

DIPTRONICS



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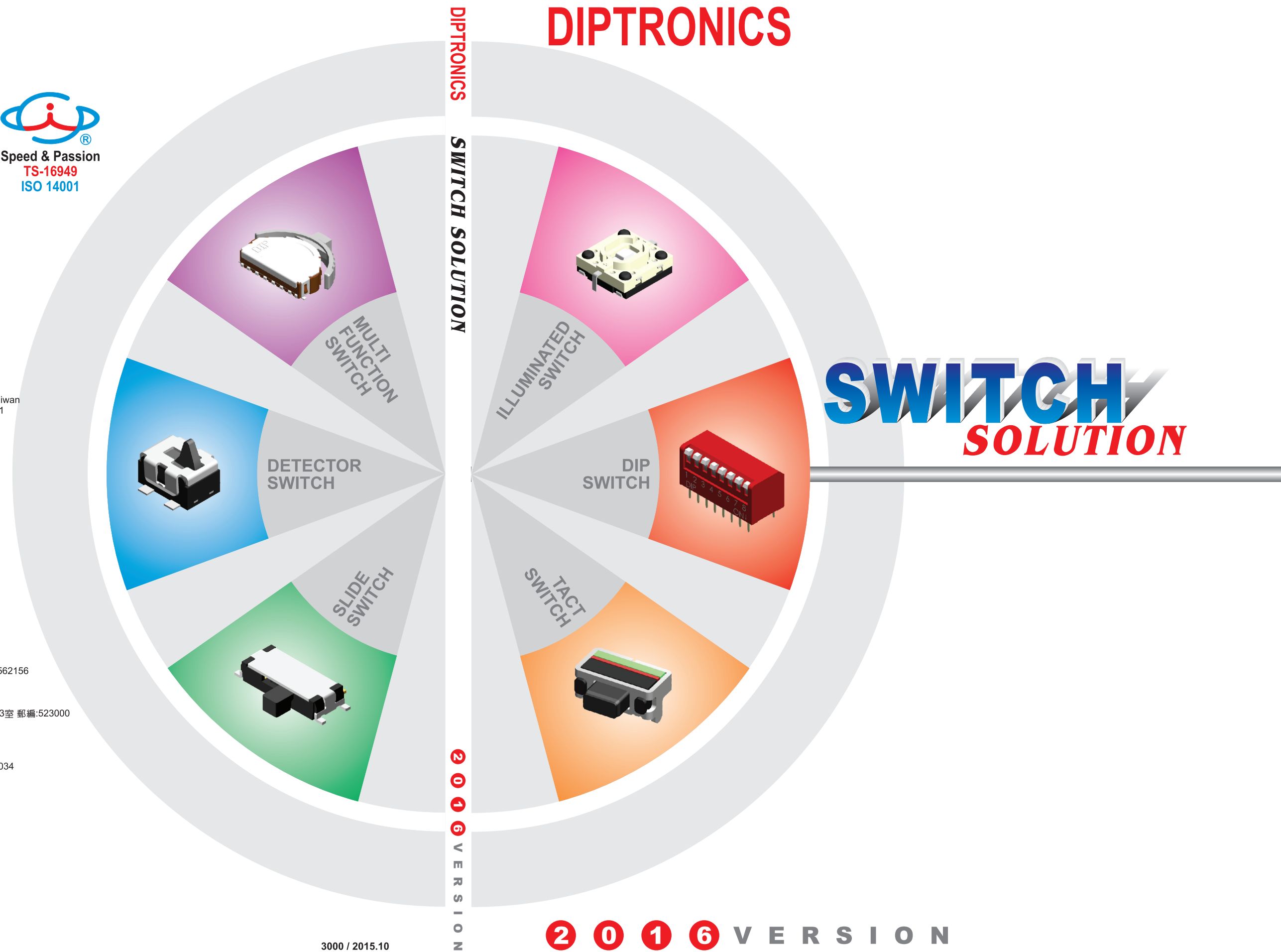
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SWITCH SOLUTION

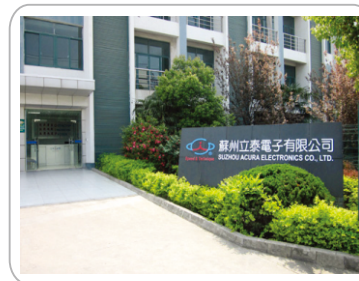
DIPTRONICS MANUFACTURING INC.

