

DIP & ROTARY SWITCH

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DAH-1xx-L01Z	12	DPA-1xx-LAT0Z	22	DPS-1xx-BZ	18	DRD-5xx-RSZ	5
DAH-1xx-LT01Z	12	DPA-1xx-LAT1Z	22	DPS-2xx-ATZ	18	DSD-1xx-EZ	14
DAH-1xx-LTZ	12	DPG-1xx-ATZ	18	DPS-2xx-AZ	18	DSD-1xx-LCZ	14
DAH-1xx-LZ	12	DPG-1xx-AZ	18	DPS-2xx-BTZ	18	DSD-1xx-LDZ	14
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DAM-1xx-EZ	13	DPG-1xx-BZ	18	DPS-3xx-ATZ	18	DSD-1xx-LZ	14
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DDG-2xx-STZ	10	DPG-4xx-AZ	19	DPS-5xx-BTZ	19	DSP-42-L02Z	17
DDG-2xx-SZ	10	DPG-4xx-BTZ	19	DPS-5xx-BZ	19	DSP-42-LC02Z	17
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DDG-5xx-LZ	11	DPG-6xx-BZ	19	DRD-1xx-RFZ	8	DTA-1xx-ETZ	16
DDG-5xx-SRAZ	11	DPH-1xx-EAZ	20	DRD-1xx-RMZ	3	DTA-1xx-EZ	16
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DDG-6xx-STZ	10	DPI-1xx-EA10Z	21	DRD-2xx-CFZ	8	DTD-1xx-ETZ	16
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DDG-Nxx-SRAZ	11	DPI-1xx-LA10Z	21	DRD-2xx-CSZ	4	DTS-1xx-ETZ	16
DDG-Nxx-STZ	11	DPI-1xx-LB10Z	21	DRD-2xx-RFZ	8	DTS-1xx-EZ	16
DDG-Nxx-SZ	11	DPM-1xx-EA10Z	23	DRD-2xx-RRZ	6	DTS-1xx-LTZ	16
DDS-2xx-STZ	10	DPM-1xx-EA11Z	23	DRD-2xx-RSZ	4	DTS-1xx-LZ	16
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DDS-3xx-STZ	10	DPM-1xx-EB11Z	23	DRD-4xx-CMZ	3		
DDS-3xx-SZ	10	DPM-1xx-LA10Z	23	DRD-4xx-CRZ	7		
DDS-6xx-STZ	10	DPM-1xx-LA11Z	23	DRD-4xx-CSZ	5		
DDS-6xx-SZ	10	DPM-1xx-LAT0Z	23	DRD-4xx-RFZ	9		
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DHS-1xx-LDZ	15	DPM-1xx-LB10Z	23	DRD-4xx-RRZ	7		
DHS-1xx-LTZ	15	DPM-1xx-LB11Z	23	DRD-4xx-RSZ	5		
DHS-1xx-LZ	15	DPM-1xx-LBT0Z	23	DRD-5xx-CFZ	9		
DPA-1xx-EA00Z	22	DPM-1xx-LBT1Z	23	DRD-5xx-CRZ	7		
DPA-1xx-EA10Z	22	DPS-1xx-ATZ	18	DRD-5xx-CSZ	5		



Changeover Slide Switch





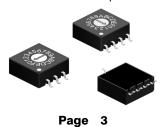


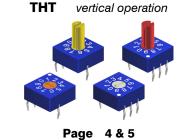


SMT & THT Page 2

Rotary Switch

SMT vertical operation





THT horizontal operation Page 6 to 9

Slide Switch

DIP Package "THT"















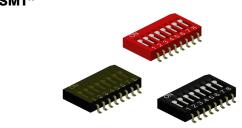
DDG / DDS Series Page 10 & 11

DAH / DAM Series Page 12 & 13

DIP Package "SMT"

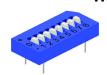




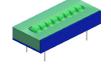




TRI-State "THT" & "SMT"









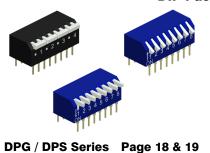


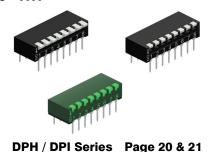
DTD / DTA / DTS Series Page 16

DSP Series Page 17

Piano Switch

DIP Package "THT"



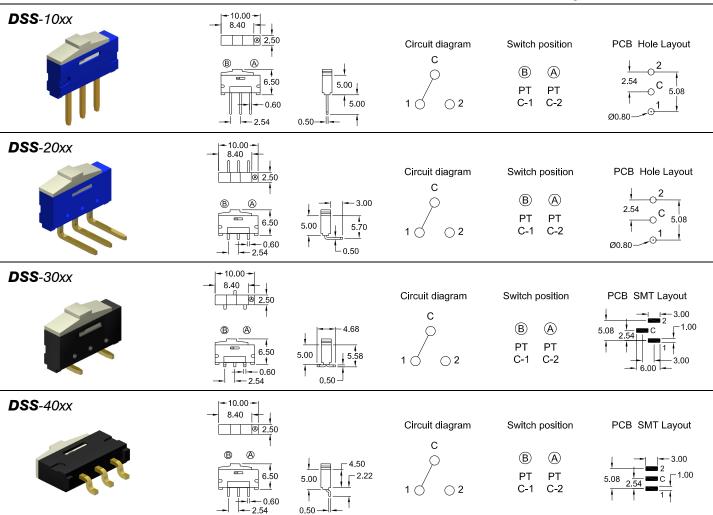




DSS Series

CHANGEOVER SLIDE SWITCH "THT" & "SMT" TYPE





Electrical data

Contact Rating

-switching

-minimum

Contact Resistance

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

0.2A, 24V DC / 0.5A, 12V DC 1 mA at 10mV

 $50 \text{ m}\Omega$ max. 100 m Ω max.

10000 $\mbox{M}\Omega$ min. at 500V DC

500 V AC for 1 Minute

1.5 pF max.

Mechanical and Environmental data

Operating Temperature Storage Temperature

Soldering Temperature

-SMT reflow soldering

-THT wave soldering

Operating force

Mechanical Life

Vibration

- 25°C to +70°C

- 40°C to +85°C

250°C +0/-5°C for 10 sec. max.

250°C +0/-5°C for 10 sec. max.

800 gf max.

5000 operations

10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

SPECIFICATIONS

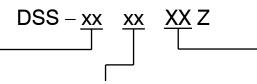
- Suitable for signal switching and communication equipments
- All plastics used are UL 94V-0 grade fire retardant
- Gold plated contacts to ensure low contact resistance

Tropical Version (black color) also for THT straight and right angle type available





How to order



Type

10 = Straight THT

20 Right angle THT

Tropical version only:

30 Vertical SMT

40 Horizontal SMT

Execution

10 = Standard version (blue) Material: PA 66

Material: PA 6T

20 = Tropical version (black)

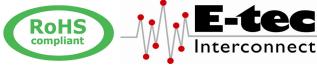
Packing option

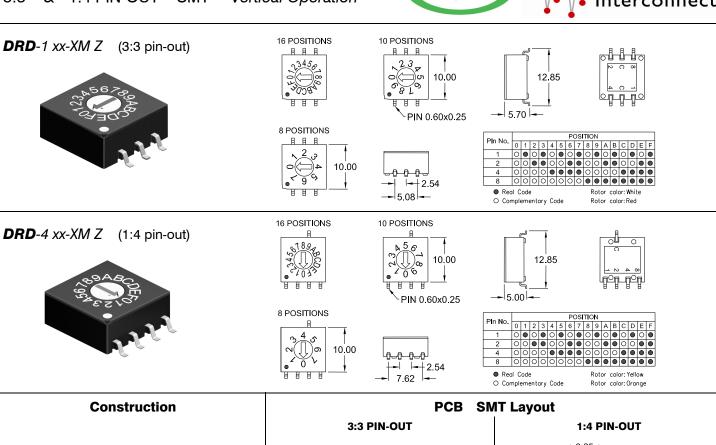
blank Tube packing

KD Reel packing for DSP-40xx series only

DRD Series 10x10 Size sealed ROTARY TYPE

3:3 & 1:4 PIN-OUT "SMT" Vertical Operation





Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

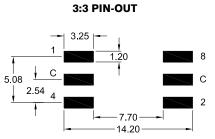
Insulation Resistance Withstanding Voltage 25 mA, 24 V DC 100 mA, 50 V DC

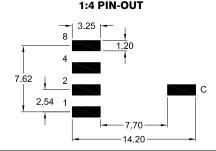
50 m Ω max.

