PSS1 Series





Features:

- Resistance range 1 k Ω to 1 M Ω
- Temperature range -10°C to +70°C
- Rotational cycles of 15,000 minimum
- Single gang
- Center tap and detent options
- RoHS compliant

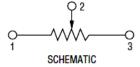


Description:

Slim slide single gang potentiometer. Options include 20mm or 30 mm slide travel; center tap and center detent.

Applications:

- Electric guitars
- Amplifiers
- Mixers
- Drum machines
- Synthesizers



Single Gang

3D Model

To view 3D model:

- 1) Enable 3D content
- 2) Click and drag below



If unable to view 3D content, download and save this PDF to your computer and open it in Adobe Acrobat Reader.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1 kΩ to 1 MΩ
Standard Resistance Tolerance	500 Ω <r<1 20%<="" mω:="" td="" ±=""></r<1>
	R≤500 Ω or R≥1 MΩ: ± 30%
Residual Resistance	Term. 1~2: Less than 30 Ω
	Term: 2~3: Less than 50 Ω
Resistance Taper	B,W
Maximum Operating Voltage	50 Vac/10 Vdc
Rated Power	0.025 W
Dielectric Strength	1 minute at 250 Vac
Sliding Noise	Less than 100 mV
Insulation Resistance	More than 100 MΩ at 250 Vdc
Gang Error (Dual Unit)	N/A

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com/bi-technologies

Rev - 06/2019 Page 1

PSS1 Series



Mechanical Characteristics

T_A = 25°C unless otherwise noted

Slide Travel	20 mm, 30 mm
Operating Force	10 gf ~ 100 gf
Stopper Strength	3.0 kgf (from the base level to a point of 2mm)
Lever Deviation	30 ~ 150 gf
Lever Push-Pull Strength	3.0 kgf minimum at 10 seconds
Lever Wobble	2 (2XL)/20 mm (maximum) (L: level length both sides)
Operational Life	15,000 cycles minimum

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature	-10 °C to + 70 °C
IP Rating	IP 40
Soldering Condition	Wave Soldering 260 °C maximum for 1-3 seconds
Soldering Condition	Hand Soldering 300° C maximum for 3 seconds
RoHS	Please refer to TT Electronics website
REACH	Please refer to TT Electronics website

considered accurate at time of going to print.

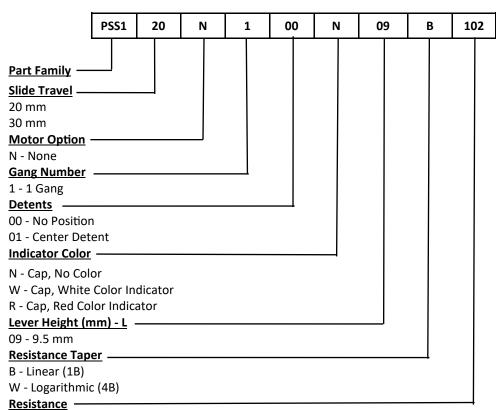
TT Electronics reserves the right to make changes in product specification without

notice or liability. All information is subject to TT Electronics' own data and is

PSS1 Series



Ordering Information



See Resistance Table

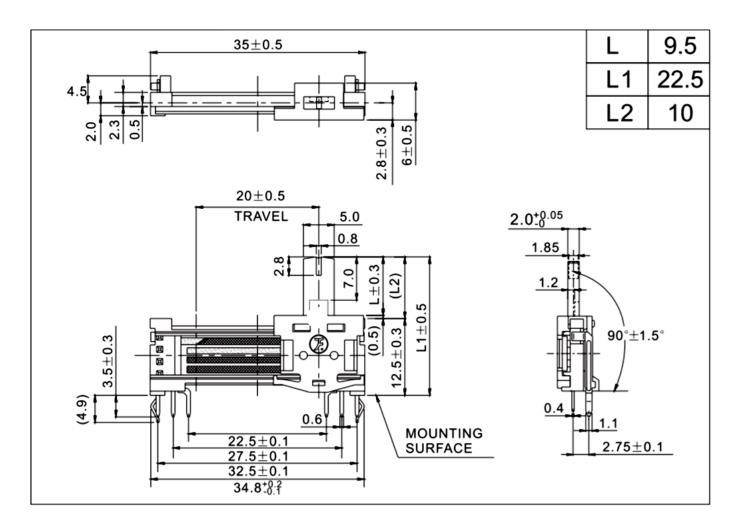
Resistance Table	
Resistance (Ohms)	Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