A Worldwide Leading Switch Manufacturer

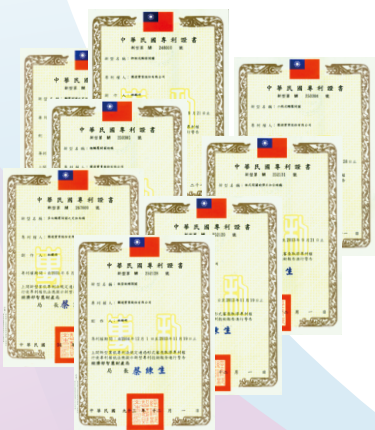


塑造學習、挑戰和分享的環境，不斷成長，
成為全球最佳電子零組件廠之一

To build a learning, challenging, and sharing environment to be
One of the best component manufacturers in the world.



專利證書(中國)
Patent Certificate(China)



專利證書(台灣)
Patent Certificate(Taiwan)

圖達實業股份有限公司於1985年在台灣新北市創立，並於1993年起陸續在中國珠海、江蘇、江西、湖南、越南成立生產基地，專業研發製造各類程式開關、觸動開關、旋轉開關、滑動開關及複合功能開關等多項產品，並取得TS-16949及ISO 14001認證，產品行銷海內外達100餘國。

31年來，經由不斷地垂直整合，圖達逐步發展出強而有力的核心競爭優勢。從產品研發、原物料購入到完成品供應給客戶，所有生產製程（包含產品研發、電鍍、LED燈、模具及設備加工、金屬沖壓、塑膠射出、自動化設備製作組裝等）都在廠內完成。

圖達的產品可廣泛使用在例如消費性電子產業（手機、數位相機、平板電腦、筆記型電腦...）、雲端裝置、汽車業、家電業、醫療器材及信息業等，全球近乎50%的NB產業，都使用圖達生產的開關。

秉持著「卓越與學習、創新與挑戰、團隊與熱忱」的經營理念，圖達將持續專注本業，研發新技術，並積極投入帶LED燈的開關、智慧型手機開關的開發，及提供更迅速、更多樣的開關產品來滿足客戶需求。

Diptronics Manufacturing Inc., founded in 1985, is a TS16949 and ISO14001 certified manufacturer specializing in dip, tact, rotary, slide, detector, multi-functional, and illuminated switch manufacturing. Four major production sites were established in China since 1993—Zhuhai; Jiangsu; Jiangxi; Hunan and Vietnam. With complete in-house production lines, from raw materials to finished products including in-house press, injection, assembly, and plating, Diptronics offers customers timely delivery with superior quality. Our switches are exported to more than 100 countries worldwide.

Diptronics switches can be widely used in various industries, such as consumer electronics (smart phone, digital camera, tablet PC, notebook), automotive products, white goods, medical products, telecommunication, and etc. Today, Diptronics switches account for about 50% of notebook market globally. In line with market expectation, Diptronics is one of a few companies in the industry that has in-house assembly line for both LED lamps and LED switches.

Diptronics continues to develop smaller, thinner, and creative switches for our customers to fulfill the fast changing market demand. We build innovated partnership with customers around the world.

SPEED & PASSION

MANAGING CONCEPT

DISTINCTION **I**NNOVATION **P**ASSION



我們的競爭優勢:

◎ 產品線

- 「指撥開關」產量全球第一。
- 「輕觸開關」產量全球第三。
- 「滑動開關、偵測開關、複合式開關」產量為全球前五大。

◎ 國際認證

取得TS-16949、ISO14001，所有產品皆符合無鉛、無鹵規範要求。

◎ 核心競爭力

- ※ 擁有垂直整合之核心技術力（產品研發、電鍍、模具及設備加工、金屬沖壓、塑膠射出、自動化設備製作組裝等），可因應客戶客製化需求，少量多樣化，快速交貨。
- ※ 專業經營團隊，長期穩定持續成長，迎接各種挑戰。

◎ 全球唯一

自製生產LED燈及開關，並將兩者結合成爲生產LED開關的專業製造廠。

Diptronics Strengths

◎ Product Capacity:

- Dip switches—Top 1 sales volume worldwide
- Tact switches—Top 3 sales volume worldwide
- Slide/Detector/Multi-functional switches—top 5 sales volume worldwide

◎ Quality Assurance:

TS16949 & ISO14001 certified and all of our products are RoHS & Halogen free compliant.