100 m Ω max.

1000 $\text{M}\Omega$ min. at 100 V DC

250 V AC for 1 Minute





SPECIFICATIONS

Mechanical and Environmental data

Operating Temperature Storage Temperature

Soldering Temperature

-SMT reflow soldering

Operating Force Mechanical Life

Vibration

- 25°C to +70°C - 40°C to +85°C

250°C +0/-5°C for 10 sec. 500 gf-cm max. (torque) 2000 steps per position

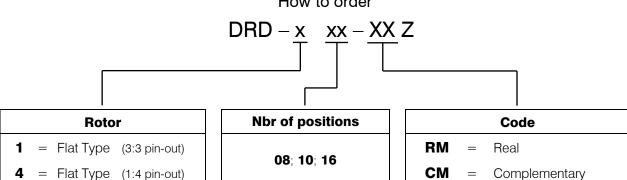
10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

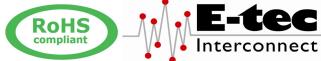
- Molded-in terminals and fully sealed construction
- Standard 2.54mm pin to pin
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

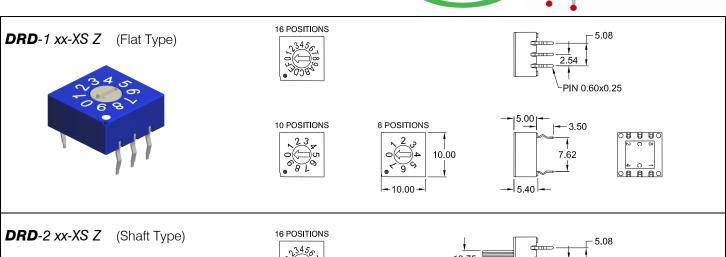
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance.
 Terminals Tin plated.





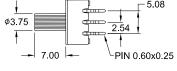
DRD Series 10x10 Size sealed ROTARY TYPE 3:3 PIN-OUT "THT" Vertical Operation



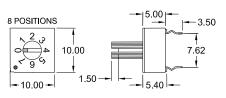






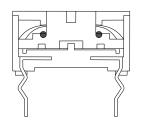


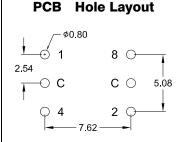






Construction





						C	oa	е								
Die No							Р	SC	TIC	N						
Pin No.	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
1	0		0		0		0		0		0		0		0	
2	0	0			0	0			0	0			0	0		
4	0	0	0	0					0	0	0	0			•	
8	0	0	0	0	0	0	0	0								
 Real Code Complementary Code Rotor color: White Rotor color: Red 																

Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance Withstanding Voltage 25 mA. 24 V DC 100 mA, 50 V DC

50 m Ω max. 100 m Ω max.

1000 $M\Omega$ min. at 100 V DC

250 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

Operating Temperature Storage Temperature

Operating Force

Mechanical Life Vibration

- 25°C to +70°C -40°C to +85°C

500 gf-cm max. (torque) 2000 steps per position

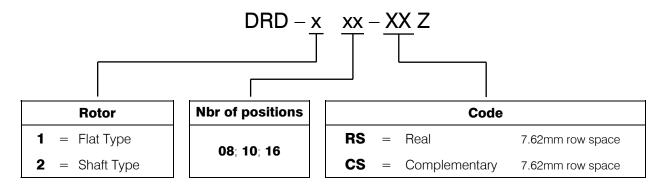
10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

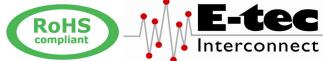
- Molded-in terminals and fully sealed construction
- Standard 2.54mm pin to pin, and 7.62mm DIP space
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

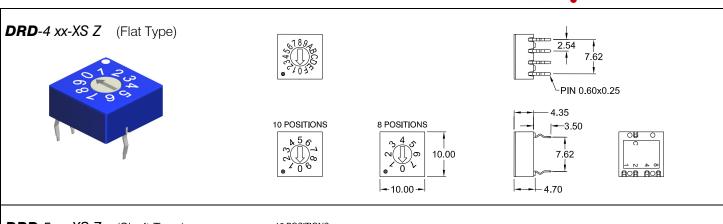
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance. Terminals Tin plated.

How to order



DRD Series 10x10 Size sealed ROTARY TYPE 1:4 PIN-OUT "THT" Vertical Operation

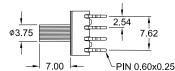


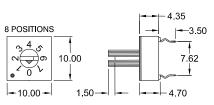








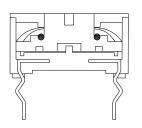


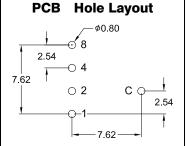




Rotor color: Orange

Construction





Code POSITION Pin No. 0 1 2 3 4 5 6 7 8 9 A B C D E F 2 000000000 8 Rotor color: Yellow

SPECIFICATIONS

Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance Withstanding Voltage 25 mA, 24 V DC 100 mA, 50 V DC

50 m Ω max. $100 \text{ m}\Omega$ max.

1000 M Ω min. at 100 V DC

250 V AC for 1 Minute

Mechanical and Environmental data

O Complementary Code

Operating Temperature Storage Temperature Operating Force

Mechanical Life

Vibration

- 25°C to +70°C - 40°C to +85°C

500 gf-cm max. (torque) 2000 steps per position

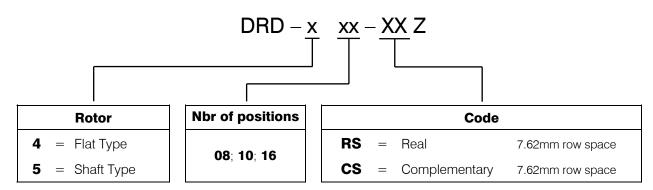
10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Molded-in terminals and fully sealed construction
- Standard 2.54mm pin to pin, and 7.62mm DIP space
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

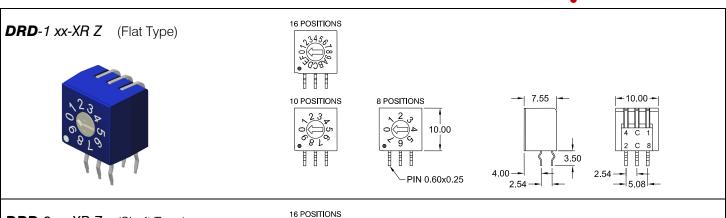
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance. Terminals Tin plated.

How to order

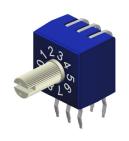


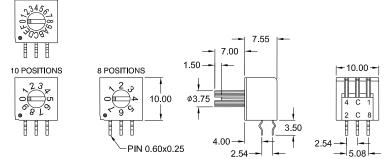
DRD Series 10x10 Size sealed ROTARY TYPE 3:3 PIN-OUT "THT" Vertical Operation



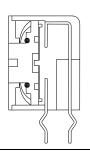


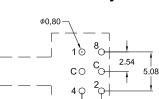
DRD-2 xx-XR Z (Shaft Type)

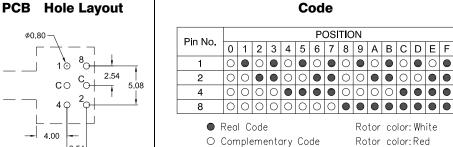




Construction







Electrical data

Contact Rating -switching -non-switching Contact Resistance -initial

25 mA, 24 V DC 100 mA, 50 V DC 50 m Ω max.