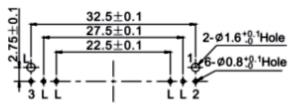
PSS1 Series



Outline Drawings

20 mm Travel

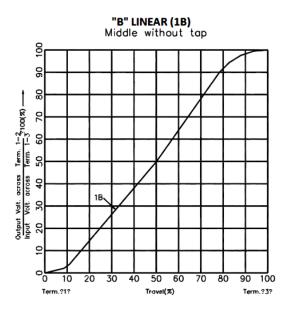


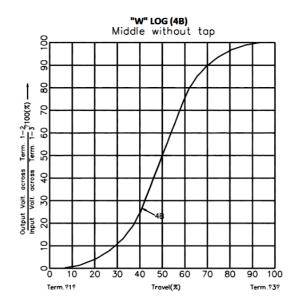


PSS1 Series



Standard Tapers





Packaging

Standard Packaging	Plastic Trays
Hardware	N/A

Slim Slide Potentiometer with 20/30 mm Travel, w/LED

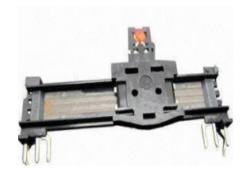




PSS2 Series

Features:

- Dual gang
- Resistance range 1 k Ω to 1 M Ω
- Temperature range -10°C to +70°C
- Rotational cycles of 15,000 minimum
- With or without LED
- Vertical and horizontal mount versions
- RoHS compliant

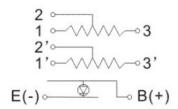


Description:

Slim slide dual gang potentiometer. Options include 20mm or 30 mm slide travel; with or without LED; center tap and center detent.

Applications:

- Electric guitars
- Amplifiers
- Mixers
- Drum machines
- Synthesizers



Schematic

3D Model

To view 3D model:

- 1) Enable 3D content
- 2) Click and drag below



If unable to view 3D content, download and save this PDF to your computer and open it in Adobe Acrobat Reader.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1 k Ω to 1 M Ω
Standard Resistance Tolerance	500 Ω <r<1 0%<="" mω:="" td="" ±2=""></r<1>
	R≤500 Ω or R≥1 MΩ: ± 30%
Residual Resistance	Term. 1~2: Less than 30 Ω
	Term: 2~3: Less than 50 Ω
Resistance Taper	B,W
Maximum Operating Voltage	50 Vac/10 Vdc
Rated Power	0.025 W
Dielectric Strength	1 minute at 250 Vac
Sliding Noise	Less than 100 mV
Insulation Resistance	More than 100 $M\Omega$ at 250 Vdc
Gang Error (Dual Unit)	±2 dB at the 50% travel point

General Note

© TT electronics plo

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com/bi-technologies

Rev - 06/2019 Page 1

PSS2 Series



Mechanical Characteristics

T_A = 25°C unless otherwise noted

_ ^^	
Slide Travel	20 mm, 30 mm
Operating Force	10 gf ~ 100 gf
Stopper Strength	3.0 kgf (from the base level to a point of 2mm)
Lever Deviation	30 ~ 150 gf
Lever Push-Pull Strength	3.0 kgf min. at 10 seconds
Lever Wobble	2 (2XL)/20 mm (maximum)
	(L: level length both sides)
Operational Life	15,000 cycles minimum

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature	-10 °C to +70 °C
Soldering Condition	Wave soldering 260 °C max. for 1-3 seconds
Soldering Condition	Hand soldering 300° C max. for 3 seconds
IP Rating	IP 40
RoHS	Please refer to TT Electronics website
REACH	Please refer to TT Electronics website

considered accurate at time of going to print.

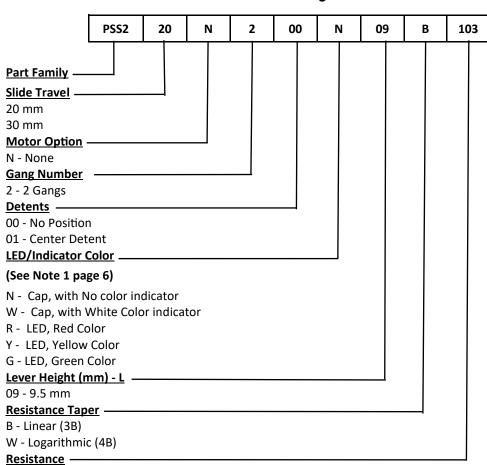
TT Electronics reserves the right to make changes in product specification without

notice or liability. All information is subject to TT Electronics' own data and is

PSS2 Series



Ordering Information



Resistance Table	
Resistance (Ohms)	Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