◎ Integration of core competence:

- ※ Expertise in complete in-house production with vertical integration. We uphold the spirit of “speed” and “passion” by serving fast delivery with product variety.
- ※ Professional R&D team for constant growth and different challenges.

◎ LED Integration:

Diptronics is one of a few companies that has LED and switch integration with in-house assembly line.

● 3C / IT Industry

- Cloud Devices
- Automobile Industry
- White Goods
- Medical Devices
- Automatic Home Appliances

產品應用 Application



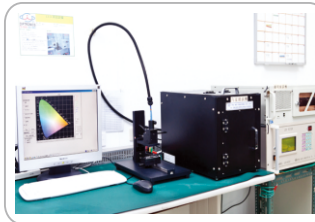
Dropping Tester



Plating Facility



LED Assembly Center



LED-38T Optic-Electrical Tester
LED Angle Tester



LED Array Spectrometer



SEM (Scanning Electron Microscopy)
EDS (Energy dispersive spectroscopy)



Press M/C



Optical Projection Grinding Machines



Automated Production Equipment



LED FT-IR



Plastic Injection Machines



CNC Milling Machines

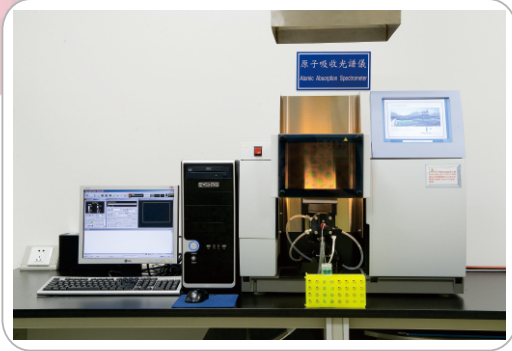


Wire-cut Electrical Discharge Machines



Precision Electric Discharge Machines

RoHS & HALOGEN FREE SUPPORT



AAS Testing Equipment



Hand-held Elemental Analyzer

所有圖達產品皆符合RoHS規範

- ◎ 為確保產品符合RoHS及特殊客戶要求，公司引進AAS驗證設備，掌控進料及製程之品質。
- ◎ 隨時收集國際法規之要求，即時修訂公司內部之文件進行管控。
- ◎ 「綠色採購」在圖達採購流程中，零件承認時必定請廠商提供 RoHS 檢測報告，經品保單位審核通過後始可使用；同時要求供應商每年提供RoHS更新驗證報告及定期稽核供應商RoHS管制。
- ◎ 為因應新一波的綠色電子浪潮「無鹵素（Halogen-free）」2009年1月份起，陸續導入無鹵素材料。

Diptronics RoHS Implement

- ◎ Is equipped with AAS validating devices for RoHS implementation.
- ◎ Regularly updates internal documentation with worldwide RoHS regulation.
- ◎ Produces green products with only RoHS qualified suppliers and consistently conducts factory audit for RoHS control.
- ◎ Uses Halogen Free raw material since January, 2009 to promote a green Earth.



LEAD-FREE SOLDERING

| ITEM | LEAD-FREE SOLDERING CONDITION |
|------------------|--------------------------------------|
| Hand Soldering | 350°C±10°C /5sec max. |
| Wave Soldering | Pre-Heat 100°C/60sec 260°C±5°C /5sec |
| Reflow Soldering | |



RoHS COMPLIANT

- ※ The limit value that we declare.
 - Pb<100ppm
 - Cd<75ppm
 - Hg<2ppm
 - Cr6<2ppm
 - PBB<Not Detected
 - PBDE<Not Detected
- ※ Start from January 2005



