

DIP Switch

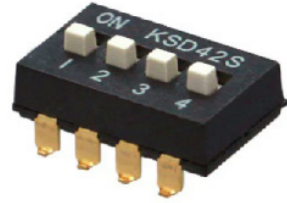
KSD/KSS Series

DIP Slide

Through Hole • SMD

1 ~ 12P (excl. 11P)

SlideType/SMD



Flat Knob SlideType Through Hole Mounting



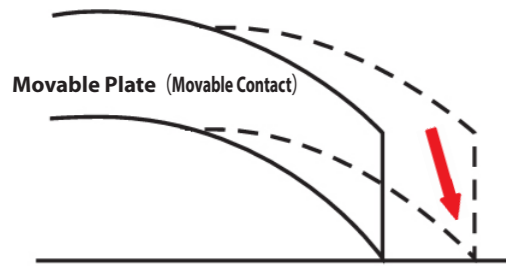
Outline of the Series

This is the flagship DIP switch series from OTAX Corporation, a global leader in DIP switch production.

Features of the Series

1. The knife-edge, high-pressure contact mechanism ensures stable connection even at micro-currents.
2. The high contact pressure prevents malfunctions caused by vibration and shock.
3. The terminal shape and external dimensions are equivalent to those of DIP-type semiconductor packages, allowing for easy automatic mounting.
4. In addition to the standard slide-type actuator, a flat-type knob with no protruding parts is also available.

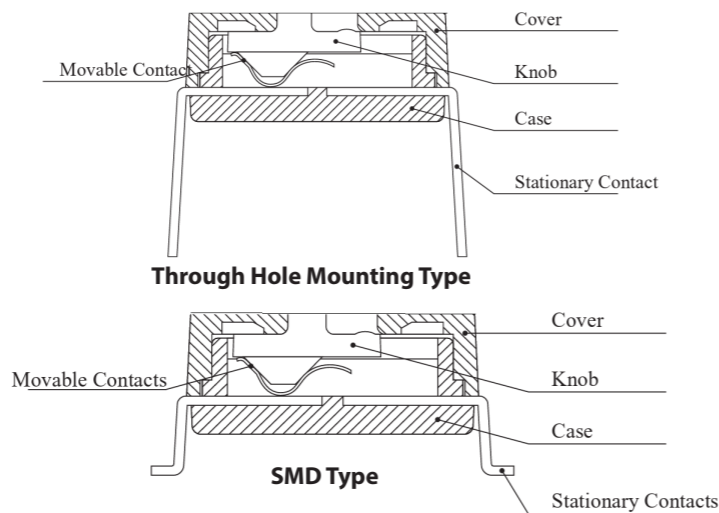
Knife-edge High-pressure Contact



Fixed Plate (Fixed Contact)

The knife-shaped tip of the movable contact penetrates into the fixed contact, providing a contact structure that is highly resistant to surface contamination and foreign particles.

Structure



Common Specifications

Specifications of Materials

Ratings	DC5V 10mA
Contact Resistance	50 mΩ Max. (Initial value)
Withstanding Voltage	AC300V 1 Minute
Insulating Resistance	100MΩMin.
Electrical Life	1,000 times
Operating Temperature Range	-30°C ~ +85°C
Storage Temperature Range	-30°C ~ +85°C
Operating Force	7.9N Max.
Number of Re-flow	2回 Max.

Part Name	Materials	Finish
Knob	Heat-resistant Polyamide	White
Cover	PPS	Black
Case	PPS	Black
Movable Plate (Movable Contact)	Copper Alloy	Gold Plating
Fixed Plate (Fixed Contact)	Copper Alloy	Gold Plating

* For products other than those listed above or for custom items, please

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Product Designations

Series Name	Shape of Operational-part	Poles	Type of Terminals	Package
K	S	8	S	E

Shape of Operational-part	Symbol
Slide	D
Flat Knob Slide	S
Slide (ON-OFF reversed)	DA
Flat Knob Slide (ON-OFF reversed)	SA