-after life test Insulation Resistance Withstanding Voltage 100 m Ω max. 1000 M Ω min. at 100 V DC 250 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

Operating Temperature Storage Temperature Operating Force Mechanical Life Vibration

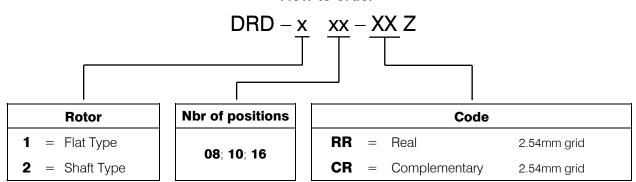
- 25°C to +70°C - 40°C to +85°C 500 gf-cm max. (torque) 2000 steps per position 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Molded-in terminals and fully sealed construction
- Standard 2.54mm grid dimension
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

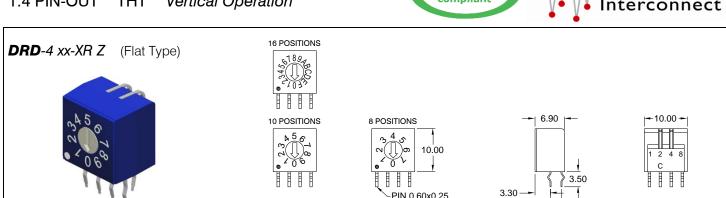
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance. Terminals Tin plated.



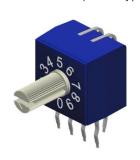


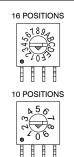
DRD Series 10x10 Size sealed ROTARY TYPE 1:4 PIN-OUT "THT" Vertical Operation

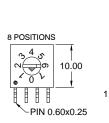


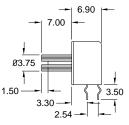


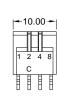
DRD-5 xx-XR Z (Shaft Type)



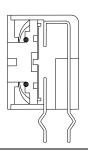


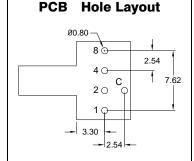






Construction





POSITION Pin No. 0 1 2 3 4 5 6 7 8 9 A B C D E F 0000 2 4 8 Real Code

Code

O Complementary Code

Rotor color: Yellow Rotor color: Orange

Electrical data

Contact Rating -switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance Withstanding Voltage 25 mA, 24 V DC 100 mA, 50 V DC

50 mQ max 100 m Ω max.

1000 M Ω min. at 100 V DC

250 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

Operating Temperature Storage Temperature Operating Force

Mechanical Life

Vibration

- 25°C to +70°C -40°C to +85°C

500 gf-cm max. (torque) 2000 steps per position

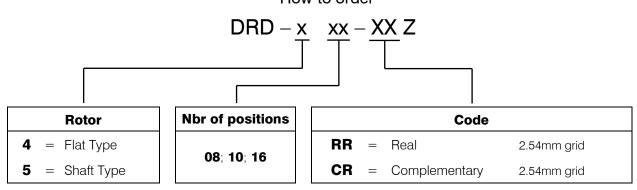
10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Molded-in terminals and fully sealed construction
- Standard 2.54mm grid dimension
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

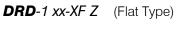
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance. Terminals Tin plated.

How to order

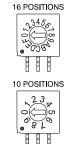


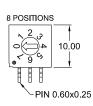
DRD Series 10x10 Size sealed ROTARY TYPE 3:3 PIN-OUT "THT" Vertical Operation

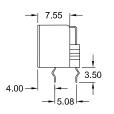


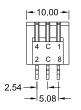






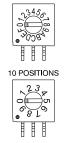




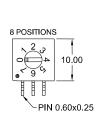


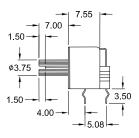
DRD-2 xx-XF Z (Shaft Type)

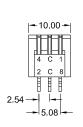




16 POSITIONS

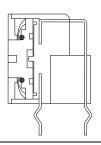


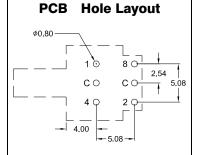




Rotor color: Red

Construction





Code POSITION Pin No. 0 1 2 3 4 5 6 7 8 9 A B C D E F 2 4 8 • Real Code Rotor color: White

Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance Withstanding Voltage 25 mA. 24 V DC 100 mA, 50 V DC

50 m Ω max. 100 m Ω max.

1000 M Ω min. at 100 V DC 250 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

O Complementary Code

Operating Temperature Storage Temperature Operating Force Mechanical Life

Vibration

- $25^{\circ}C$ to $+70^{\circ}C$ - 40°C to +85°C 500 gf-cm max. (torque)

2000 steps per position

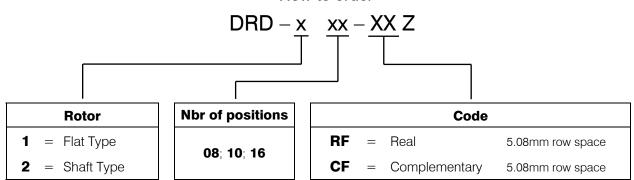
10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

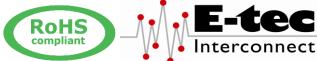
- Molded-in terminals and fully sealed construction
- Standard 2.54mm pin to pin, and 5.08mm DIP space
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
 - Gold plated contacts to ensure low contact resistance. Terminals Tin plated.

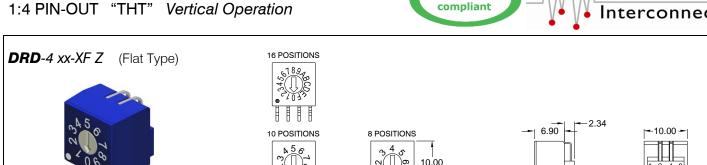


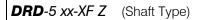


DRD Series 10x10 Size sealed ROTARY TYPE

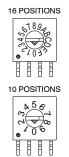


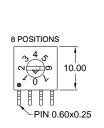
3.50



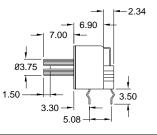




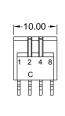




PIN 0.60x0.25

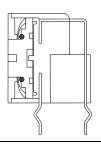


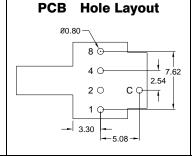
3.30



Rotor color: Orange

Construction





Code **POSITION** Pin No. 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 0 0 0 0 0 0 0 2 4 8 Real Code Rotor color: Yellow O Complementary Code

Electrical data

Contact Rating -switching -non-switching Contact Resistance -initial

-after life test Insulation Resistance Withstanding Voltage 25 mA, 24 V DC 100 mA, 50 V DC

 $50 \text{ m}\Omega \text{ max}.$ 100 m Ω max.

1000 M Ω min. at 100 V DC 250 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

Operating Temperature Storage Temperature Operating Force Mechanical Life

-40°C to +85°C 500 gf-cm max. (torque) 2000 steps per position

Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

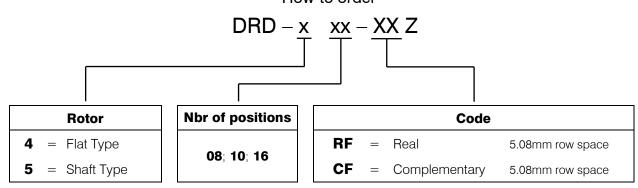
- 25°C to +70°C

FEATURES

- Molded-in terminals and fully sealed construction
- Standard 2.54mm pin to pin, and 5.08mm DIP space
- All plastics are UL 94V-0 grade fire retardant
- Reliable contact and long-term stability

- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available
- Gold plated contacts to ensure low contact resistance. Terminals Tin plated.