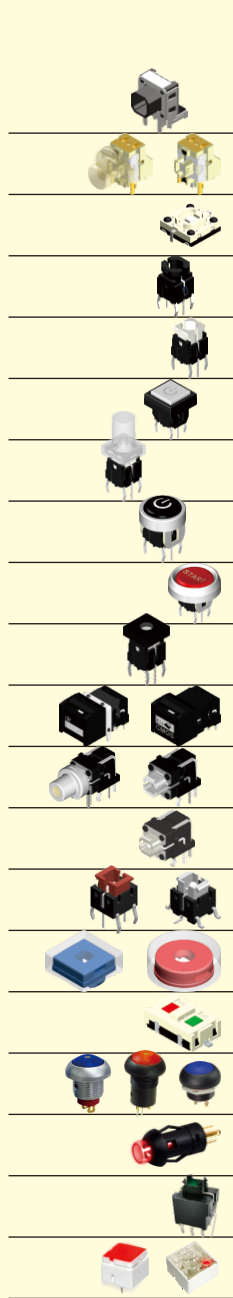
HALOGEN FREE

- Br<900ppm
- Cl<900ppm
- Br+Cl<1500ppm

- ※ Start from 2009

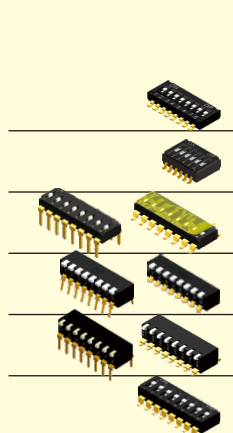
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ILLUMINATED SWITCH



| Series | Contact Type | Features | Dimensions(mm) | Page |
|----------------|---------------|---------------------------|----------------------------|------|
| MLC NEW | Silver | Right Angle | 6.8x7.7 | 12 |
| ML3 | Gold / Silver | Right Angle | 4.5x6.2 | 13 |
| ML4 | Silver | SMT | 4.9x4.9 | 15 |
| ML5 | Silver | Through Hole | 6x6 | 16 |
| ML6-H0 | Silver | Through Hole | 6x6 | 17 |
| ML6-H1 | Silver | Through Hole | 6x6 / Cap:10x10 | 18 |
| ML6-H2 | Silver | Through Hole | 6x6 / Cap:Ø5.5 | 19 |
| ML6-H4 | Silver | Through Hole | 6x6 / Cap:Ø10 | 20 |
| ML6-H5 | Silver | Through Hole | 6x6 / Cap:Ø14 | 21 |
| ML6-H6 | Silver | Through Hole | 6x6 / Cap:7.5x7.5 | 22 |
| ML8 | Silver | Right Angle | 8.7x9.6 | 23 |
| TL(L)A(G)-7 | Silver | Right Angle | 7x7.4 | 25 |
| TLR-7 | Silver | Right Angle | 6.5x7.4 | 27 |
| TL(L)(M)-6 | Silver | Through Hole & SMT | 6.1x6.1 | 28 |
| KTL | | Cap Accessories for TLL-6 | Square:□10.2 / Round:Ø10.2 | 30 |
| TML-3 | Silver | SMT | 6.8x4.1 | 31 |
| ZPA | | Wiring | Ø12 | 32 |
| ZPBL | | Wiring | Ø5.4 | 37 |
| ZPSD | | Through Hole | 8.5x7.5 | 38 |
| ZKS | | Through Hole | 15x15 | 39 |

DIP SWITCH



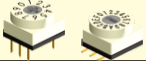





| Series | Contact Type | Features | No. Of Poles | Page |
|---------------|--------------|-----------------------|---------------|------|
| DHN(F) | Gold | Half Pitch (H:1.6 mm) | 2,4,6,8,10 | 41 |
| DHA | Gold | Half Pitch (H:2.2 mm) | 2,4,6,8,10,12 | 43 |
| E(M)(I)(S)(J) | Gold | End Stackable | 1-10 , 12 | 44 |
| NP(I)(M) | Gold | Piano | 2,4,6,8,10 | 47 |
| EP(I)(M) | Gold | End Stackable Piano | 2,4,6,8,10 | 49 |
| D(M)(J)(L) | Gold | SMT | 1-10 , 12 | 51 |

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DIP SWITCH

| | Series | Contact Type | Features | No. Of Poles | Page |
|---|----------|--------------|-----------------------|--------------|------|
|  | NDI | Gold | Through Hole | 1-10 , 12 | 53 |
|  | NDS | Gold | Slide | 1-10 , 12 | 54 |
|  | NDP | Gold | Piano | 2-10, 12 | 55 |
|  | NDA | Gold | Right Angle | 2-10, 12 | 56 |
|  | SIP | Gold | Single in Line | 2,4,6,8,10 | 57 |
|  | TII, TIM | Gold | Tri-State Low Profile | 4,5,8,9,10 | 59 |
|  | TDS | Gold | Tri-State | 8,9,10 | 61 |