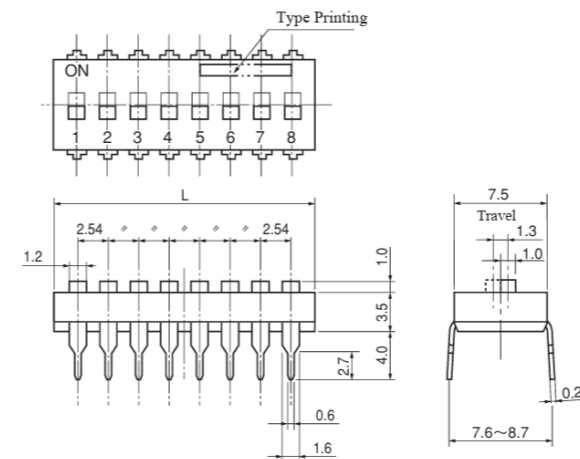
Poles	Symbol
1	12
2	22
3	32
4	42
5	52
6	62
7	72
8	82
9	92
10	102
12	122

Type of Terminals	Symbol
Through Hole Mounting	(none)
SMD	S

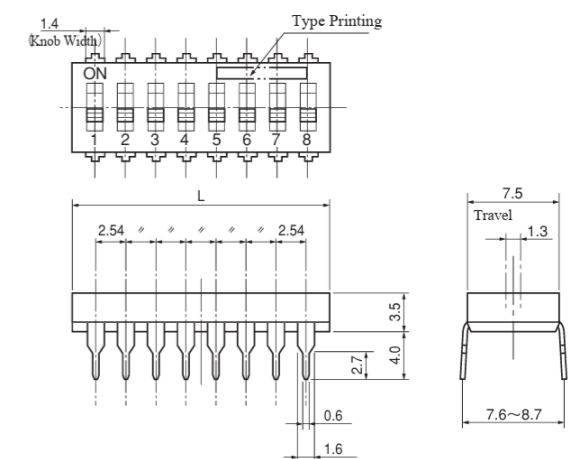
Package	Symbol
Magazine	(none)
Tape-reel (SMD only) (Number of pieces per reel -> cf. P.4)	E
Tape-reel (SMD only) (100 pcs / reel)	E100

Standard Dimensions (Through Hole Mounting Type)

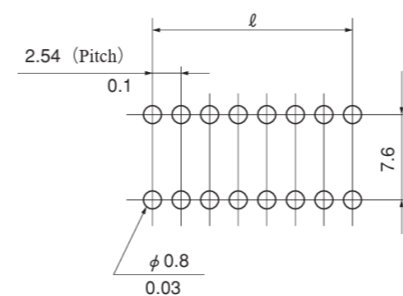
Slide Type KSD □□□



Flat Knob Slide Type KSS □□□



Mounting Hole Dimensions



Product Names and Dimensions

Product Name	Poles	L (mm)	ℓ (mm)
KSD12	1	4.5	—
KSS12	1	4.5	—
KSD22	2	7.0	2.54
KSS22	2	7.0	2.54
KSD32	3	9.6	5.08
KSS32	3	9.6	5.08
KSD42	4	12.1	7.62
KSS42	4	12.1	7.62
KSD52	5	14.6	10.16
KSS52	5	14.6	10.16
KSD62	6	17.2	12.70
KSS62	6	17.2	12.70

Product Name	Poles	L (mm)	ℓ (mm)
KSD72	7	19.7	15.24
KSS72	7	19.7	15.24
KSD82	8	22.3	17.78
KSS82	8	22.3	17.78
KSD92	9	24.8	20.32
KSS92	9	24.8	20.32
KSD102	10	27.3	22.86
KSS102	10	27.3	22.86
KSD122	12	32.5	27.94
KSS122	12	32.5	27.94

