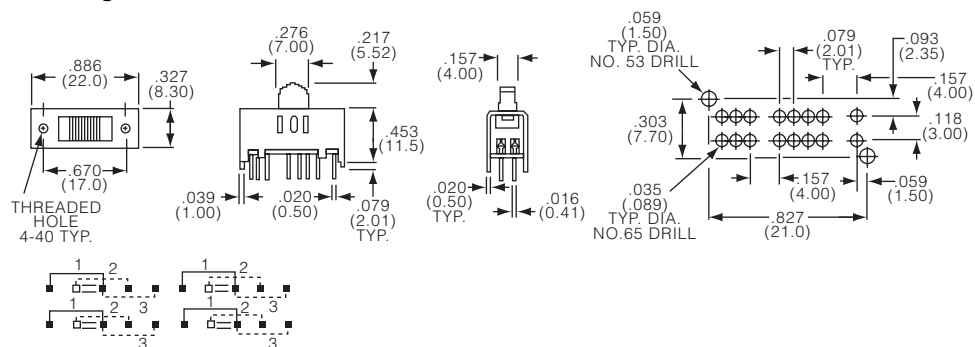
MSS4250



3 throws, standard actuator length, vertical



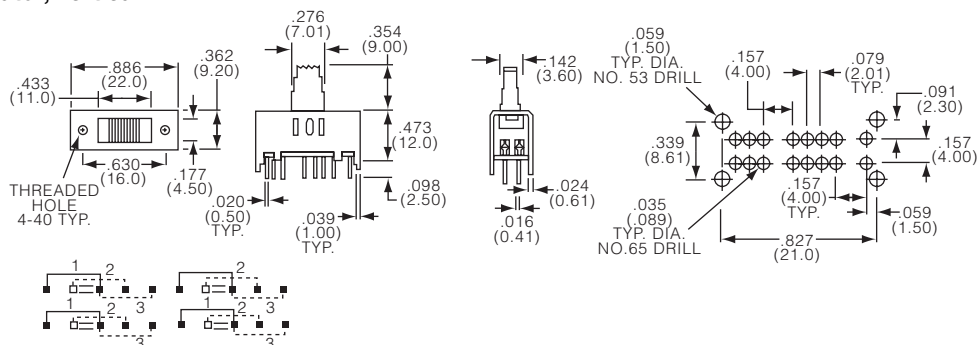
MSS4300



3 throws, xx-long actuator, vertical



MSS4335

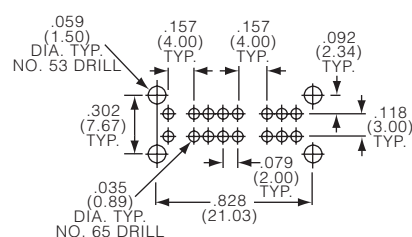
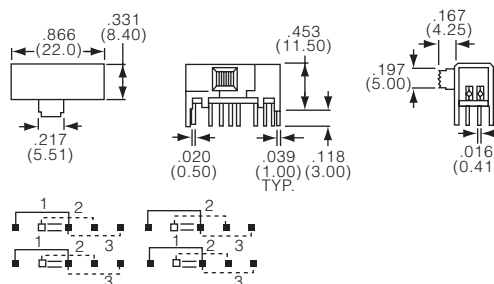


MSS Series, Instrumentation Grade, THT (Continued)

3 throws, standard actuator length, right angle



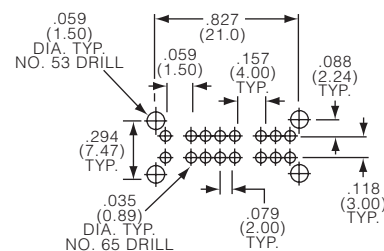
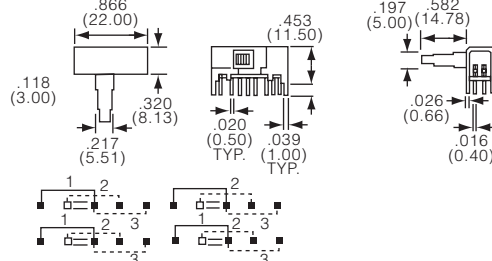
MSS4300R



3 throws, xxx-long actuator length, right angle



MSS4350R



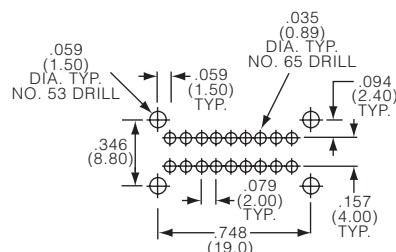
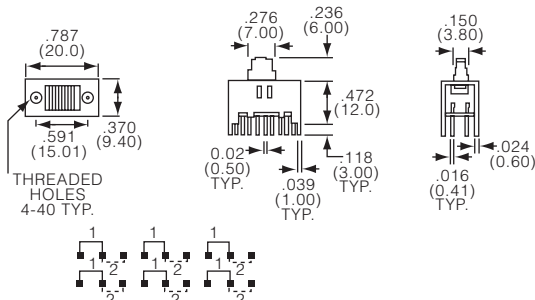
6 poles



2 throws, standard actuator length, vertical



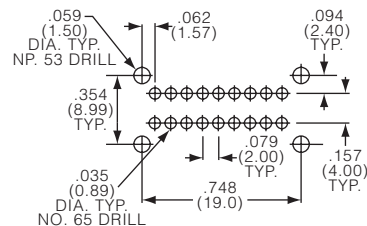
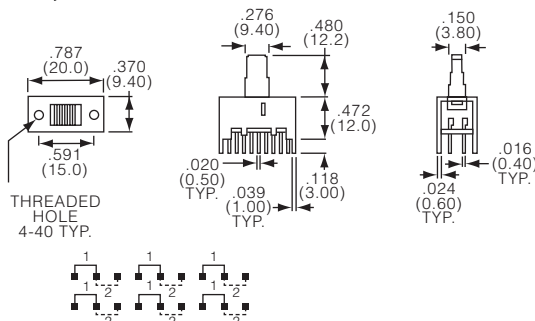
MSS6200