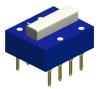
DDG / DDS Series

SLIDE STANDARD PROFILE "THT" TYPE

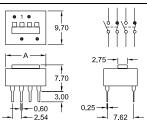








Position	1	2	3
Dim. "A"	11.70	21.70	31.80
			Unit: mm

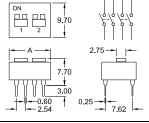


DPST Contact Type

Standard Actuator only!



Position	1	2	3	4	5	6
Dim. "A"	6.70	11.70	16.70	21.70	26.70	31.80
						I Init: mm

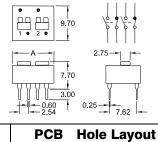


SPDT Contact Type

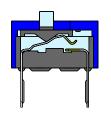
Standard Actuator only!



Position	1	2	3	4	5	6
Dim. "A"	6.70	11.70	16.70	21.70	26.70	31.80
						Unit: mm

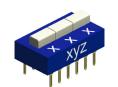


Construction

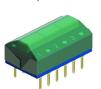


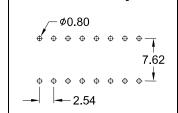


1. Special top and/or side marking available









Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

 $50 \text{ m}\Omega \text{ max}.$

100 m Ω max.

1000 M Ω min. at 100 V DC

500 V AC for 1 Minute

5 pF max.

SPECIFICATIONS

Mechanical and Environmental data

Operating temperature Storage temperature

Operating force

Mechanical life

Vibration

- $25^{\circ}C$ to $+70^{\circ}C$

-40°C to +85°C

800 gf max.

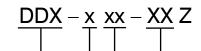
2000 operations

10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastics used are UL 94V-0 grade fire retardant
- Epoxy sealed bottom to prevent the penetration of flux during wave soldering
- Gold plated (tin on legs) or Silver plated (tin on legs) contacts to ensure low contact resistance and long mechanical life
- Ideal for Data Processing, Telecommunication, Remote Control and Burglar Alarm System use, where manual programming is required
- Standard packing method Tube

How to order



Series

DDG = Gold

(Type 2 Tin/Gold) plated Contacts

DDS = Silver plated Contacts

Contact Type

DPST

3 SPDT

= DPDT

Nbr of positions

see under position/dimension box above

Example: 1 Position = **01**

2 Position = 02

Actuator and Sealing

S Standard Actuator

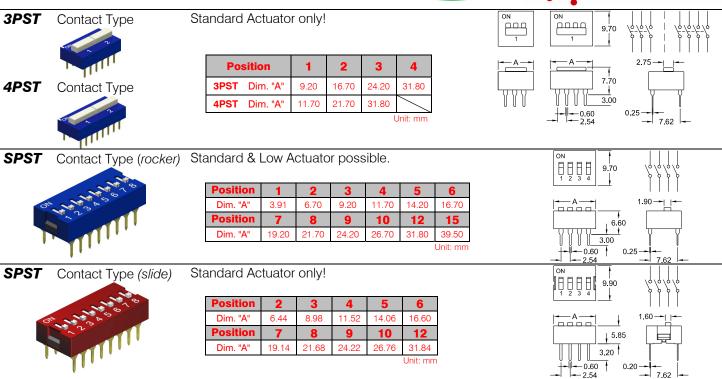
ST = Standard Actuator & Tape sealed

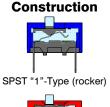
DDG Series

SLIDE STANDARD PROFILE "THT" TYPE



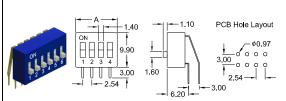




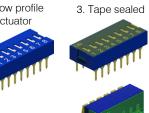




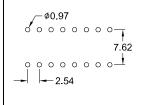
1. Right Angle for SPST "1" Type; 1 to 15 positions Right Angle for SPST "N" Type; 2 to 12 positions



2. Low profile actuator



Hole Layout



Electrical data

Contact Rating

SPST "N"-Type (slide)

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

50 m Ω max.

100 m Ω max.

1000 M Ω min. at 100 V DC

500 V AC for 1 Minute

5 pF max.

SPECIFICATIONS

Mechanical and Environmental data

Operating temperature Storage temperature Operating force

Mechanical life Vibration

Color (Standard)

- 25°C to +70°C - 40°C to +85°C

800 gf max. 2000 operations

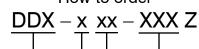
10 Hz - 50 Hz - 10 Hz for 6 hours

SPST (rocker) "1" Type: blue SPST (slide) "N" Type red others blue

FEATURES

- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastics used are UL 94V-0 grade fire retardant
- Epoxy sealed bottom to prevent the penetration of flux during wave soldering
- Gold plated contacts (tin on legs) to ensure low contact resistance and long mechanical life
- Ideal for Data Processing, Telecommunication, Remote Control and Burglar Alarm System use, where manual programming is required
- Standard packing method Tube

How to order



DDG = Gold plated Contacts

Series

Contact Type

SPST (rocker)

SPST (slide)

3PST (rocker) = 4PST (rocker)

Nbr of positions

see under position/dimension box above

Example:

1 Position = **01** 2 Position = 02 etc.

Actuator	and	Sealing

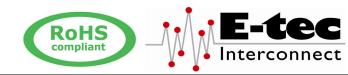
S Standard Actuator L Low Profile Actuator

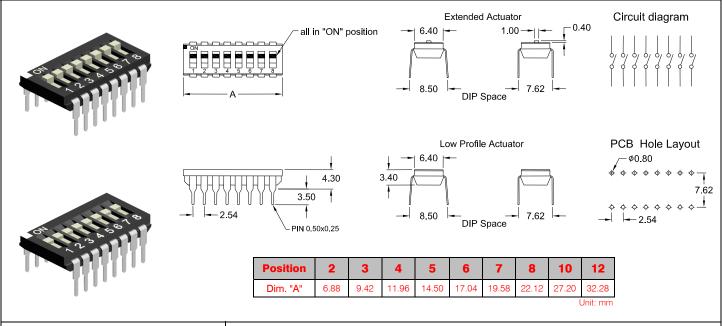
LT Low Profile Actuator & Tape sealed ST Standard Actuator & Tape sealed

SRA Right Angle Type

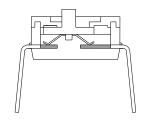
DAH Series

SLIDE AUTO INSERTING "THT" TYPE





Construction



Options

1. Two kinds of pitch available as attached table

Actuator	Pitch(mm)						
Type	Standard	Option					
E	7.62	8.50					
L	8.50	7.62					

2. Special marking and body color available



3. Tape sealed



SPECIFICATIONS

Electrical data

Contact Rating

-switching -non-switching Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

50 m Ω max. 100 m Ω max. 1000 M Ω min. at 100 V DC

500 V AC for 1 Minute

5 pF max

Mechanical and Environmental data

Operating temperature - 25°C to +70°C Storage temperature - 40°C to +85°C Operating force 800 gf max. Mechanical life 2000 operations

Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

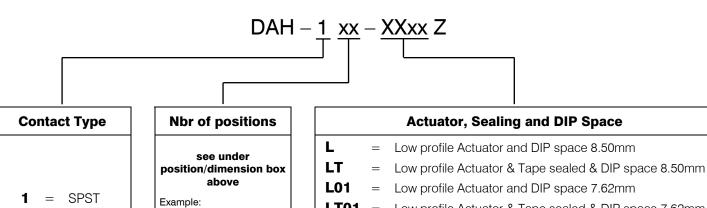
- Same size as an IC, 7.62mm (.300"), can be assembled by any automatic IC Inserter
- Smaller size makes better heat convection during PC board wave
- Tape sealed to withstand solder vapors and board washing
- All plastics used are UL 94V-0 grade fire retardant
- Twin contact design to ensure stable contact
- Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)

