

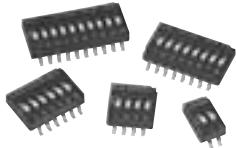
# KHS SERIES

## HALF PITCH DIP SWITCHES

### FEATURES

- These super-miniature (a terminal pitch of 0.05 inch) multi-contact switches are designed for use inside a very space saving and high technical electronic equipment.
- Reliability maintained with a size reduction of 41.9% (compared with our 8 poles standard DIP switches).
- The plastic case is designed for better heat resistance.
- Gold-plated electrical contacts are the standard specification.
- SMT units are compatible with an automatic assembling equipment, reflow (tape sealing) mounting and washable. (Compatible with automatic handling methods; such as a tape and cartridge).

300mil SOP Standard



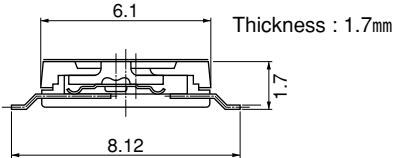
### HOW TO ORDER

<b>K</b>	<b>H</b>	<b>S</b>	<b>8</b>	<b>2</b>	<b>E</b>
Series					
Code	Actuator	Code	Poles	Code	Auto-Insertable
S	Slide	22	2	E	Embossed Taping type
		42	4	C	Cartridge type
		62	6		
		82	8		
		102	10		

### LOW PROFILE TYPE



KHU04



Rating : DC24V, 25mA max.  
Dimension : 6.2×8.1×1.7mm

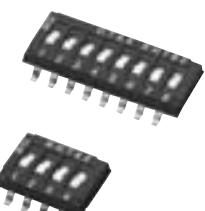
### NEW PRODUCTS

# KHT SERIES

## ULTRA LOW PROFILE HALF-PITCH SLIDE TYPE SMT DIP SWITCHES RoHS Compliance Product

### FEATURES

- Ultra-miniaturization by reducing internal structure: (1.27mm pitch and 1.45mm height).
- Further high density mounting (space saving: approx. 1/2 of our standard KHS82 type).
- Higher heat-resistance by making use of engineering plastic.
- Reliable contact stability by twin gold-plated contact available as standard specifications.
- Auto-mountable, reflow and washable Both tube-packaging and tape & reel packaging are available.



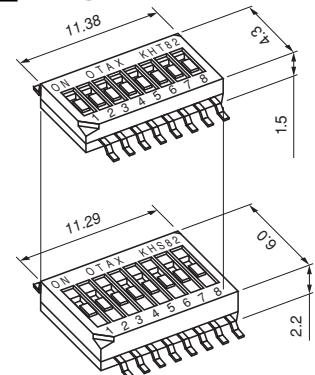
### HOW TO ORDER

<b>K</b>	<b>H</b>	<b>T</b>	<b>8</b>	<b>2</b>	<b>E</b>
Series					
Code	Actuator	Code	Poles	Code	Auto-Insertable
T	Low Profile	22	2	E	Embossed Taping type
		42	4	C	Cartridge type
		62	6		
		82	8		
		102	10		

To be marketed at a later date.

### COMPARISON WITH CONVENTIONAL TYPE

#### ■KHT82



#### ■KHS82

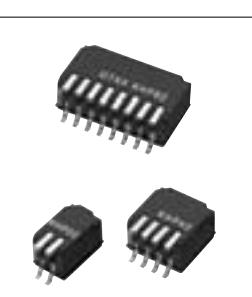
### NEW PRODUCTS

# KHP SERIES

## ULTRA MINIATURE HALF-PITCH PIANO TYPE SMT DIP SWITCHES RoHS Compliance Product

### FEATURES

- Ultra-miniaturization by reducing internal structure: (1.27mm terminal pitch).
- Further high density mounting (space saving: approx. 1/4 of our standard KSP82 type).
- Higher heat-resistance by making use of engineering plastic.
- Reliable contact stability by twin gold-plated contact available as standard specifications.
- Auto-mountable, reflow and washable Both tube-packaging and tape & reel packaging are available.