2 throws, xxx-long actuator, vertical

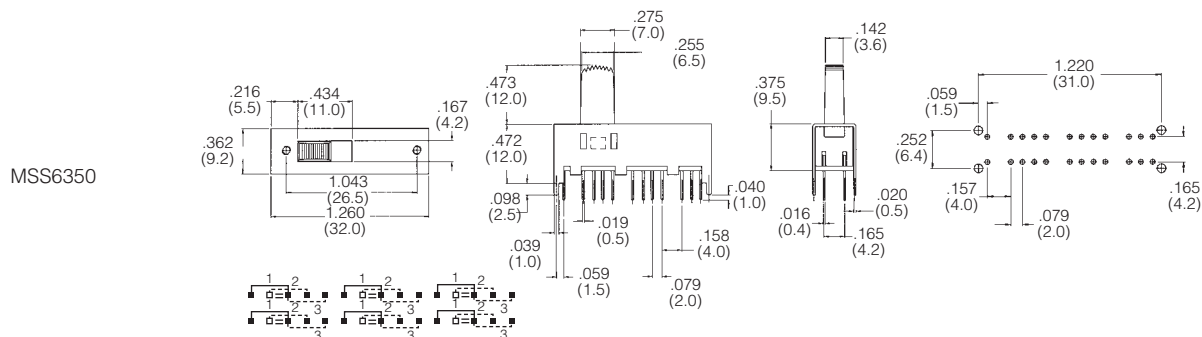


MSS6250

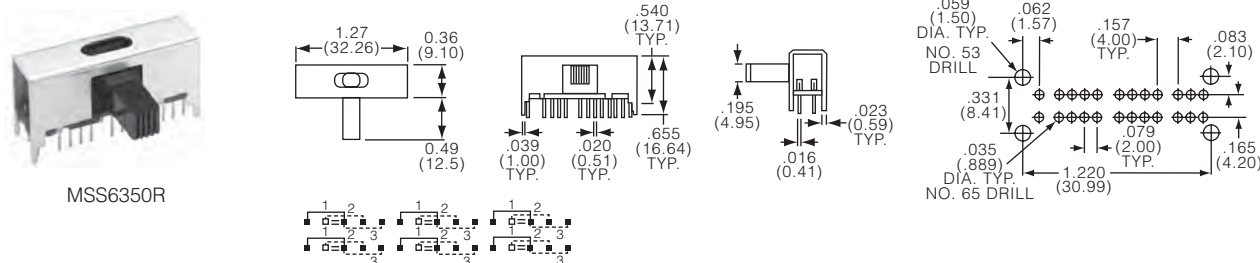


MSS Series, Instrumentation Grade, THT (Continued)

3 throws,xxx-long actuator, vertical



3 throws, xxx-long actuator, right angle



Product key	No of poles	No of throws	Actuator length	Actuation	Contact finish	Material	Part Number
MSS120004	single pole	2 throws	standard	vertical	silver	RoHS compliant	1825257-1
MSS1200G04					gold		1825257-2
MSS1200R04		3 throws		right-angle	silver		1825258-1
MSS1200RG04					gold		1825258-2
MSS130004		3 throws		vertical	silver		1825259-1
MSS1300G04					gold		1825259-2
MSS1300R04		4 throws		right-angle	silver		1825260-1
MSS1300RG04					gold		1825260-2
MSS140004		4 throws		vertical	silver		1571423-2
MSS1400G04					gold		1571423-1
MSS220004		2 throws			silver		1825261-1
MSS2200G04					gold		1825261-2
MSS222504	double pole		x-long		silver		1825262-1
MSS2225G04					gold		1825262-2
MSS225004		xxx-long			silver		1825263-1
MSS2250G04					gold		1825263-2
MSS2250R04				right-angle	silver		1571630-2
MSS2250RG04					gold		1571630-3
MSS420004	4 pole		standard	vertical	silver		1825264-1
MSS4200G04					gold		1825264-2
MSS4200R04		3 throws		right-angle	silver		1825265-1
MSS4200RG04					gold		1825265-2
MSS425004			xxx-long	vertical	silver		1825266-1
MSS430004			standard		gold		1825267-1
MSS4300G04		3 throws		right-angle	silver		1825267-2
MSS4300R04					gold		1825268-1
MSS4300RG04					silver		1825268-2
MSS433504					gold		1825269-1
MSS4350R04		xxx-long		vertical	silver		1825270-1
MSS4350RG04				right-angle	gold		1825270-2
MSS620004	6 pole	2 throws	standard	vertical	silver		1825271-1
MSS6200G04					gold		1825271-2
MSS625004		3 throws	xxx-long		silver		1825272-1
MSS635004					gold		1825273-1
MSS6350R04				right-angle			1825274-1

Preferred parts in bold print

MSSA Series, Instrumentation Grade, THT

Features

- Upright or right angle
- Gold or silver contact finish
- Make-before-Break timing
- Multiple pole and throw options



Typical performance characteristics

Contact rating gold: 0.4 VA @ 20 VDC or peak AC
 silver: 300 milliamp @ 125 VAC
 Electrical life. 15,000 cycles
 Mechanical life. 15,000 cycles
 Contact resistance, initial max 30 mOhm, 100 mOhm (after test)
 Insulation resistance. min 1,000 MOhm
 Dielectric strength 500 V for 1 min
 Actuation force. 6.0 N (600 gf) average
 Actuator travel 2.00 mm (.079) average

Environmental specification

Operating temperature -20 to +85°C
 Storage temperature -40 to +100°C
 Solder heat resistance. 265°C/10s wave

Material specifications

Contacts copper alloy silver or gold finish
 Actuator nylon 66
 Terminals copper alloy silver or tin finish
 Frame steel tin finish
 Terminal board phenolic
 RoHS Directive 2002/95/EC compliant

Product key		Typical product key		MSSA	2	4	50		G	04
Type		MSSA				Slide switch, instrumentation grade				
No of poles		1		single pole	3		tripple pole			
2		double pole		4		4 pole				
No of throws		3		3 throws		4			4 throws	
Actuator length		50		standard version						
Actuation		blank		vertical		R			right angle	
Contact finish		blank		silver		G			gold	
Material		04		RoHS compliant						

MSSA Series, Instrumentation Grade, THT (Continued)