Low profile Actuator & Tape sealed & DIP space 7.62mm

Extended Actuator and DIP space 7.62mm

Standard packing method Tube

How to order



3 Position = 03 etc.

2 Position = **02**

E01 Extended Actuator and DIP space 8.50mm

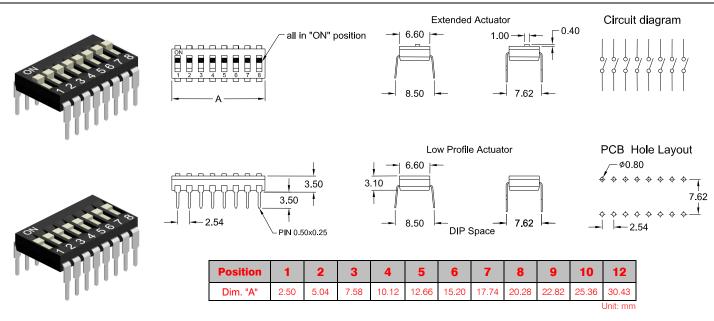
LT01

Ε

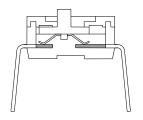
DAM Series

SLIDE END STACKABLE "THT" TYPE





Construction



Options

1. Two kinds of pitch available as attached table

Actuator	Pitch	(mm)
Type	Standard	Option
E	7.62	8.50
L	8.50	7.62

Special marking and body color available



3. Tape sealed



Electrical data

Contact Rating

-switching -non-switching

Contact Resistance

-initial

-after life test Insulation Resistance Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

5 pF max.

50 m Ω max. 100 m Ω max. 1000 M Ω min. at 100 V DC 500 V AC for 1 Minute

SPECIFICATIONS

Mechanical and Environmental data

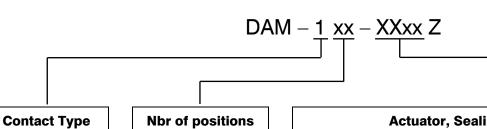
Operating temperature - 25°C to +70°C
Storage temperature - 40°C to +85°C
Operating force 800 gf max.
Mechanical life 2000 operations

Vibration 10 Hz – 50 Hz – 10 Hz for 6 hours

FEATURES

- End stackable for standard 2.54mm (.100") integrated circuit pitch
- Same size as an IC, 7.62mm (.300"), can be assembled by any automatic IC Inserter
- Tape sealed to withstand solder vapors and board washing
- All plastics used are UL 94V-0 grade fire retardant
 - Twin contact design to ensure stable contact
 - Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)
 - Standard packing method Tube

How to order



Contact Type

1 = SPST

see under position/dimension box above

Example: 1 Position = **01** 2 Position = **02** etc.

Actuator, Sealing and DIP Space

L = Low profile Actuator and DIP space 8.50mm

LT = Low profile Actuator & Tape sealed & DIP space 8.50mm

L01 = Low profile Actuator and DIP space 7.62mm

LT01 = Low profile Actuator & Tape sealed & DIP space 7.62mm

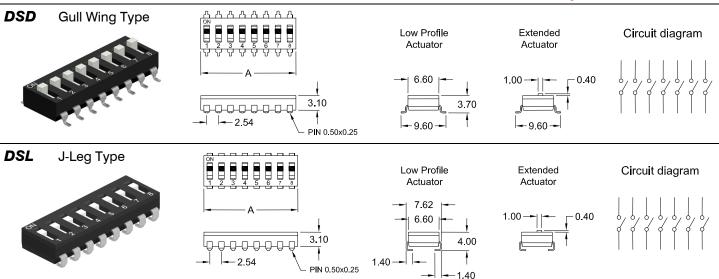
E = Extended Actuator and DIP space 7.62mm E = Extended Actuator and DIP space 8.50mm

DSD / DSL Series

SLIDE END STACKABLE "SMT" TYPE







Position 5 10 Dim. "A" 2.50 5.04 7.58 10.12 12.66 15.20 17.74 20.28 22.82 25.36 30.43

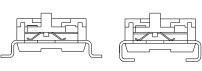
DSL Series: 1 position switch is not available

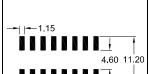
Unit: mm



DSD







SMT Layout

Options

1. Special marking and body color available







SPECIFICATIONS

Electrical data

Contact Rating

-switching

-non-switchina

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

PCB

50 m Ω max.

100 m Ω max. 1000 M Ω min. at 100 V DC

500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

Operating Temperature - 25°C to +70°C Storage Temperature - 40°C to +85°C

Soldering Temperature

-SMT reflow soldering

250°C +0/-5°C for 10 sec. Operating Force 800 gf max.

Mechanical Life 2000 operations

Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- End stackable for standard 2.54mm (.100") integrated circuit pitch
- Tape sealed to withstand solder vapors and board washing
- All plastics used are UL 94V-0 grade fire retardant
- Twin contact design to ensure stable contact
 - Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)

How to order

DSX - 1 xx - XX Z

Series

DSD = Gull Wing Type

DSL = J-Leg Type

Nbr of positions

see under position/dimension box above

Example: 1 Position = **01** 2 Position = 02

Actuator, Sealing and Packing

Low Profile Actuator; Tube packing

LT Low Profile Actuator & Tape sealed; Tube packing

LC Low Profile Actuator; Reel packing

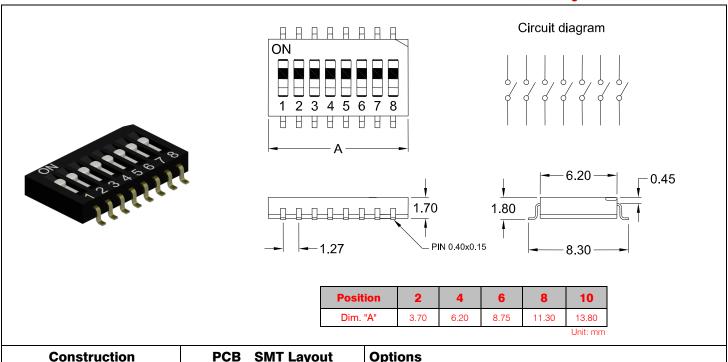
LD Low Profile Actuator & Tape sealed; Reel packing

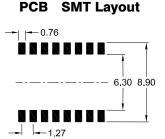
Ε Extended Actuator; Tube packing

DHS Series

SLIDE HALF PITCH (1.27mm) "SMT" TYPE







Options

1. Special marking and body color available

2. Tape sealed





Electrical data

Contact Rating -switching -non-switching Contact Resistance -initial

-after life test Insulation Resistance Withstanding Voltage

Capacitance between adjacent switches

25 mA. 24 V DC 100 mA, 50 V DC

 $50~\text{m}\Omega$ max. 100 m Ω max. 500 $\mbox{M}\Omega$ min. at 100 V DC 300 V AC for 1 Minute 5 pF max.

SPECIFICATIONS Mechanical and Environmental data

Operating Temperature - 25°C to +70°C

Storage Temperature Soldering Temperature

-SMT reflow soldering

Operating Force 800 gf max.

Mechanical Life 1000 operations

Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

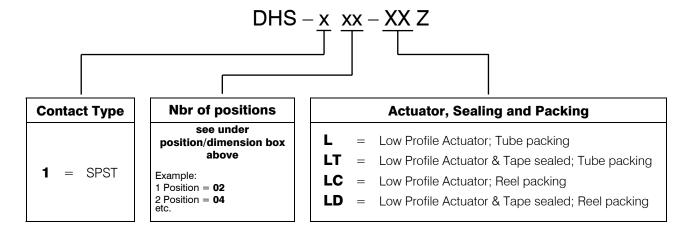
- 40°C to +85°C

250°C +0/-5°C for 10 sec.