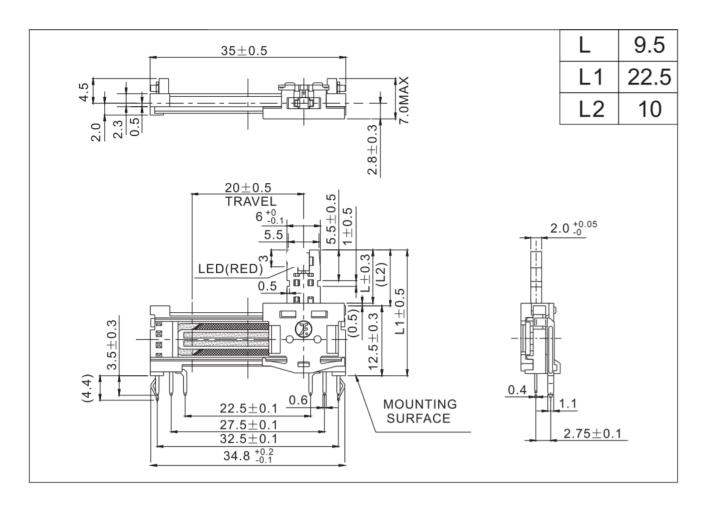
TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com/bi-technologies

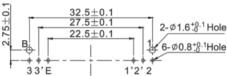
See Resistance Table



Outline Drawings

20 mm Travel, Standard Type, 2 Gangs, with LED



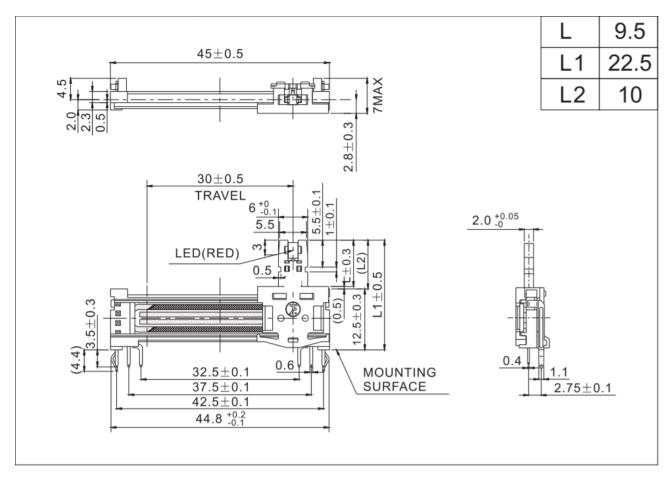


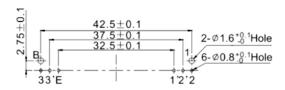
PCB layout Dimension



Outline Drawings

30 mm Travel, Standard Type, 2 Gangs, with LED





PCB layout Dimension

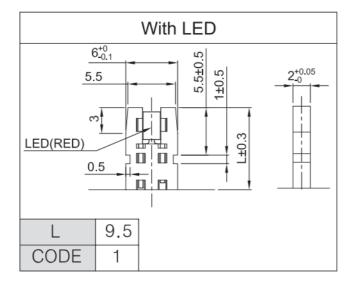
PSS2 Series

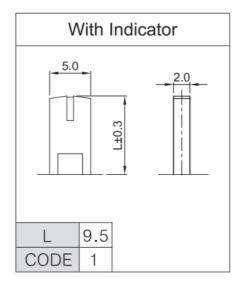


Outline Drawings

Note 1: LED/Indicator Option



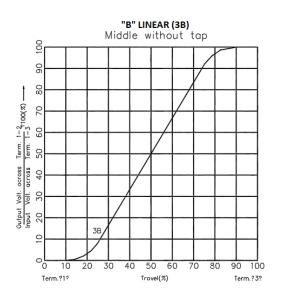


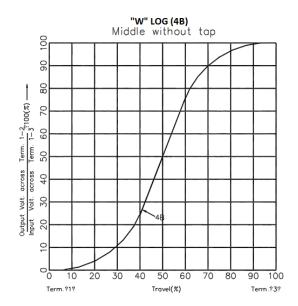


PSS2 Series



Standard Tapers





Packaging

Standard Packaging	Plastic Trays
Hardware	N/A

PSL₂





Features:

- Operation life 300,000 minimum
- Resistance range $1 \text{ k}\Omega$ $1 \text{ M}\Omega$
- Smooth feel with dual rail internal system
- Dual track options available
- Range of taper resistance options

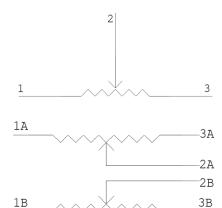


Description:

PS2 family of linear non-motorized potentiometers. This potentiometer is perfect for mixing boards and other audio visual equipment.