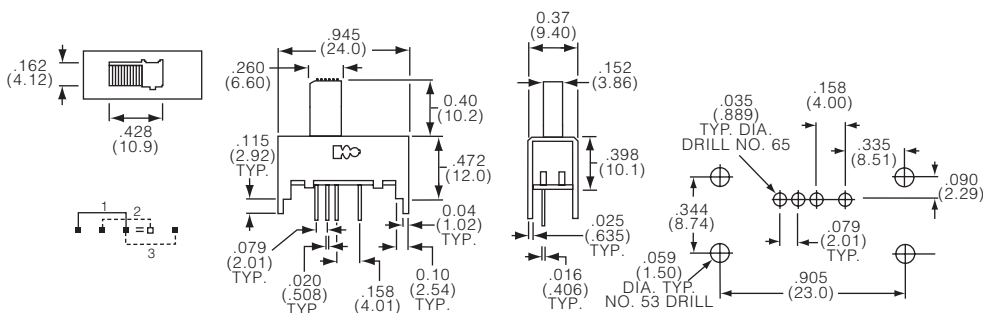
Single pole



3 throws, vertical



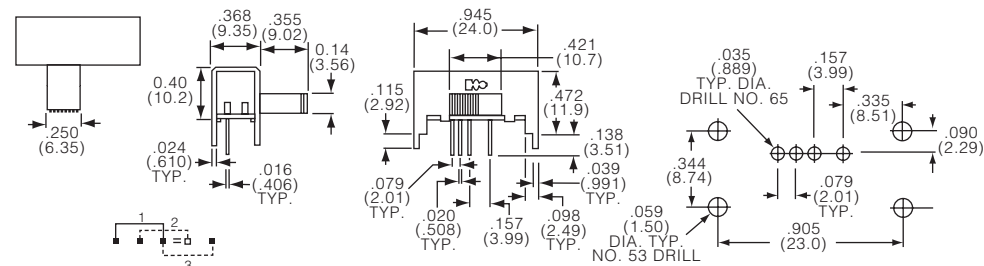
MSSA1350



3 throws, right angle



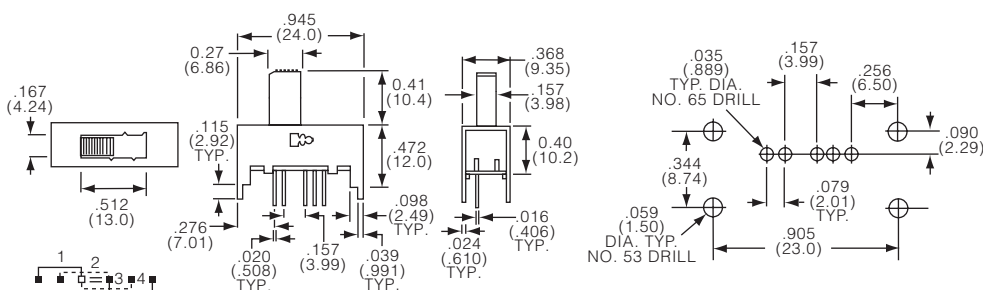
MSSA1350R



4 throws, vertical



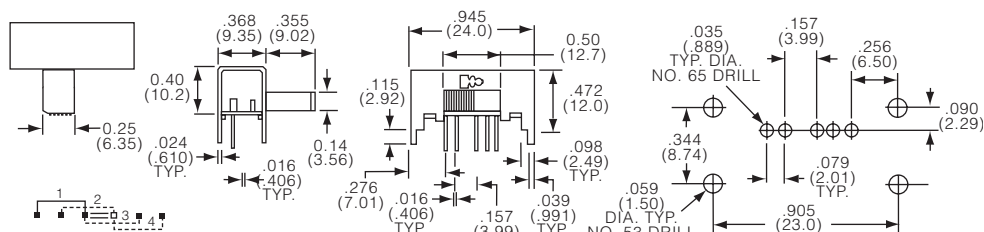
MSSA1450



4 throws, right angle



MSSA1450R



MSSA Series, Instrumentation Grade, THT (Continued)

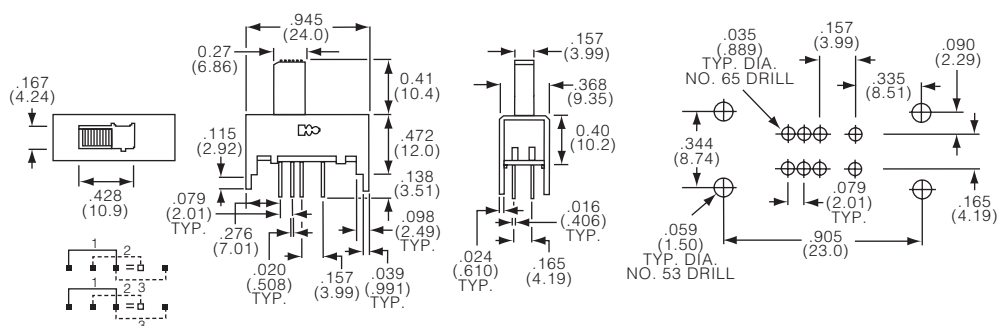
Double pole



3 throws, vertical



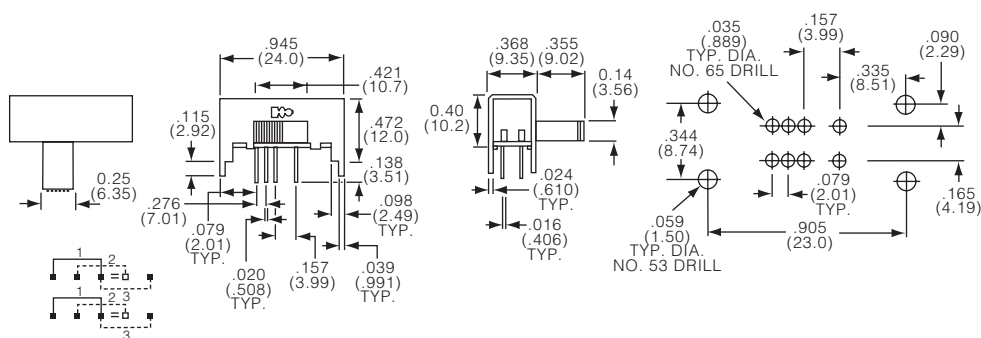
MSSA2350



3 throws, right angle



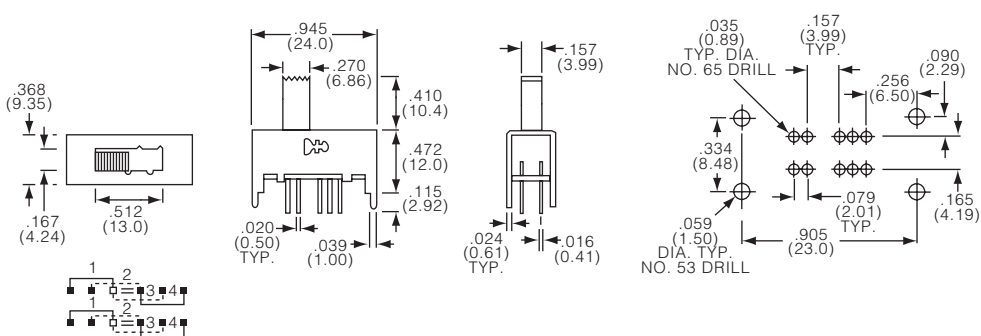
MSSA2350R



4 throws, vertical



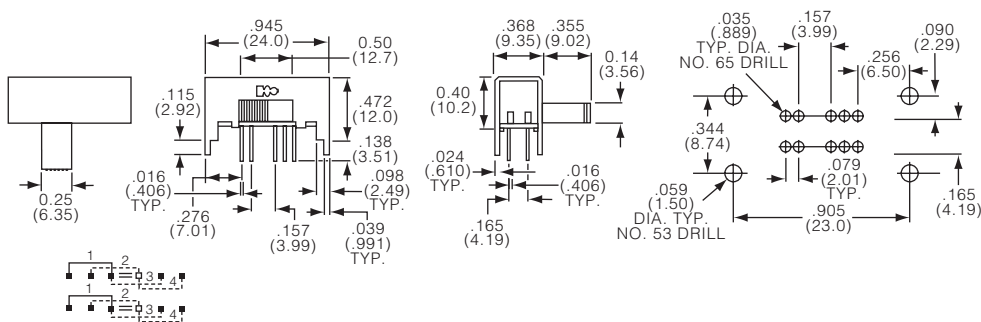
MSSA2450



4 throws, right angle



MSSA2450R



MSSA Series, Instrumentation Grade, THT (Continued)