ROTARY CODED SWITCH

| | Series | Contact Type | Features | No. Of Step | Page |
|---|---------------|--------------|------------------------|------------------------------------|------|
|  | RB | Gold | Rotary 10x10 Washable | 10, 16 | 62 |
|  | KRB | | Cap Accessories for RB | Short/Long Spindle & Segment Wheel | 64 |
|  | SV3A-4 | Gold | Rotary 10x10 | 4 | 65 |
|  | R(H)(V)(M)(S) | Gold | Rotary 10x10 | 10, 16 | 66 |
|  | RJ | Gold | Rotary 7x7 | 10, 16 | 69 |
|  | R7 | Gold | Rotary 7x7 | 10, 16 | 71 |

TACT SWITCH

| | Series | Contact Type | Features | Dimensions(mm) | Page |
|---|-------------|---------------|--------------------------------|---------------------|------|
|  | TL()-A1 | Silver | Sealed | 10x10 | 74 |
|  | TL()-A2 | Silver | Sealed | 10x10 | 76 |
|  | TL()-B1 | Silver | Sealed | 10x10 | 78 |
|  | TL()-B344 | Silver | Sealed | 10x10 | 80 |
|  | DTSA-2 | Silver | Right Angle | 13.1x14.7 | 82 |
|  | DTSM-2 | Silver | SMT | 12.0x12.0 | 84 |
|  | DTS(G)(P)-2 | Silver | Through Hole & Ground Terminal | 12.0x12.0 | 86 |
|  | DTS(G)-6 | Gold / Silver | Through Hole & Ground Terminal | 6.2x6.2 | 89 |
|  | DTS(M)(J)-6 | Gold / Silver | SMT & J SMT | 6.2x6.2 | 91 |
|  | DTSA-6 | Gold / Silver | Right Angle | 7.3x13.16 / 7.4x7.1 | 94 |








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TACT SWITCH

| | Series | Contact Type | Features | Dimensions(mm) | Page |
|---|----------------|---------------|--------------------------------|---------------------|------|
|  | T7A | Silver | Double Layers Right Angle | 7.4x7.1 | 97 |
|  | DTST-6 | Silver | Radial Taping | 6.2x6.2 | 98 |
|  | KTSC-(6)(2) | | Cap for 6x6/12x12 Tact Switch | Round / Square | 99 |
|  | DTS()W-2 | Silver | Washable | 12.0x12.0 | 100 |
|  | DTSHW-6 | Gold / Silver | Washable | 6.2x6.3 | 102 |
|  | DTS(G)MW-6 | Gold / Silver | Washable | 6.2x6.3 | 104 |
|  | DTSJW-6 | Gold / Silver | Washable | 6.2x6.3 | 106 |
|  | DTSJW()-6 | Gold / Silver | Washable | 6.2x6.3 | 108 |
|  | DTSYHL-6 | Silver | Thinner Type Pitch 4.0mm | 6.2x6.2 | 109 |
|  | DTS(G)ZML-6 | Silver | Thinner Type Pitch 4.5mm | 6.2x6.0 | 110 |
|  | DTS(G)(L)(F)-6 | Silver | Thinner Type Pitch 4.0mm | 6.2x6.4 | 112 |
|  | TA3 | Gold / Silver | Right Angle (SMT) | 6.3x6.18 / 7.11 | 114 |
|  | TA-6 | Silver | Right Angle (SMT) | 6.1x6.6 | 116 |
|  | T1A NEW | Silver | H:0.50mm | 2.8x1.9 | 118 |
|  | T3AL | Silver | H:0.45mm / 0.65mm Washable | 2.6x3.0 | 119 |
|  | T3BL | Silver | H:0.35mm | 3.7x3.7 | 120 |
|  | T3C NEW | Silver | H:0.60mm | 3.0x2.0 | 121 |
|  | T4BJ | Silver | H:0.55mm | 4.8x4.8 | 122 |
|  | TJ-4 | Silver | H:0.55 mm | 4.4x4.4 | 123 |
|  | T()E-5 | Gold / Silver | H:0.8 mm / H:1.5mm | 5.2x5.2 | 124 |
|  | T6H | Gold / Silver | Through Hole, Right Angle, SMT | 7.4x7.4 / 8.0x8.0 | 126 |
|  | 1188 | Silver | Side Push | 3.5x7.0 | 128 |
|  | TA(C)(2)-3 | Silver | Side Push | 3.95x7.3 / 4.65x7.0 | 130 |
|  | TAF | Silver | Side Push | 3.3x4.5 | 133 |
|  | MTA2 | Silver | Side Push Sealed | 1.9x4.5 | 134 |
|  | TCD NEW | Silver | PCB Sealed Type Side Push | 2.3x4.5 | 135 |
|  | TCE | Silver | Sealed Side Push | 1.65x3.8 | 136 |