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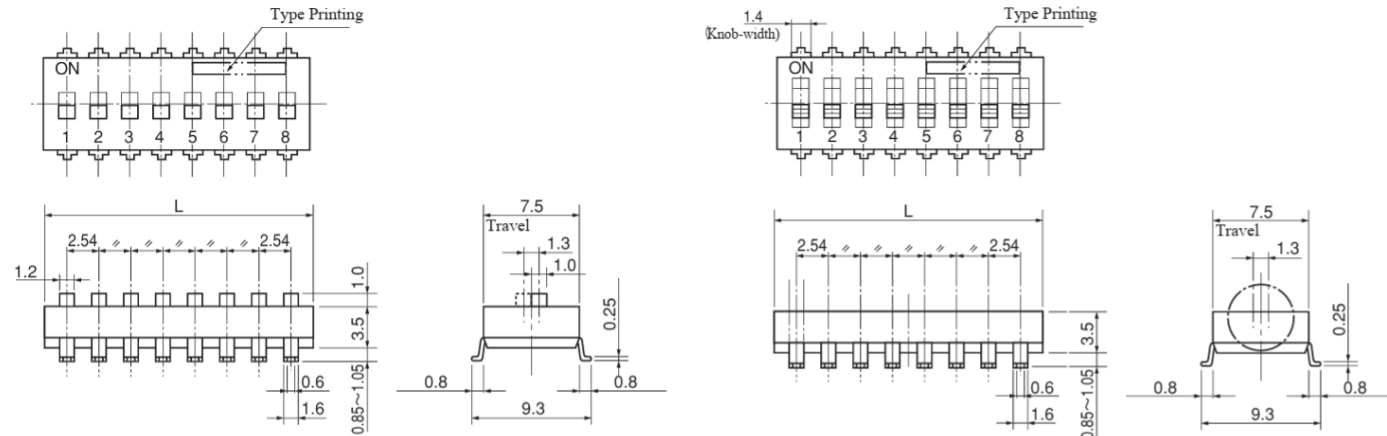
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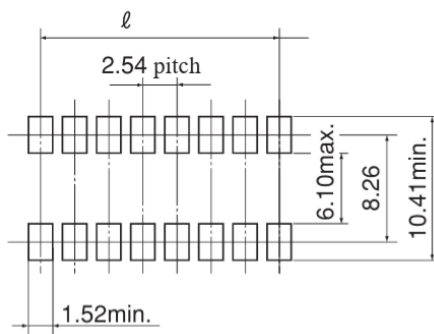
Standard Dimensions (SMD \fType)

Slide Type KSD □□ S □

Flat Knob Slide Type KSS □□ S □



Mounting Land Dimensions



Product Names and Dimensions

Product Name	Poles	L (mm)	ℓ (mm)
KSD12S□	1	4.5	—
KSS12S□	1	4.5	—
KSD22S□	2	7.0	2.54
KSS22S□	2	7.0	2.54
KSD32S□	3	9.6	5.08
KSS32S□	3	9.6	5.08
KSD42S□	4	12.1	7.62
KSS42S□	4	12.1	7.62
KSD52S□	5	14.6	10.16
KSS52S□	5	14.6	10.16
KSD62S□	6	17.2	12.70
KSS62S□	6	17.2	12.70

Soldering Conditions

* Regarding the Soldering Conditions, please refer to [the separate data sheet](#). (Hand Soldering Condition is A.)

Cautions on Handling Products

1. Cleaning agents such as alcohol-based, petroleum-based, ketone-based, and chlorine-based solvents can be used.
2. The conditions for reflow soldering may vary depending on the dimensions of the printed circuit board and the assembly density in the actual production process. Please refer to the temperature profile in the separate datasheet in advance, and confirm the surface temperature and soldering condition of the mounted product before use.

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Packaging Q'ty for Box, Magazine and Reel

Poles	Q'ty per 1 Magazine (pcs)	Through Hole Mounting Type		SMD Type	
		Q'ty of Magazine per 1 Box (pcs)	Total Q'ty per 1 Box (pcs)	Q'ty of Magazines per 1 Box (pcs)	Total Q'ty per 1 Box (pcs)
1	100	40	4,000	60	6,000
2	60	40	2,400	60	3,600
3	45	40	1,800	60	2,700
4	35	40	1,400	58	2,000 (The last magazine contains only 5 pieces.)
5	30	40	1,200	60	1,800
6	25	40	1,000	60	1,500
7	20	40	800	60	1,200
8	20	40	800	60	1,200
9	15	40	600	60	900
10	15	40	600	60	900
12	14	40	550 (The last magazine contains only 4 pieces.)	58	800 (The last magazine contains only 2 pieces.)

Poles	KSD □□ SE	KSS □□ SE
	Total Q'ty per 1 Reel (pcs)	Total Q'ty per 1 Reel (pcs)
1	1,450	1,500
2	700	750
3	700	750
4	700	750
5	700	750
6	700	750
7	700	750
8	700	750
9	700	750
10	700	750
12	700	750

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