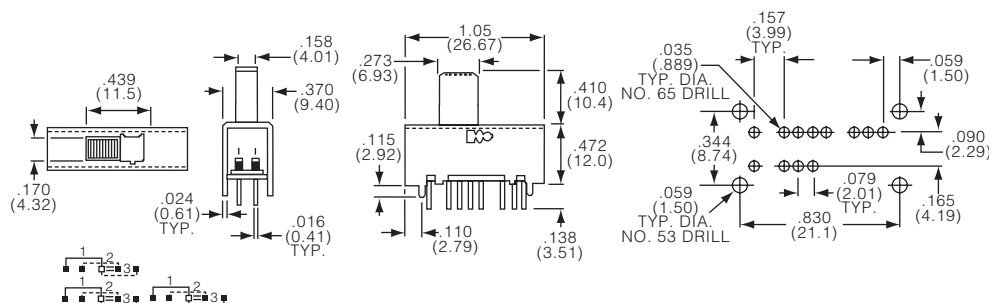
3 pole



3 throws, vertical



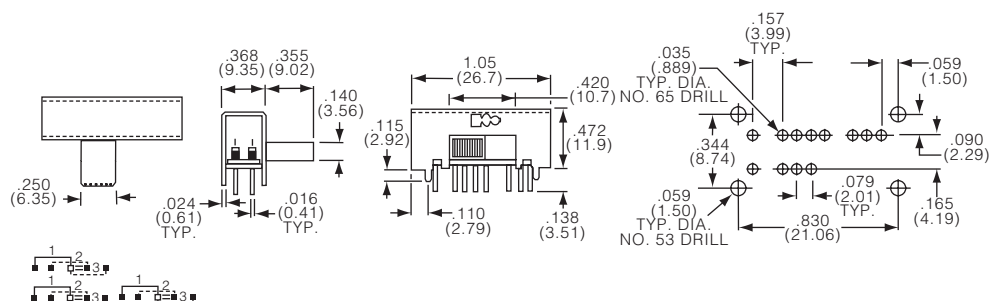
MSSA3350



3 throws, right angle



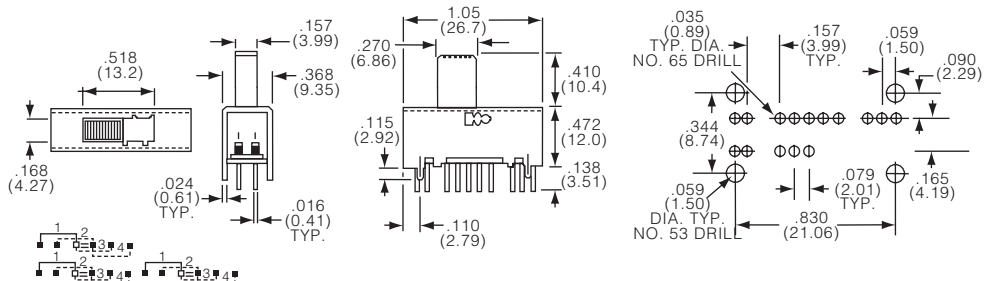
MSSA3350R



4 throws, vertical



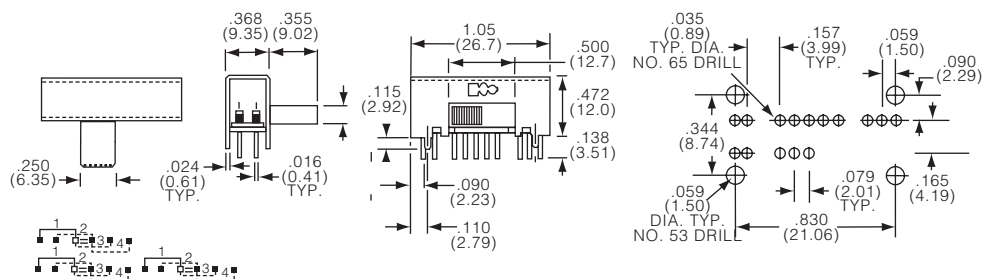
MSSA3450



4 throws, right angle



MSSA3450R

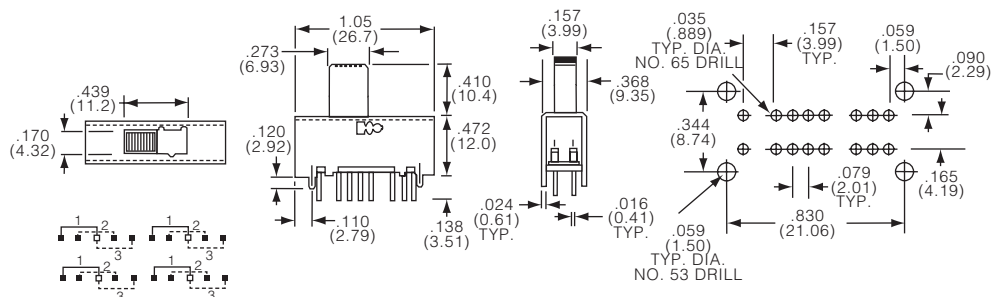


— 424 —

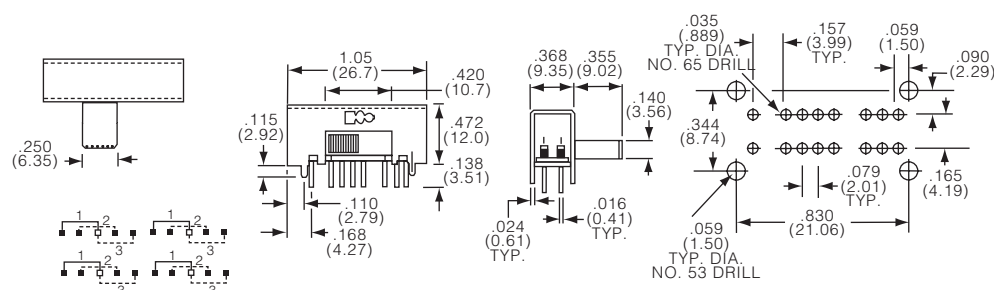
4 pole



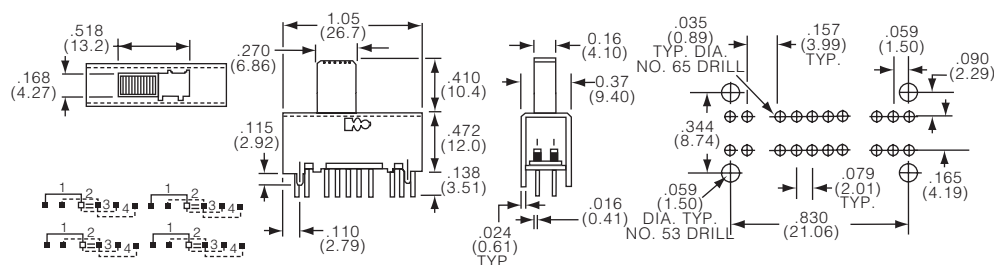
3 throws, vertical



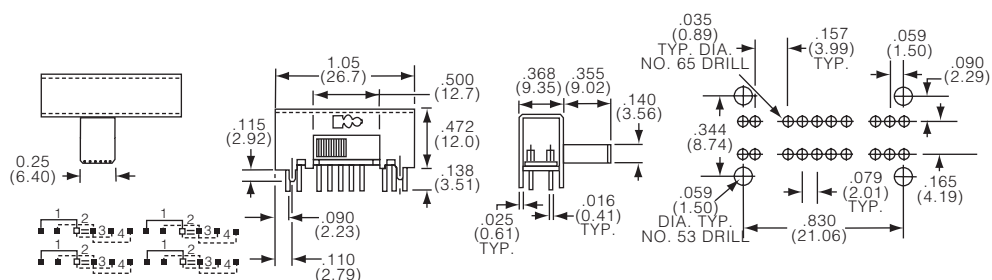
3 throws, right angle



4 throws, vertical



4 throws, right angle



MSSA Series, Instrumentation Grade, THT (Continued)

Product key	No of poles	No of throws	Actuation	Contact finish	Material	Part Number		
MSSA135004	single pole	3 throws	vertical	silver	RoHS compliant	1825194-1		
MSSA1350G04				gold		1825194-2		
MSSA1350R04			right angle	silver		1825195-1		
MSSA1350RG04						gold	1825195-2	
MSSA145004		4 throws	vertical	silver		1825196-1		
MSSA1450G04				gold		1825196-2		
MSSA1450R04			right angle	silver		1825197-1		
MSSA1450RG04						gold	1825197-2	
MSSA235004	double pole	3 throws	vertical	silver		1825198-1		
MSSA2350G04				gold		1825198-2		
MSSA2350R04			right angle	silver		1825199-1		
MSSA2350RG04						gold	1825199-2	
MSSA245004		4 throws	vertical	silver		1825200-1		
MSSA2450G04				gold		1825200-2		
MSSA2450R04			right angle	silver		1825201-1		
MSSA2450RG04						gold	1825201-2	
MSSA335004	triple pole	3 throws	vertical	silver		1825202-1		
MSSA3350G04				gold		1825202-2		
MSSA435004				silver		1825202-3		
MSSA4350G04						gold	1825202-4	
MSSA3350R04	triple pole		right angle	silver		1825203-1		