Applications:

- Audio mixers
- Video mixers
- Light boards
- Keyboards
- Musical instruments
- Stage equipment



3D Model

To view 3D model:

- 1) Enable 3D content
- 2) Click and drag below



If unable to view 3D content, download and save this PDF to your computer and open it in Adobe Acrobat Reader.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	$1~\text{k}\Omega{-}1~\text{M}\Omega$
Standard Resistance Tolerance	1 kΩ- 1 MΩ ± 20%
	$R < 1 \text{ k}\Omega \text{ or } R > 1 \text{ M}\Omega \pm 30\%$
Resistance Taper	A,B,C
Maximum Operating Voltage	200 Vac / 10 Vdc
Rated Power	0.5 Watt
Dielectric Strength	1 minute at 300 Vac
Slider Noise	≤ 47 mV
Insulation Resistance	≥ 100 MΩ at 250 Vdc
Residual Resistance	R1,2— ≤5 Ω R2,3 — ≤ 5 Ω
Element Count	Single/Dual
Tracking Error	-40 dB—0 dB ≤ ±3 dB

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com/bi-technologies

Rev - 06/2019 Page 1





Fader Characteristics

T_A = 25°C unless otherwise noted

Slide Travel	45mm, 60mm, 100mm
Operating Force	5—120 gf.cm
Stopper Strength	5 Kgf.cm for 5 seconds
Lever Wobble	1.6mm p-p maximum
Operational Life	300,000 cycles minimum
Total Resistance Shift	±15%
Touch Sense Track	NO
Lever Deviation	0.5mm max (one side)

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature Range	-10°C -70°C
IP Rating	N/A
Soldering Condition	260°C for 3 seconds
RoHS	Please refer to TT Electronics website
REACH	Please refer to TT Electronics website





Ordering Info PSL2 100 Ν 2 Т 02 05B 103 **Part Family** Travel (mm) 045/060/100 **Motor Option** N - N/A Track Count -1 - Single Track 2 - Dual Track **Terminal Type** T - PC Pins Lever Height -See Lever Table Resistance Taper -See Resistance Taper Table Resistance Code See Resistance Chart

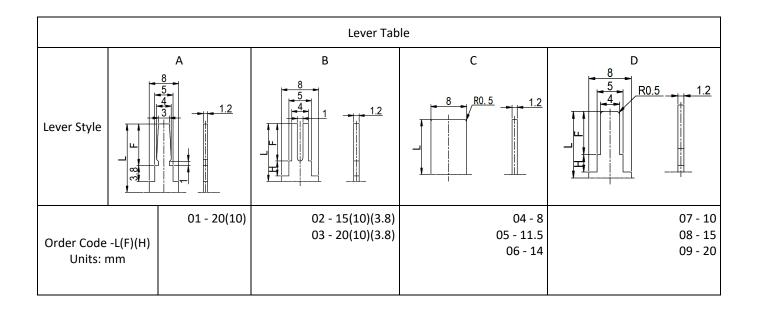
Lever Table		
Order Code	L(F)(H) (mm)	Lever Style
01	20(10)	Α
02 03	15(10)(3.8) 21(9)(3.8)	В
04 05 06	8 11.5 14	С
07 08 09	10 15 20	D

Resistance Taper Table (Code)		
Taper "A"	Taper "B"	Taper "C"
05A	00B	05C
10A	01B	10C
15A	02B	15C
20A	03B	20C
25A	04B	25C
30A	05B	30C

Code	Resistance
102	1K
202	2K
502	5K
103	10K
203	20K
503	50K
104	100K
204	200K
504	500K