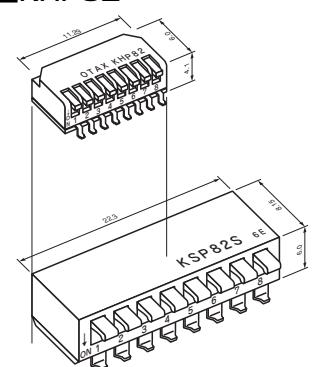


### HOW TO ORDER

<b>K</b>	<b>H</b>	<b>P</b>	<b>8</b>	<b>2</b>
Series				
Code	Actuator	Code	Poles	
P	Piano	22	2	
		42	4	
		62	6	
		82	8	
		102	10	

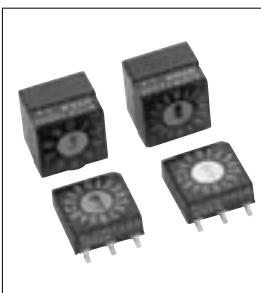
### COMPARISON WITH CONVENTIONAL TYPE

#### ■KHP82



#### ■KSP82

# KU SERIES

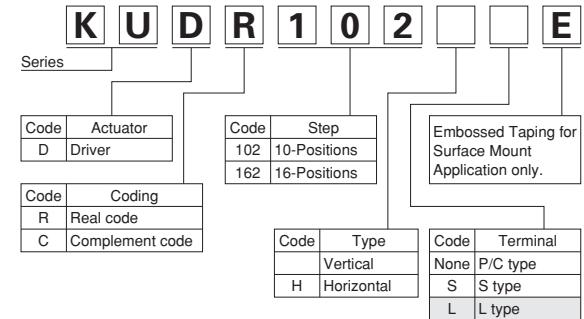


## LOW PROFILE ROTARY DIP SWITCHES

### FEATURES

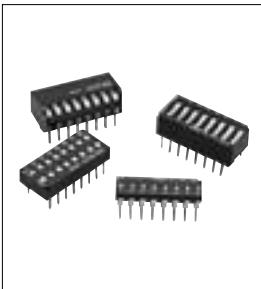
- Low profile of 7mm square and 3mm high provides to increase a capacity of surface mounting P.C.B.
- Beryllium copper of spring using and high grade stainless steel are used, and gained a fine click touch of stepping.
- Terminal pitch is 0.1 inch as same as series K.
- By employing an engineering plastic, heat resisting is much improved.
- Horizontal(H) type is newly available(7mm square and 6mm high).
- SMT units are compatible with an automatic assembling equipment, reflow mounting and washable. (Compatible with automatic handling methods; such as a tape and cartridge).

### HOW TO ORDER



To be marketed at a later date.

# KY SERIES

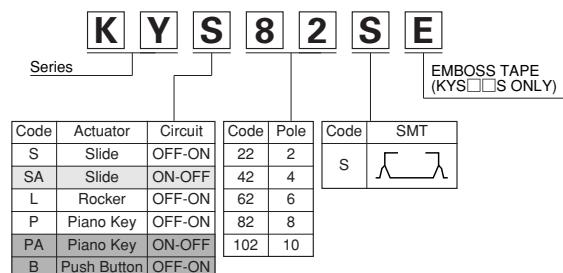


## "END TO END STACKABLE" LOW PROFILE DIP SWITCHES

### FEATURES

- KY Series DIP SWITCHES are mountable on P/C boards in a standard 0.1 inch pitch and allows them to be ganged end-to-end KYS type only.
- By employing an engineering plastic, the KY Series has an excellent heat and chemical resistance.
- KYS type is a very low profile switch and is not more than 2.6mm high above a P/C board (minus 1.6mm high compared with our previous models).
- Standard GOLD plated contact points for reliability and long service life.
- Compatible for automatic cleaning. High pressure wiping contacts allows aqueous or solvent cleaning.

### HOW TO ORDER

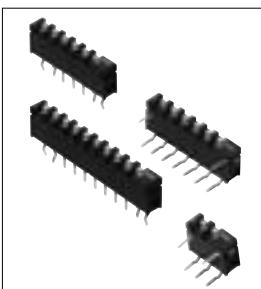


\*KYP is not available with SMT terminals.