MSSA3350RG04						gold	1825203-2	
MSSA4350R04							silver	1825203-3
MSSA4350RG04								gold
MSSA345004	triple pole	4 throws	vertical	silver		1825204-1		
MSSA3450G04				gold		1825204-2		
MSSA445004				silver		1825204-3		
MSSA4450G04						gold	1825204-4	
MSSA3450R04	triple pole		right angle	silver		1825205-1		
MSSA3450RG04						gold	1825205-2	
MSSA4450R04							silver	1825205-3
MSSA4450RG04								gold

SDS Series, Decorative Instrument Grade, THT

Features

- High reliability contact system
- Robust actuator for easy actuation
- Make-before-Break timing



Typical performance characteristics

Contact rating..... 250 milliamps @125 VAC
Electrical life..... 10.000 cycles
Mechanical life..... 10.000 cycles
Contact resistance, initial max 20 mOhm, 60 mOhm (after test)
Insulation resistance min 500 MOhm
Dielectric strength..... 500 VAC for 1 min
Actuation force..... 1.0 to 7.0 N (100 to 700 gf)
Actuator travel 2.0 (.079) average

Environmental specification

Operating temperature -10 to +60°C
Storage temperature -10 to +60°C
Solder heat resistance..... 265°C/10s wave

Material specifications

Contacts copper alloy silver finish
Actuator pbt
Terminals copper alloy silver finish
Case steel zinc finish
Terminal board phenolic
RoHS Directive 2002/95/EC compliant

Product key

Typical product key

SDS 1 2 40 RA 0

Type

SDS Slide switch, decorative instrument grade

No of poles

1 single pole **2** double pole

No of throws

2 two throws **3** three throws

Version

40 standard version

Terminal

RA right angle

Actuator color

0 black **8** gray

SDS Series, Decorative Instrument Grade, THT (Continued)