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TACT SWITCH

| | Series | Contact Type | Features | Dimensions(mm) | Page |
|---|----------------|---------------|----------------------|----------------|------|
|  | TCF | Silver | Side Push Mid-mount | 2.9x4.5 | 137 |
|  | TCH NEW | Silver | Right Angle | 4.5x2.2 | 138 |
|  | LTL-6 | Silver | Long Travel | 6.2x6.2 | 139 |
|  | DTS-3 | Silver | Through Hole & SMT | 3.5x6.0 | 140 |
|  | TAE | Gold / Silver | Thinner (H:2.5mm) | 3.8x6.0 | 142 |
|  | T(M)(J)G-325 | Silver | Thinner (H:2.5mm) | 3.7x6.0 | 143 |
|  | IPT | Gold / Silver | Side / Vertical Push | 2.8x3.8 | 144 |
|  | MPT | Silver | Side / Vertical Push | 2.9x3.9 | 145 |
|  | PT | Silver | Side / Vertical Push | 3.5x4.7 | 146 |
|  | TBF | Silver | Side / Vertical Push | 2.9x3.5 | 148 |
|  | TBE | Silver | Vertical Push | 2.7x3.0 | 150 |

SLIDE SWITCH







| | Series | Contact Type | Poles-Positions | Stroke | Page |
|---|------------|---------------|-----------------|-------------|------|
|  | LSS | Silver | 1-2, 2-2 | 2.0mm | 151 |
|  | SD12 | Gold | 1-3 | 1.5mm | 154 |
|  | SS3 | Gold | 1-2 | 2.0mm | 155 |
|  | SS4 | Gold | 1-3 | 2.0mm | 157 |
|  | MSS(3)(4) | Gold | 1-2, 1-3 | 1.5mm | 159 |
|  | MSS(6)(14) | Gold | 2-2, 1-4 | 1.5mm | 160 |
|  | SC12P | Silver | 1-2 | 2.5mm | 161 |
|  | SSS | Gold / Silver | 1-2 | 2.7mm | 162 |
|  | NSS | Gold / Silver | 1-3 | 2.0 / 4.0mm | 163 |
|  | S2S | Gold / Silver | 1-2, 1-3 | 1.5mm | 165 |

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DETECTOR SWITCH

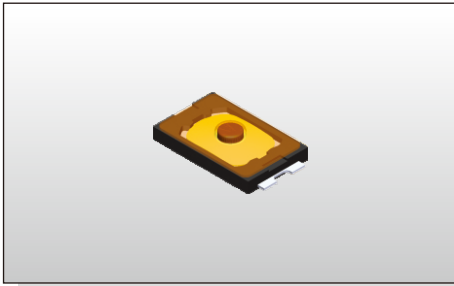
| | Series | Contact Type | Features | Operation Direction | Page |
|---|----------------|---------------|-----------------------------|---------------------|------|
|  | ELH | Silver | 3.3x3.5mm | Horizontal | 166 |
|  | DTE | Silver | 4.15x5mm | Horizontal | 167 |
|  | FTE | Gold / Silver | 4.0x5.55mm | Horizontal | 168 |
|  | HTE NEW | Silver | 5mm | Horizontal | 170 |
|  | TE-MR | Silver | 4.7x6mm | Horizontal | 171 |
|  | TE | Silver | 3.9x6.5mm (H: 8.4 / 10.7mm) | Vertical | 173 |
|  | ATE | Silver | 4.5x4.7mm (H:3.8 / 5.3mm) | Vertical | 175 |
|  | BTE | Silver | 2.8x3.5mm | Vertical | 176 |
|  | CTE | Silver | 2.98x3.5mm | Vertical | 177 |
|  | TU | Silver | 3.6x4.2mm | Vertical | 178 |