To be marketed at a later date.

Made to order basis.

# NEW PRODUCTS SX SERIES

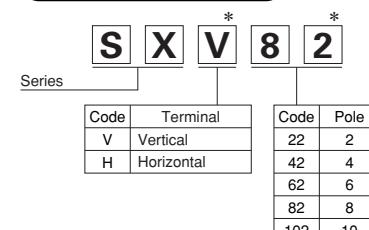


## AUTO-CLEANING TYPE SIP SWITCHES

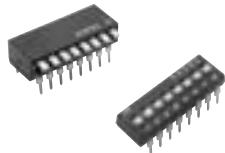
### FEATURES

- High-density design is achieved by employing SIP configuration.
- The most stable and reliable contact because of an extremely high pressure contact mechanism(200kg/mm<sup>2</sup>).
- Washable without tape sealing SIP switches on the P/C board.
- Gas tight contacts(280,000 psi)

### HOW TO ORDER



**K  
SERIES**



## DUAL IN-LINE PACKAGE SWITCHES

### FEATURES

- The heat resistance was greatly improved by employing ceramic substrates.
- The exclusive knife-edge contact method always ensures stable contact regardless of solder flux or any other environmental hazards.
- Contact pressure is as big as 200kg/mm<sup>2</sup> and immune to accidental operation by shock or vibration.
- Identical to ICs in terminal dimensions and configurations, making switches automatically mountable onto PC boards by the use of parts insertion machine for assembly work efficiency.
- High pressure "knife-edge" contact is capable enough to break possibly formed film by oxidization or sulfurization, ensuring long life expectancy.
- The cleaning solution can be used for a longer and is not necessary to change as often as for the conventional ones.

### HOW TO ORDER

<b>K</b>	<b>S</b>	<b>D</b>	<b>A</b>	<b>8</b>	<b>2</b>	<b>S</b>
Series						
Code	Actuator					
D	Slide					
S	Flat Knob Slide					
P	Piano Key ON down					
PA	Piano Key ON up					
Code	Slide & Flat Knob Slide	Piano ON down	Piano ON up	Code	Code	Terminal
Poles	Code			Code		
1	12			—		
2	22			22		
3	32			32		
4	42			42		
5	52			52		
6	62			62		
7	72			72		
8	82			82		
9	92			92		
10	102			102		
12	122			—		
Blank	ON down					
A	ON up					

Legend:   Made to order basis.

**K  
SERIES**

## ROTARY DIGITAL CODED DIP SWITCHES

### FEATURES

- Exclusive knife-edge high contact pressure(100kg/mm<sup>2</sup>) ensures stable contact, giving immunity to accidental operation by shock or vibration.
- High pressure 'edge' or 'point' contact is capable enough to break possibly formed film by oxidization or sulfurization, ensuring long life expectancy of 20,000 cycles or more.
- Moulded-in terminals and fully sealed construction offer flux-free flow-soldering and automatic cleaning capabilities.
- Low profile and ruggedly constructed.
- 2.54mm terminal spacing allows direct PCB mounting and also fits into standard IC sockets.
- Miniaturized size allows high density mounting.

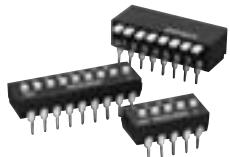


### HOW TO ORDER

<b>K</b>	<b>D</b>	<b>R</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>S</b>	<b> </b>	<b> </b>	<b>H</b>	<b>S</b>
Series										
Code	Actuator									
S	Shaft									
D	Driver									
W	Wheel									
M	Mini Shaft									
E	Shaft Panel Seal									
Code	Step									
102	10-Positions									
162	16-Positions									
Code	Terminal									
None	P/C type									
S	S type									
Code	Rotor colour									
R10	Red									
C10	Orange									
R16	Black									
C16	White									
Code	Coding									
R	Real code									
C	Complement code									
Number of Stopper Position (In case of special order)										
Supporter (Shaft type only)										
Code										
Type										
None										
Vertical										
H										
Horizontal										

► Special length shaft and D-cut shaft are available on a custom basis.