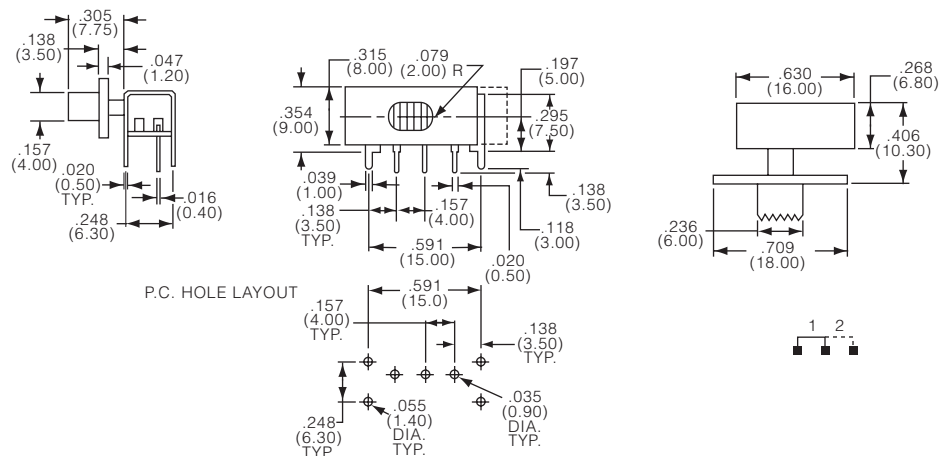
Single pole



2 throws



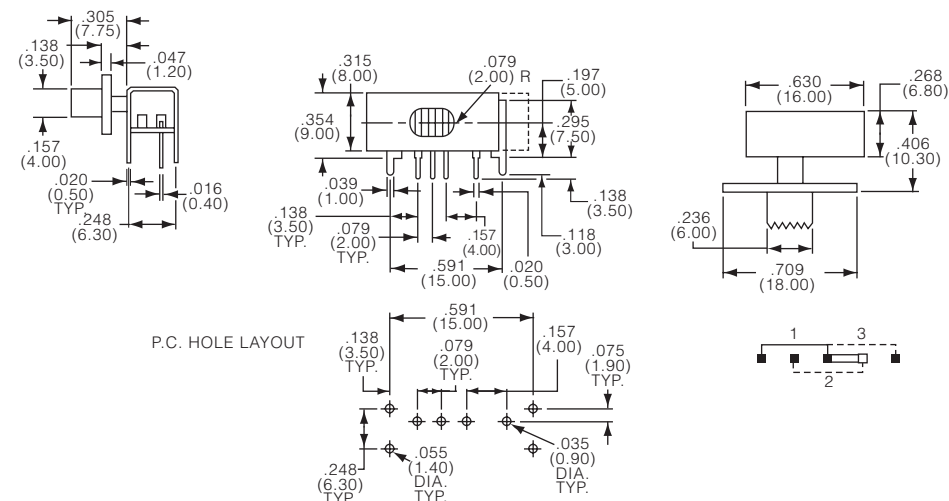
SDS1240RA0



3 throws



SDS1340RA0



SDS Series, Decorative Instrument Grade, THT (Continued)

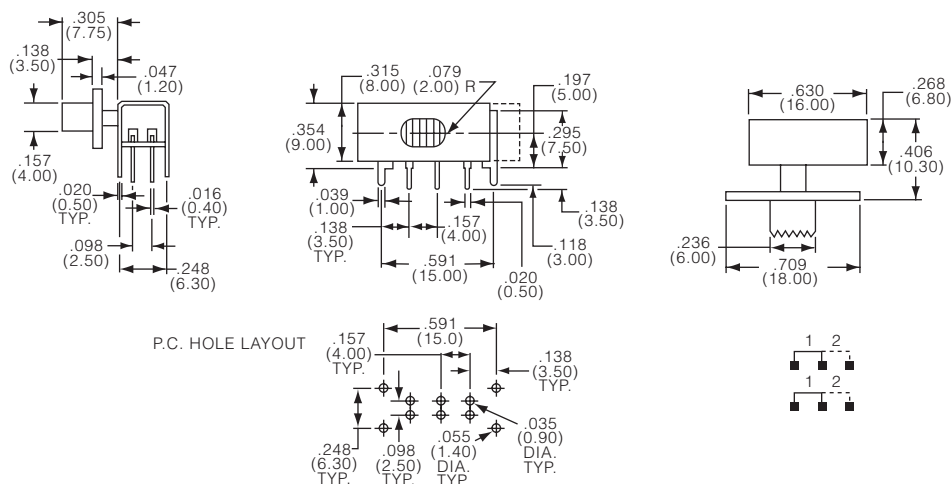
Double pole



2 throws



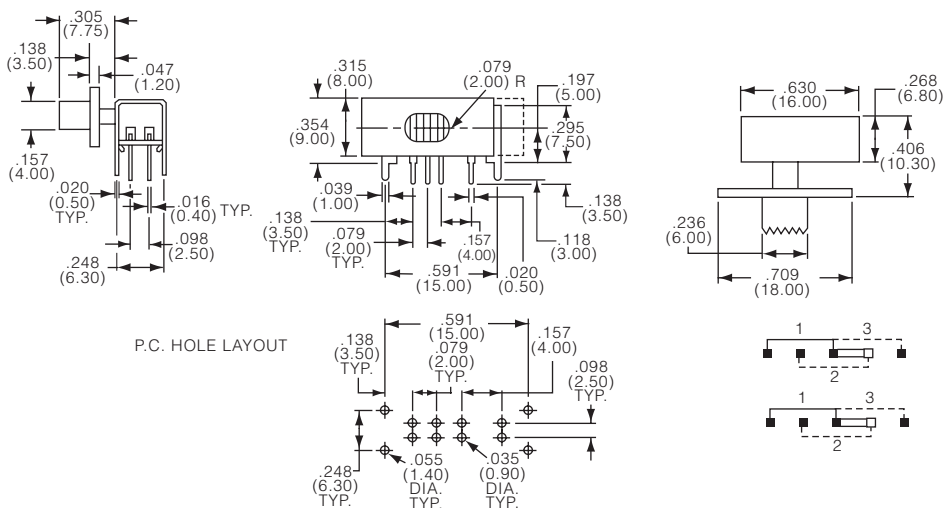
SDS2240RA0



3 throws



SDS2340RA0



Product key	No of poles	No of throws	Terminal	Actuator color	Part Number
SDS1240RA0	single pole	2 throws	right angle	black	1437577-2
SDS1240RA8				gray	1437577-3
SDS1340RA0		3 throws		black	1437577-4
SDS1340RA8				gray	1437577-5
SDS2240RA0	double pole	2 throws		black	1437577-6
SDS2340RA0					

CST Series, Baton Toggle, Multiple Pole, THT

Features

- High reliability contact system
- Baton toggle actuator for easy actuation
- Break-before-Make timing



Typical performance characteristics

Contact rating	300 milliamps @ 125 VAC
	200 milliamps @ 12 VDC
Electrical life	no load: 10,000 cycles
	at rated current: 8,000 cycles
Mechanical life	10,000 cycles
Contact resistance, initial	max 30 mOhm, 60 mOhm (after test)
Insulation resistance	min 500 MOhm
Dielectric strength	500 VAC for 1 min
Actuation force	5.5 +/-2.5 N (550 +/-250 gf)
Actuator travel	3.20 mm (.126)

Environmental specification

Operating temperature	-15 to +55°C
Storage temperature	-20 to +60°C
Solder heat resistance	265°C/10s wave

Material specifications

Contacts	copper alloy silver finish
Actuator	aluminum
Slider	pbt
Terminals	copper alloy silver finish
Frame	steel tin finish
Terminal board	phenolic
RoHS Directive 2002/95/EC	compliant

Product key		Typical product key		CST	04	2	NK
Type							
CST	Slide switch, baton toggle, multiple pole						
No of poles							
02	2 poles	06	6 poles				
04	4 poles						
No of throws							
2	2 throws	3	3 throws				
Version							
NK	standard						

CST Series, Baton Toggle, Multiple Pole, THT (Continued)