FEATURES

- End stackable for standard 1.27mm (.050") integrated circuit pitch
- Lowest profile DIP Switch, only 1.80mm above PCB
- Tape sealed to withstand solder vapors and board washing
- All plastics used are UL 94V-0 grade fire retardant
 - Gold plated contacts, contact & solder area (gold/gold), to ensure low contact resistance

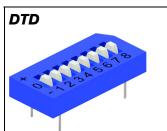
How to order



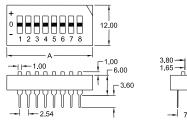
DTD / DTA / DTS Series

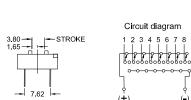
SLIDE TRI-STATE "THT" & "SMT" TYPE





Position	4	5	6	7
Dim. "A"	15.30	17.84	20.38	22.92
Position	8	9	10	
Dim. "A"	25.46	28.00	30.54	
				Unit: mm





DTA

DTS

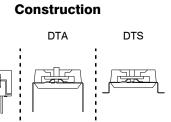
DTD

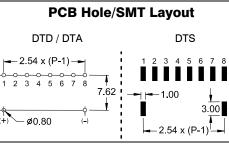


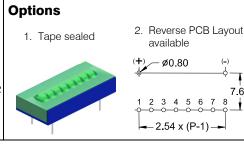
Position	2	3	4	5
Dim. "A"	6.88	9.42	11.96	14.50
Position	6	7	8	9
Dim. "A"	17.04	19.58	22.12	24.66
Position	10	12		
Dim. "A"	27.20	32.28		

| Circuit diagram | 1.00 | Circuit diagram | 1









- 25°C to +70°C

- 40°C to +85°C

SPECIFICATIONS

Electrical data

Contact Rating
-switching
-non-switching
Contact Resistance
-initial

-after life test Insulation Resistance Withstanding Voltage

Withstanding Voltage
Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

 $50~\text{m}\Omega$ max. $100~\text{m}\Omega~\text{max}.$ $1000~\text{M}\Omega~\text{min. at }100~\text{V DC}$ 500~V AC for 1 Minute 5~pF max.

Mechanical and Environmental data

Operating temperature
Storage temperature
Operating force
Machanical life

Mechanical life
Vibration

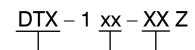
ng force 800 gf max. nical life 2000 operations

10 Hz – 50 Hz – 10 Hz for 6 hours

FEATURES

- With three state (1-open-0) setting function, especially suitable for encoding/decoding of tri-state encoder/decoder integrated circuit to obtain more security codes than traditional two-state (1-0) operation.
 For instance, 9 bits with tri-state gets 19,683 (3º) codes, while two-state has 512 (2º) codes, gains 38 times in former
- All plastics used are UL 94V-0 grade fire retardant
- Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)
 - Twin contacts designed to ensure stable contact
 - Ideal for Telecommunication, Transmitter, Remote Control and Burglar Alarm Systems which use integrated circuits with tri-state coding systems
 - Standard packing method Tube

How to order



Series

DTD = Bottom Epoxy Sealed THT Type

DTA = Low Profile THT Type
DTS = Low Profile SMT Type

Nbr of positions

see under position/dimension box above

Example: 2 Position = **02** 3 Position = **03**

Actuator and Sealing

E = Extended Actuator

ET = Extended Actuator & Tape sealed

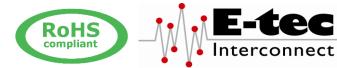
Low Profile Actuator for DTA & DTS Series only!

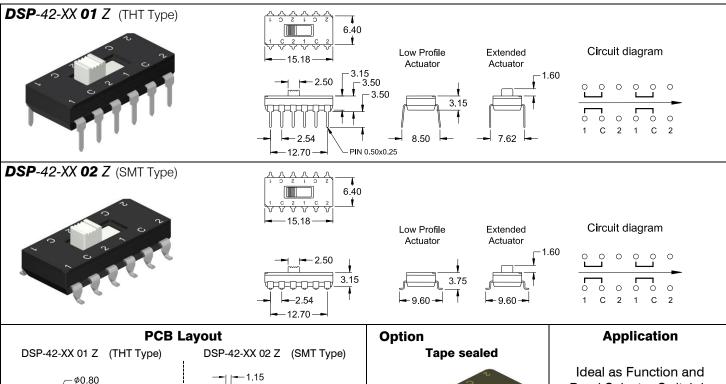
L = Low Profile Actuator

LT = Low Profile Actuator & Tape sealed

DSP Series

SELECTOR SLIDE SWITCH "THT" & "SMT" TYPE





Electrical data

Φ Φ Φ Φ

Φ Φ Φ

- 2.54

12.70

7 62

Contact Rating -switching -non-Switching Contact Resistance -initial -after life test Insulation Resistance Withstanding Voltage

25 mA, 24 V DC 100 mA, 50 V DC

-12.70

 $50 \text{ m}\Omega$ max. $100~\text{m}\Omega$ max. 1000 M Ω min. at 100 V DC 500 V AC for 1 Minute 5 pF max.



Band Selector Switch in Radio-Cassette, Recorder, Office Equipment, TV sets, VCR etc.

SPECIFICATIONS

4.60 11.20

Mechanical and Environmental data

Operating Temperature Storage Temperature Soldering Temperature

-SMT reflow soldering -THT wave soldering

Operating Force Mechanical Life Vibration

- 25°C to +70°C - 40°C to +85°C

250°C +0/-5°C for 10 sec. max. 250°C +0/-5°C for 10 sec. max. 100 gf min / 1000 gf max. 1000 operations

10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

Same size as an IC, 7.62mm (.300"), can be assembled by any automatic IC Inserter

Capacitance between adjacent switches

- Top tape sealed to withstand solder vapors and board washing
- All plastics used are UL 94V-0 grade fire retardant
- Gold plated contacts to ensure low contact resistance and tin plated terminal to prevent contamination during soldering

How to order

$$DSP - \underline{42} - \underline{XX \times X} Z$$

42 = 4PDT

Contact Type

		Device Type, Actuator, DIP Space & Packing
L01	=	THT Type; Low Profile Actuator DIP space 8.50mm; Tube packing
LT01	=	THT Type; Low Profile Actuator DIP space 8.50mm; Top sealed; Tube packing
E01	=	THT Type; Extended Actuator DIP space 7.62mm; Tube packing
L02	=	SMT Type; Low Profile Actuator; Tube packing

LT02 = SMT Type; Low Profile Actuator; Top sealed; Tube packing

LC02 = SMT Type; Low Profile Actuator; Reel packing

LD02 = SMT Type; Low Profile Actuator; Top sealed; Reel packing

E02 SMT Type; Extended Actuator; Tube packing **EC02** SMT Type; Extended Actuator; Reel packing

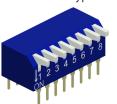
DPG / DPS Series

PIANO STANDARD PROFILE "THT" TYPE

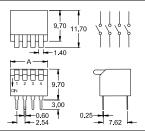








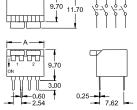
Position	2	3	4	5	6
Dim. "A"	6.70	9.20	11.70	14.20	16.70
Position	7	8	9	10	12
Dim. "A"	19.20	21.70	24.20	26.70	31.80



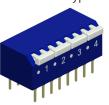
DPST Contact Type



Position	1	2	3	4	5	6
Dim. "A"	6.70	11.70	16.70	21.70	26.70	31.80
					1	Init: mm

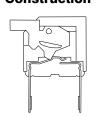


SPDT Contact Type

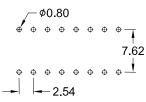


Position	1	2	3	4	5	6
Dim. "A"	6.70	11.70	16.70	21.70	26.70	31.80
						Jnit: mm

Construction



PCB **Hole Layout**



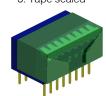
Options

1. Top side "OFF" and "ON" available 2. Black body color available

Unit: mm



3. Tape sealed



SPECIFICATIONS

Electrical data Contact Rating

-switching -non-switching Contact Resistance

-initial -after life test

Insulation Resistance Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

 $50 \text{ m}\Omega$ max. 100 m Ω max.