# W SERIES

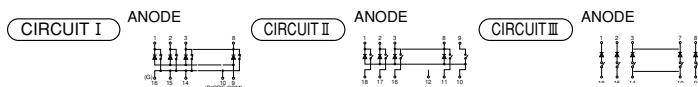
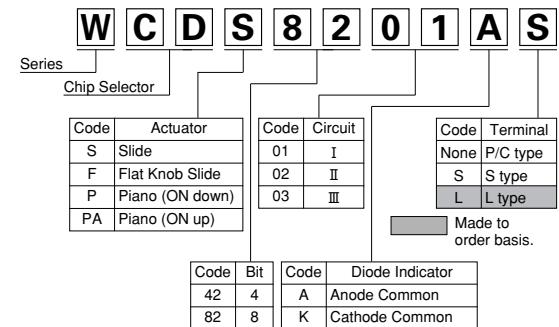


## DIP-DIODE SWITCHES (HYBRID)

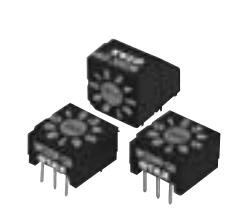
### FEATURES

- Tremendous production cost saving because of diode network incorporated inside the housing, which greatly contributes to VA/VE.
- Tremendous time and cost saving in component part procurement and inventory control.
- Space saving because of the same size as IC.
- Auto-insertion, Auto-soldering and Auto-cleaning.
- Environmentally sealed.
- Most stable and reliable contact because of extremely high contact pressure mechanism(200kg/mm<sup>2</sup>).

### HOW TO ORDER



# W SERIES

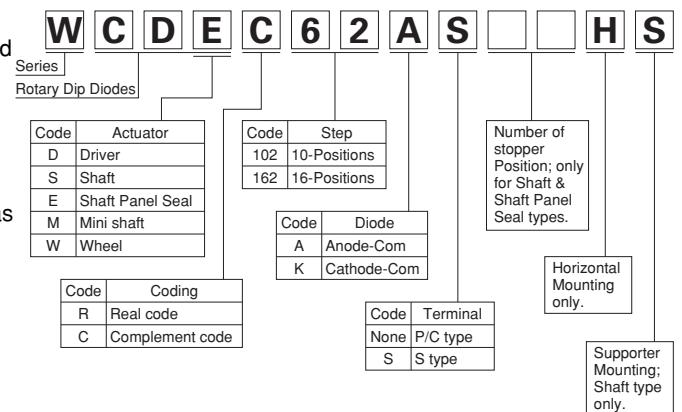


## ROTARY DIP-DIODE SWITCHES (HYBRID)

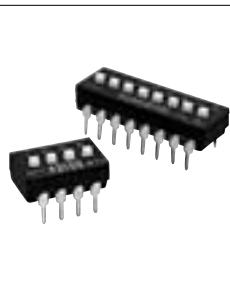
### FEATURES

- Tremendous production cost saving because of the diode network incorporated inside the housing, which greatly contributes to VA/VE.
- Tremendous time and cost saving in component part procurement and inventory control.
- Space saving because of the same size as standard Rotary Dip Switches w/o diode.
- Auto-soldering and Auto-cleaning.
- Environmentally sealed.
- Most stable and reliable contact because of extremely high contact pressure mechanism(100kg/mm<sup>2</sup>).