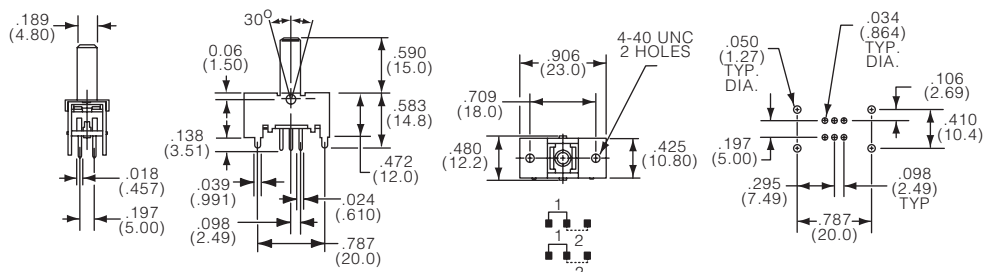
2 poles



double throw



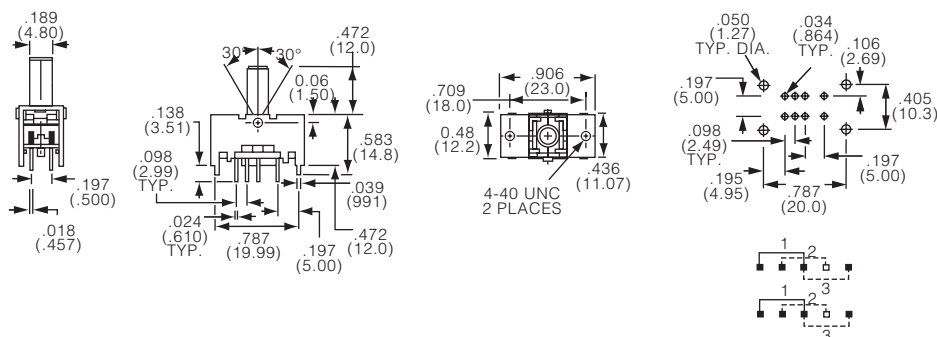
CST022NK



triple throw



CST023NK



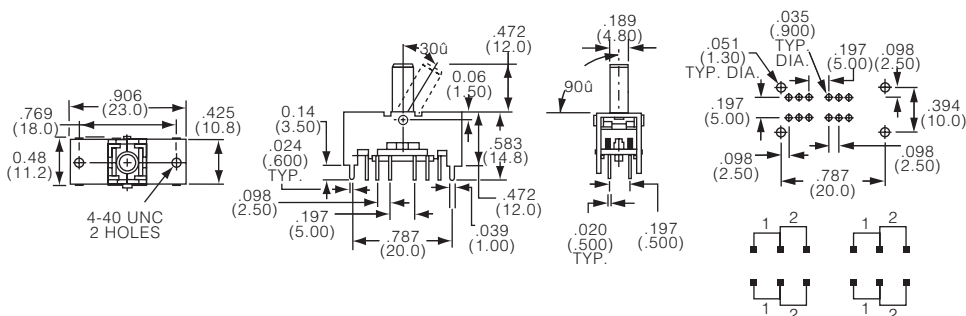
4 poles



double throw



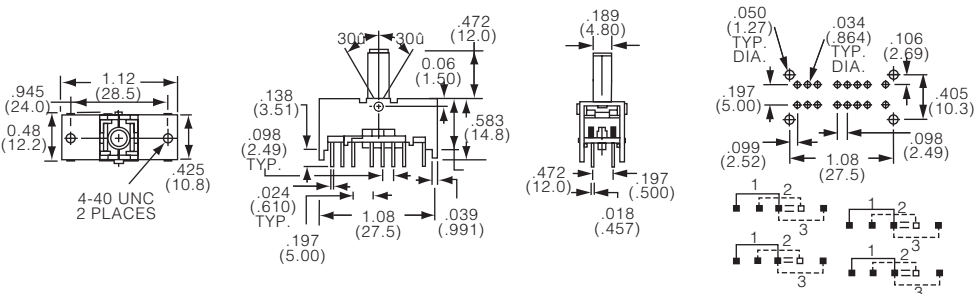
CST042NK



triple throw



CST043NK



CST Series, Baton Toggle, Multiple Pole, THT (Continued)

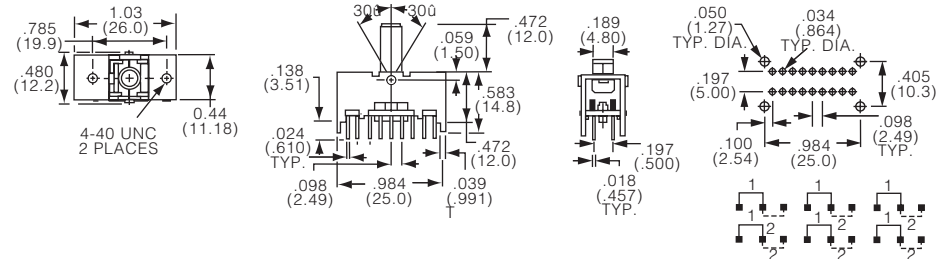
6 poles



double throw



CST062NK



Slide Switches

Product key	No of poles	No of throws	Version	Part Number
CST022NK	2 poles	2 throws	standard	1437576-2
CST023NK	4 poles	3 throws		1437576-4
CST042NK		2 throws		1437576-5
CST043NK		3 throws		1437576-6
CST062NK	6 poles	2 throws		1437576-7

MLL Series, Micro Size, Low Profile, SMT

Features

- Low profile design
- Right angle mounting



Typical performance characteristics

Contact rating	300 milliamps @ 4 VDC
Electrical life	10,000 cycles
Mechanical life	10,000 cycles
Contact resistance, initial	max 70 mOhm
Insulation resistance	min 100 MOhm
Dielectric strength	100 VAC for 1 min
Actuation force	1.75 +/-1.0 N (175 +/-100 gf)
Actuator travel	1.50 mm (.059)

Environmental specification

Operating temperature	-10 to +60°C
Storage temperature	-20 to +85°C
Solder heat resistance	260°C/10s reflow

Material specifications

Contacts	copper alloy silver finish
Actuator	nylon 46
Terminals	copper alloy silver finish
Frame	nickel Silver
Case	lcp
RoHS Directive 2002/95/EC	compliant

Product key

Typical product key

MLL	1	2	00	S
------------	----------	----------	-----------	----------

Type

MLL Slide switch, low profile, right angle, SMT

No of poles

1 single pole

No of throws

2 2 throws **3** 3 throws

Version

00 standard

Terminals

S surface mount SMT

Packaging

blank bulk **TR** tape & reel

MLL Series, Micro Size, Low Profile, SMT (Continued)