MULTI FUNCTION SWITCH

| | Series | Contact Type | Features | Dimensions(mm) | Page |
|---|----------|--------------|-----------------------------|----------------|------|
|  | M2D | Silver | Double Action / H:0.6mm | 4.1x4.3 | 179 |
|  | M2P | Silver | Double Action & Lever | 7.0x7.0 | 180 |
|  | PL3 | Silver | Push & Lever | 11.8x11.8 | 181 |
|  | PL | Silver | Push & Lever | 11.3x9.3 | 183 |
|  | MT(4)(5) | Silver | 4-Direction (& Center Push) | 7.7x7.4 | 187 |
|  | SRM | Silver | 8-Direction | 11x11.5 | 189 |
|  | TT5 | Silver | 5-Direction | 9.3x9.3 | 190 |

DEVELOPING ITEMS

T1B Series / J Terminal SMT Type (H=0.55mm)



FEATURES

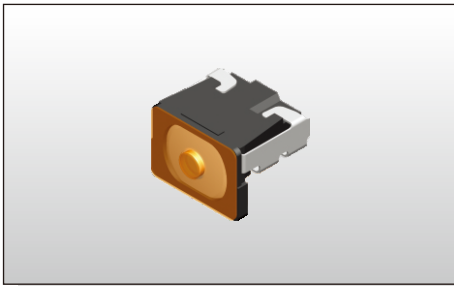
- ※ Compact-size 2.6*1.6mm
- ※ Low profile with 0.55mm
- ※ Long operation cycles

APPLICATION

- ※ Smart phone
- ※ Digital camera, Medical
- ※ Portable electronic device
- ※ 3C products (3C =Computer · Communication and Consumer Electronics)



T1C Series / Side Push Type Mid-mount Switch



FEATURES

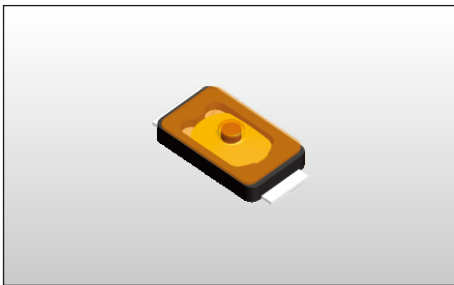
- ※ Miniature 4.5*2.2mm
- ※ Side push mid-mount type
- ※ 300,000 operation life cycles
- ※ Better soldering peeling strength

APPLICATION

- ※ Smart phone
- ※ Digital camera, Medical
- ※ Portable electronic device
- ※ 3C products (3C =Computer · Communication and Consumer Electronics)



T1D Series / J Terminal SMT Type (H=0.55mm)



FEATURES

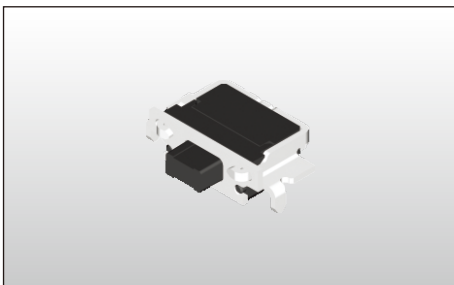
- ※ Compact-size 2.0*1.2mm
- ※ Low profile with 0.55mm
- ※ Long operation cycles

APPLICATION

- ※ Smart phone
- ※ Digital camera, Medical
- ※ Portable electronic device
- ※ 3C products (3C =Computer · Communication and Consumer Electronics)



TCJ Series / Side Push Type (H=0.85mm)



FEATURES

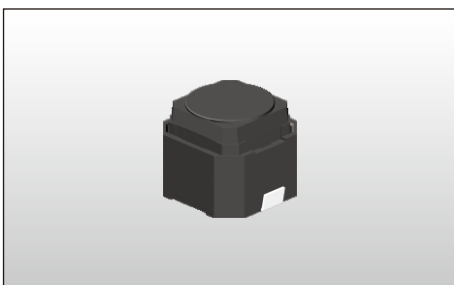
- ※ Better soldering peeling strength
- ※ 200,000 operation life cycles
- ※ Waterproof