1000 $\text{M}\Omega$ min. at 100 V DC 500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

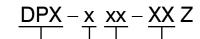
Operating temperature - 25°C to +70°C - 40°C to +85°C Storage temperature Operating force 800 gf max. Mechanical life 1000 operations

Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Edge actuated (piano type) easy setting on closely racked PCB
- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastic are UL 94V-0 grade fire retardant
- Bottom epoxy sealed standard to ensure free of flux immersion during wave solderina
- Contact wiping on make and break
- Gold plated (gold/gold) or Tin plated contact to ensure low contact resistance and long operation life
- Ideal for Data Processing, Telecommunication, Remote Control and Burglar Alarm System use, where manual programming is required

How to order



Series

DPG = Gold plated Contacts

DPS = Tin plated Contacts

Contact Type

SPST

DPST

3 = SPDT

Nbr of positions

see under position/dimension box above

Example:

etc.

1 Position = 01 2 Position = **02**

"ON/OFF" Position and Sealing

Α Top side **OFF**

AT Top side OFF & Tape sealed

В Top side **ON**

BT = Top side ON & Tape sealed

DPG / DPS Series

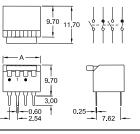
PIANO STANDARD PROFILE "THT" TYPE



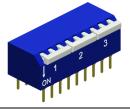




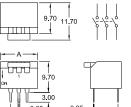
Position	1	2	3
Dim. "A"	11.70	21.70	31.80
Unit: mm			



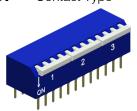
3PST Contact Type



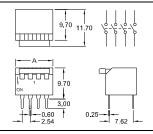
Position	1	2	3	4
Dim. "A"	9.20	16.70	24.20	31.80
				Unit: mm



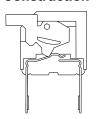
4PST Contact Type

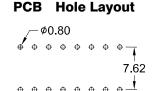


Position	1	2	3
Dim. "A"	11.70	21.70	31.80
		l	Jnit: mm



Construction





-2.54

Options

1. Black body color available





Application

Ideal for Data Processing, Telecommunication, Remote Control and Burglar Alarm System use, where manual programming is required.

SPECIFICATIONS

Electrical data

Contact Rating -switching -non-Switching Contact Resistance -initial -after life test

Insulation Resistance Withstanding Voltage Capacitance between adjacent switches 25 mA, 24 V DC 100 mA, 50 V DC

50 m Ω max. 100 m Ω max. 1000 $\text{M}\Omega$ min. at 100 V DC 500 V AC for 1 Minute 5 pF max.

Mechanical and Environmental data

Operating temperature Storage temperature Operating force Mechanical life

800 gf max. 1000 operations Vibration

10 Hz - 50 Hz - 10 Hz for 6 hours

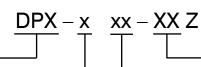
- 25°C to +70°C

- 40°C to +85°C

FEATURES

- Edge actuated (piano type) easy setting on closely racked PCB
- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- Bottom epoxy sealed standard to ensure free of flux immersion during wave soldering
- Contact wiping on make and break
 - All plastics used are UL 94V-0 grade fire retardant
 - Gold plated (gold/gold) or Tin plated contact to ensure low contact resistance and long operation life

How to order



Series

DPG = Gold plated Contacts

DPS = Tin plated Contacts

Contact Type

3PST

4PST

= DPDT

Nbr of positions

see under position/dimension box above

Example:

1 Position = **01** 2 Position = 02 etc.

Actuator and Sealing

Α = Top side **OFF**

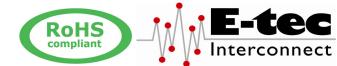
AT = Top side OFF & Tape sealed

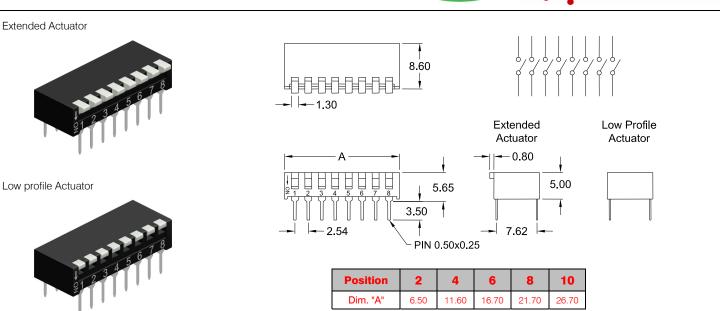
В = Top side ON

BT = Top side ON & Tape sealed

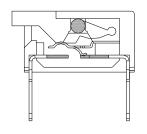
DPH Series

PIANO LOW PROFILE "THT" TYPE

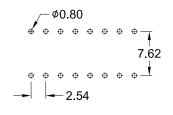




Construction



PCB Hole Layout



Option

Tape sealed



SPECIFICATIONS

Electrical data

Contact Rating -switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

100 m Ω max.

200 m Ω max.

100 $\text{M}\Omega$ min. at 500 V DC

500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

Operating Temperature Storage Temperature

Operating Force

800 gf max. Mechanical Life

1000 operations

- 25°C to +70°C

-40°C to +85°C

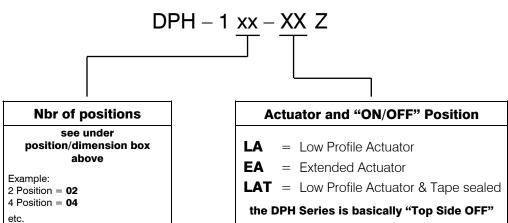
10 Hz - 50 Hz - 10 Hz for 6 hours Vibration

FEATURES

- Edge actuated (piano type) easy setting on closely racked PCB
- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastic are UL 94V-0 grade fire retardant

- Twin contact design to ensure stable contact
- Contact wiping on make and break
- Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)



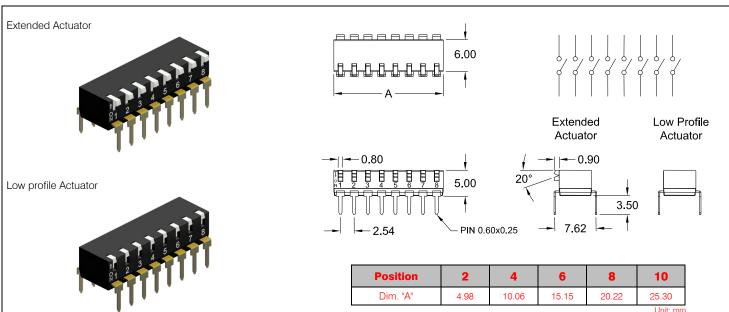


DPI Series

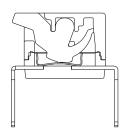
PIANO LOW PROFILE "THT" TYPE END STACKABLE



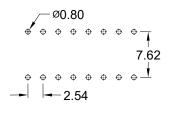




Construction



Hole Layout



Precautions in Handling

Do not wash the switch! Washable Type not available.

SPECIFICATIONS

Electrical data

Contact Rating -switching -non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

100 mA, 50 V DC 100 m Ω max.

 $200~\text{m}\Omega$ max.