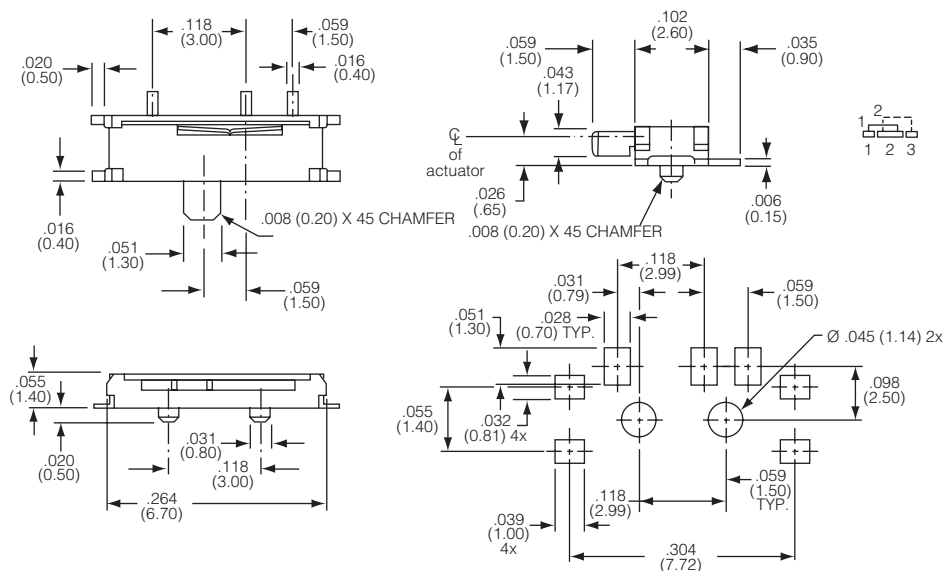
Single pole



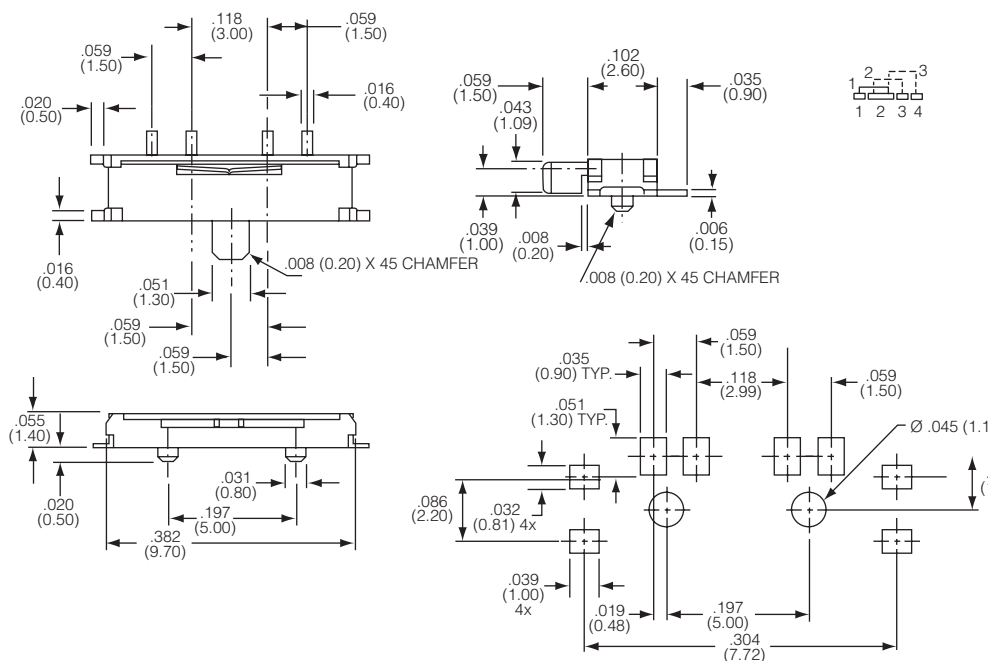
2 throws



MLL1200S



3 throws



Product key	No of poles	No of throws	Terminals	Packaging	Part Number
MLL1200S	single	2 throws	surface mount	bulk	1437575-1
MLL1200STR	pole		SMT	tape & reel	1437575-2
MLL1300S		3 throws		bulk	1437575-3

Preferred parts in bold print

A68 Series, Instrumentation Grade, THT

Features

- Approved construction
- Self-cleaning, gold sliding contact
- Break-before-Make timing



Typical performance characteristics

Contact rating 0,3 A @ 24 V AC/DC
 Electrical life > 500 cycles
 Mechanical life > 1,000 cycles
 Contact resistance max 80 mOhm
 Insulation resistance min. 1,000 MOhm
 Dielectric strength 500 VAC
 Actuator travel 2.0 mm

Environmental specification

Operating temperature -25°C to +85°C
 Storage temperature -25°C to +85°C
 Solder heat resistance 265°C/ 10s wave

Material specifications

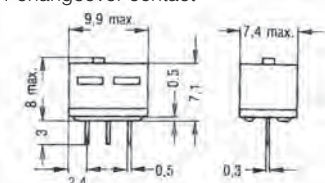
Base psu
 Cover psu
 Contacts copper alloy gold finish
 Terminals copper alloy tin finish
 actuator pa
 RoHS compliance compliant

Actuator

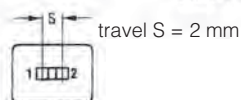
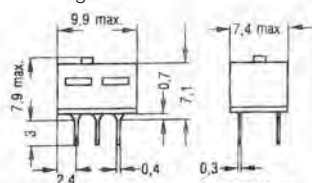
Extended actuator



1 changeover contact



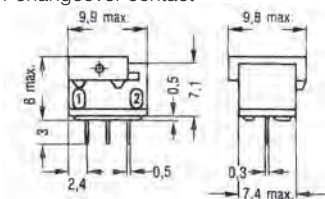
2 changeover contacts



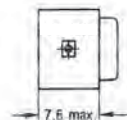
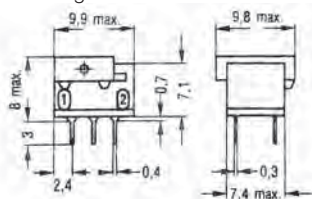
Adapter



1 changeover contact



2 changeover contacts

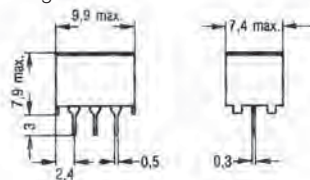


A68 Series, Instrumentation Grade, THT (Continued)

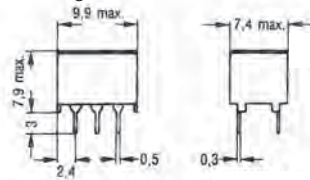
Flush actuator



1 changeover contact



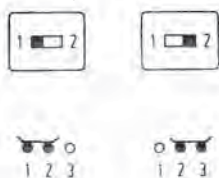
2 changeover contacts



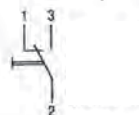
travel S = 2 mm

Function

1 changeover contact
switch position

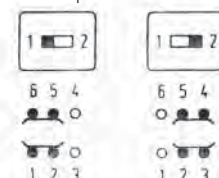


circuit diagram



2 changeover contacts

switch position



circuit diagram



Mounting

1 changeover contact



dimension a = 2.5..2.54 mm

2 changeover contacts



Product key	No of poles	Actuator	Material	Part Number
C42315A68A1	2	extended	RoHS compliant	1393685-1
C42315A68A2		adapter		1393685-2
C42315A68A3	1	extended		1393685-3
C42315A68A4		adapter		1393685-4
C42315A68A31	2	flush		1393685-5
C42315A68A33	1			1393685-7