### HOW TO ORDER



# W SERIES

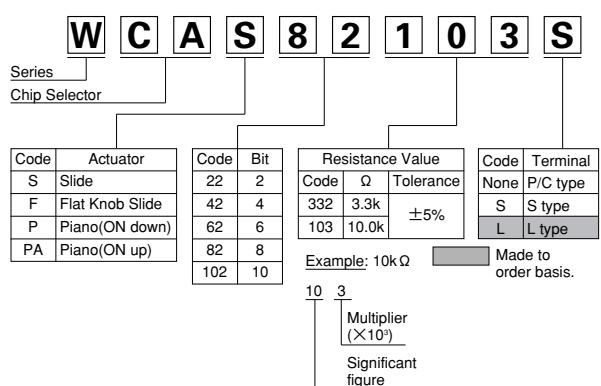


## DIP-RESISTOR SWITCHES (HYBRID)

### FEATURES

- Tremendous production cost saving because of resistor network incorporated inside the housing, which greatly contributes to VA/VE.
- Tremendous time and cost saving in component part procurement and inventory control.
- Space saving because of the same size as IC.
- Auto-insertion, Auto-soldering and Auto-cleaning.
- Environmentally sealed.
- Most stable and reliable contact because of extremely high contact pressure mechanism(200kg/mm<sup>2</sup>).

### HOW TO ORDER

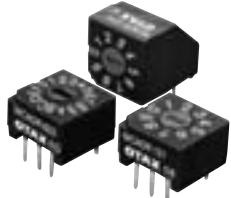


# W SERIES

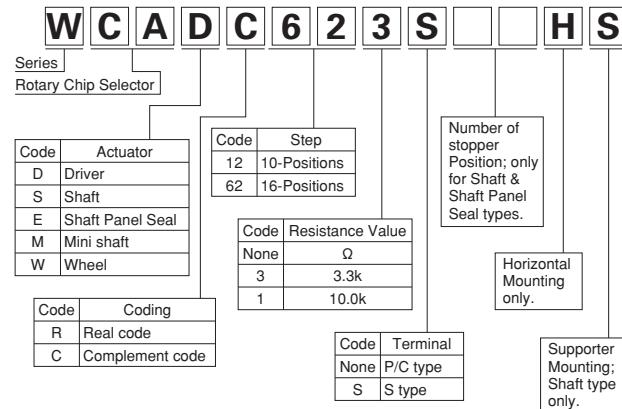
## ROTARY DIP-RESISTOR SWITCHES (HYBRID)

### FEATURES

- Tremendous production cost saving because of resistor network incorporated inside the housing, which greatly contributes to VA/VE.
- Tremendous time and cost saving in component part procurement and inventory control.
- Space saving because of the same size as standard Rotary-Dip-Switches w/o resistor.
- Environmentally sealed.
- Most stable and reliable contact because of extremely high contact pressure mechanism(100kg/mm<sup>2</sup>).



### HOW TO ORDER



# W SERIES

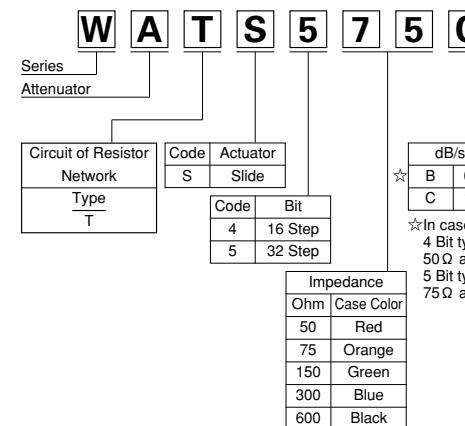
## DIGITAL ATTENUATOR DIP SWITCHES (HYBRID)

### FEATURES

- Tremendous production cost saving because of resistor network incorporated inside the housing, which greatly contributes to VA/VE.
- Tremendous time and cost saving in component part procurement and inventory control.
- Space saving because of the same size as IC.
- Auto-insertion, Auto-soldering and Auto-cleaning.
- Environmentally sealed.
- Most stable and reliable contact because of extremely high contact pressure mechanism(200kg/mm<sup>2</sup>).



### HOW TO ORDER



# KR SERIES

## SPLASHPROOF ROTARY DIP DIGITAL CODE SWITCHES

### FEATURES

- Series KR Splashproof rotary switches are the smallest panel mounted code switches available.
- Rigid and stable with a Zinc die-casting body.
- Gold plated contacts with a high pressure knife edge contact provide excellent reliability.
- Life expectancy, 100,000 steps minimum.
- Completely sealed with inserted-in terminals.



### HOW TO ORDER