25 mA, 24 V DC

100 $\text{M}\Omega$ min. at 500 V DC

500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

Operating Temperature -20°C to +85°C Storage Temperature - 40°C to +85°C Operating Force 800 gf max. Mechanical Life 2000 operations

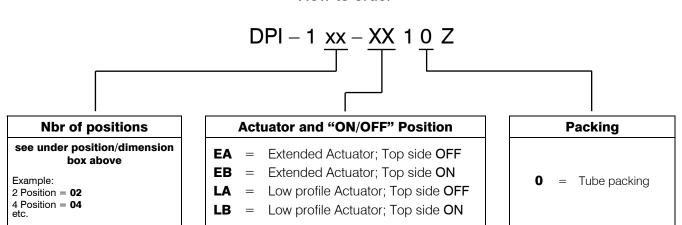
Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- End stackable for standard 2.54mm (.100") integrated circuit pitch
- Twin contact design to ensure stable contact

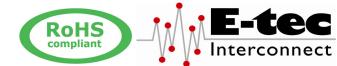
- All plastics used are UL 94V-0 grade fire retardant
- Gold plated contacts, contact & solder area (gold/gold), to ensure low contact resistance

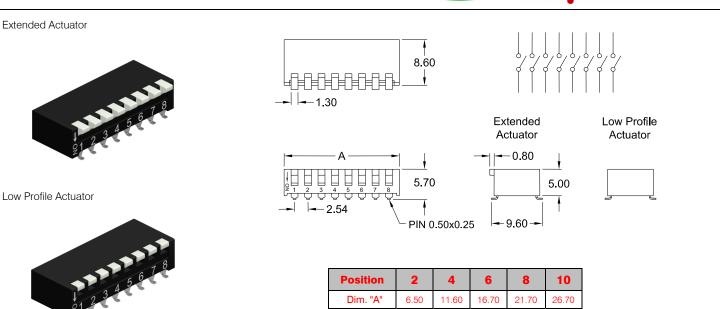
How to order



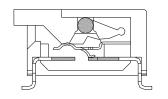
DPA Series

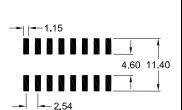
PIANO LOW PROFILE "SMT" TYPE





Construction





PCB SMT Layout

Option

Tape sealed



- 25°C to +70°C

-40°C to +85°C

SPECIFICATIONS

Electrical data

Contact Rating

-switching

-non-Switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

50 m Ω max. 100 m Ω max.

1000 M Ω min. at 100 V DC

500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

Operating Temperature

Storage Temperature

Soldering Temperature

-SMT reflow soldering

250°C +0/-5°C for 10 sec.

Operating Force 800 gf max. Mechanical Life 1000 operations

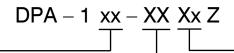
Vibration 10 Hz - 50 Hz - 10 Hz for 6 hours

FEATURES

- Edge actuated (piano type) easy setting on closely racked PCB
- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastic are UL 94V-0 grade fire retardant

- Twin contact design to ensure stable contact
- Contact wiping on make and break
- Gold plated contacts to ensure low contact resistance, and tin plated terminal to prevent contamination during soldering (gold/tin)

How to order



Nbr of positions

see under position/dimension box above

Example:

2 Position = **02**

4 Position = 04

Actuator and "ON/OFF" Position

EA = Extended Actuator; Top side **OFF**

LA = Low Profile Actuator; Top side **OFF**

Packing and Sealing

00 = Tube packing

10 = Reel packing

00 = Tube packing

10 = Reel packing

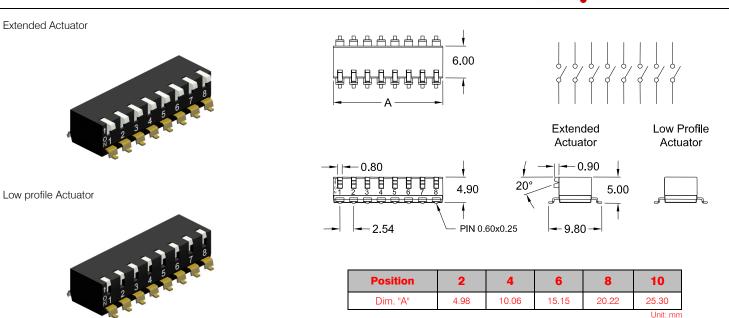
T0 = Tube packing & Tape sealed

T1 = Reel packing & Tape sealed

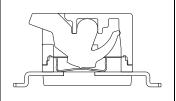
DPM Series

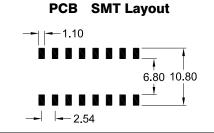
PIANO LOW PROFILE "SMT" TYPE END STACKABLE





Construction





Precautions in Handling

Do not wash the switch! Washable Type not available.

250°C +0/-5°C for 10 sec.

SPECIFICATIONS

Electrical data

Contact Rating

-switching

-non-switching

Contact Resistance

-initial

-after life test

Insulation Resistance

Withstanding Voltage

Capacitance between adjacent switches

25 mA, 24 V DC 100 mA, 50 V DC

100 m Ω max.

 $200 \text{ m}\Omega \text{ max}$

100 M Ω min. at 500 V DC 500 V AC for 1 Minute

5 pF max.

Mechanical and Environmental data

Operating Temperature - 20°C to +85°C - 40°C to +85°C

Storage Temperature

Soldering Temperature

-SMT reflow soldering

Operating Force 800 gf max.

Mechanical Life

2000 operations

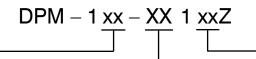
10 Hz - 50 Hz - 10 Hz for 6 hours Vibration

FEATURES

- End stackable for standard 2.54mm (.100") integrated circuit pitch
- Twin contact design to ensure stable contact

- All plastics used are UL 94V-0 grade fire retardant
- Gold plated contacts, contact & solder area (gold/gold), to ensure low contact resistance

How to order



Nbr of positions

see under position/dimension box above

Example:

2 Position = **02**

4 Position = **04**

Actuator and "ON/OFF" Position

EA = Extended Actuator; Top side **OFF**

EB = Extended Actuator; Top side **ON**

LA = Low profile Actuator; Top side **OFF**

LB = Low profile Actuator; Top side **ON**

Packing

Tube packing 10

11 Reel packing

10 Tube packing

11 Reel packing

T₀ Tube packing & Tape sealed

T1 Reel packing & Tape sealed

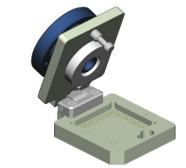
Other products from E-tec

Please contact your closest sales office for further information.





Customized Products



Test Sockets & Adapters



IC - Sockets



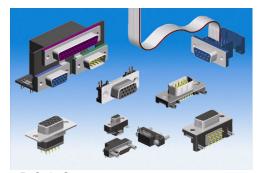
Compact Flash Connectors



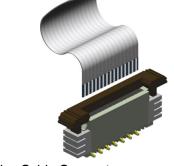
USB & IEEE 1394 Connectors



Mini PCI Express Connectors



D-Sub Connectors



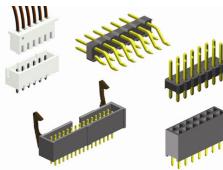
Flex Cable Connectors



HDMI Connectors



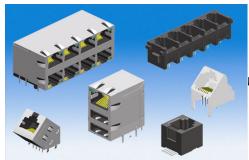
Probe Pin & Probe Pin Connectors



PCB Connectors



Multi Media Card Connectors



Modular Plugs & Jacks



Phono - & DC - Power Connectors



RF - Connectors



The E-tec Group

For over 40 years E-tec have manufactured and supplied a diverse range of electronic interconnect solutions across the global market. Our portfolio has grown with our customers, to include Test Sockets, IC sockets, PCB interconnect products, D-Subs, Switches, RF connectors and cable assemblies. We design, develop, produce and provide sales and support directly to our customers. With production facilities in Switzerland, Taiwan, UK and China, we offer flexible capacity with short delivery times from prototype to large volume production series. In this way, E-tec are ideally positioned to provide a genuinely global service, from product conception to production, wherever and whenever our customers require it.

E-tec connectors, cables, sockets and specials are found in the most demanding of application fields, including; aerospace, automotive, communications, defence, medical, pumping and vacuum, sensor and safety equipment, transportation and much more. At E-tec, our experienced team understand uncompromising quality and dedicated service are the foundations of successful project delivery. We are ISO9001 certified, and many products are UL listed and TS16949 accredited to meet exacting industry standards. We welcome your enquiries, please contact us or visit our website and we will respond promptly.



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