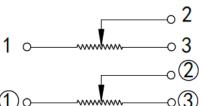


Outline Drawings



PSL2 Series Circuit Diagram

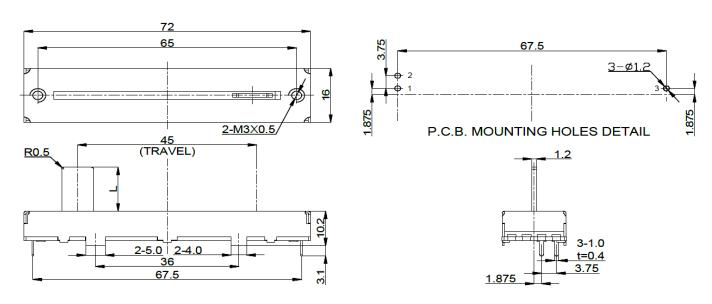
1 Track 2 Track 1 0 3 1 0



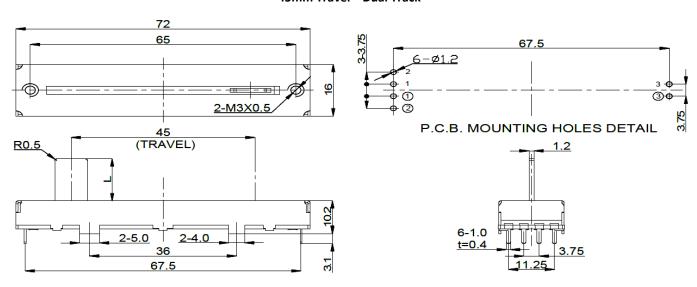




45mm Travel—Single Track



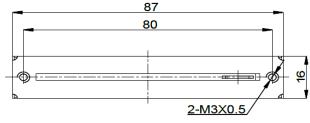
45mm Travel—Dual Track

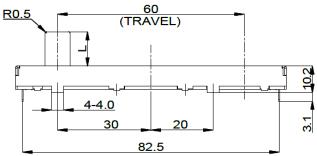


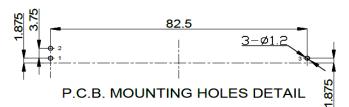


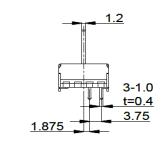


60mm Travel—Single Track

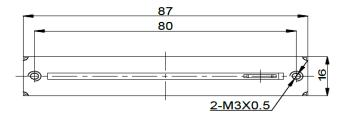


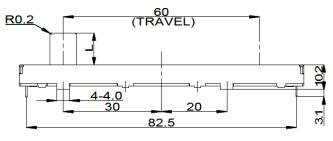


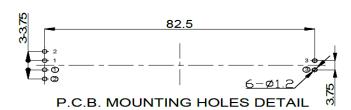


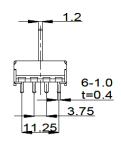


60mm Travel—Dual Track





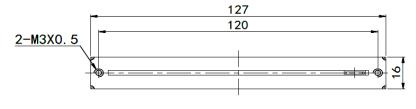


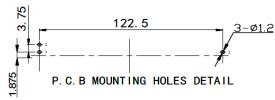


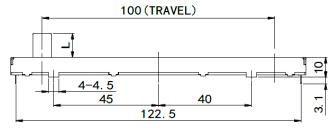


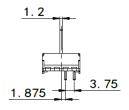


100mm Travel—Single Track

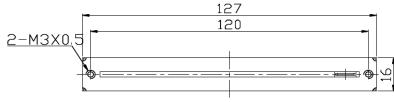


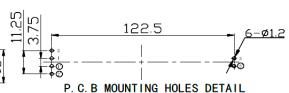


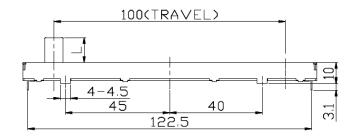


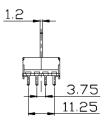


100mm Travel—Dual Track





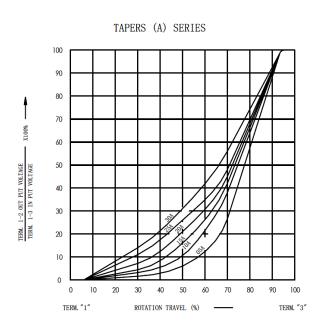


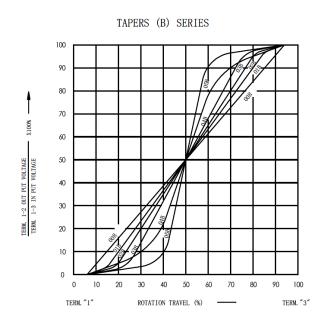


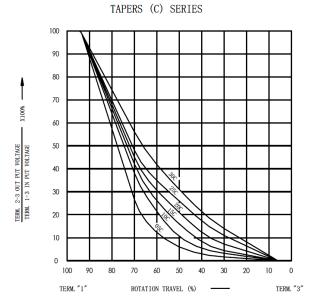
PSL₂



Standard Tapers







Resistance Taper Table (Code)			
Taper "A"	Taper "B"	Taper "C"	
05A	00B	05C	
10A	01B	10C	
15A	02B	15C	
20A	03B	20C	
25A	04B	25C	
30A	05B	30C	

Packaging

Standard Packaging	N/A
Included Hardware	None

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210 Ph: + 1 (714) 447-2345 www.ttelectronics.com/bi-technologies