APPLICATION

- ※ Smart phone
- ※ Portable personal audio
- ※ 3C products (3C =Computer · Communication and Consumer Electronics)



T6L Series / Long Travel SMT Type Tactile Switch (H=5.0mm)



FEATURES

- ※ Miniature 5.6*6.0mm
- ※ Long Travel type
- ※ 100,000 operation life cycles

APPLICATION

- ※ Automotive
- ※ Instrumentation
- ※ Audio

APPLICATION

Smart Wearable



Power/Camera Button/Volume Button

Tact Switch



Double Action Type Tact Switch:



Function Button

Tact Switch



Mute Button

Slide Switch:



Cloud Devices



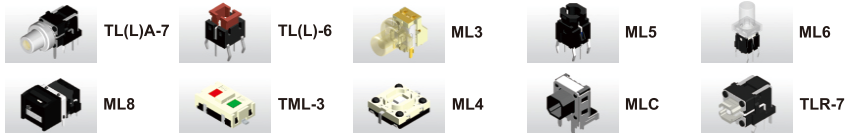
Function Setup Key

Dip Switch:



Power Key

Illuminated Switch:



Tact Switch:



Rotary Switch:



APPLICATION

Automobile Industry



Blue Tooth Headset

Tact Switch:



Illuminated Switch:



GPS

Slide Switch:



Push Lever Switch:



Tact Switch:



Audio Equipment

Tact Switch:



Illuminated Switch:

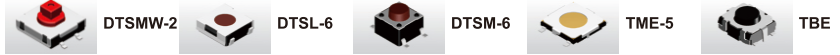


4-directional Switch



Steering Wheel

Tact Switch:



IT Industry



Remote Controller

Tact Switch:



Dip Switch:



Slide Switch:



Push Lever Switch:



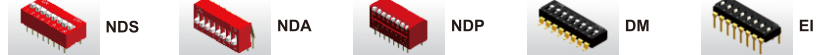
Walkie-talkie

Tact Switch:



Mother Board/Modem/Nettop

Dip Switch:



Illuminated Switch:



LCD Panel

Tact Switch:



APPLICATION

3C Industry



Digital Camera

Double Action Type Tact Switch:



Slide Switch



4-directional Switch:



Detector Switch:



Tact Switch:



Tablet

Tact Switch:



Slide Switch

Notebook

Detector Switch:



Illuminated Switch:



Tact Switch:



White Goods



Induction Cooker

Tact Switch:



Coffee Machine

Illuminated Switch:



Tact Switch:



Upright Oven

Tact Switch:



Washing Machine

Washable Tact Switch:



Illuminated Switch:



Vacuum

Tact Switch:



APPLICATION

Medical Devices



Fever Thermometer

Tact Switch:



DTSM-3



TMG-325



TAE



TBE



TBF

Illuminated Switch:



TLL-6



TML-3



ML4

Blood Pressure Gauge

Tact Switch:



TME-5



DTSL-6



DTS(M)-6



DTS(M)-2

Digital Thermometer

Tact Switch:



TME-5



TMG-325



DTS(M)-3



TAE



TBE

Dip Switch:



EI

Electric Toothbrush

Tact Switch:



DTS(M)-6

Detector Switch:



CTE

Automatic Home Appliances



Security System

Detector Switch:



TE-MR

Rotary Switch:



RM



R7



RJ



RB

Automatic Curtain

Dip Switch:



EM



NPI



EPI

Tact Switch:



DTS(M)-6

Slide Switch:



SC12P

Automatic Garage Door

Dip Switch:



EM



SIP

Tact Switch:



DTS(M)-3

APPLICATION

Smoker Detector / GAS Alarm

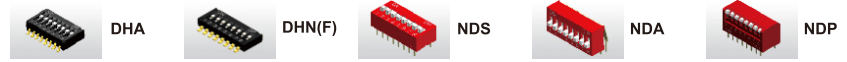


Smoker Detector

Tact Switch:



Dip Switch:



Rotary Switch:



GAS Alarm

Slide Switch:



Detector Switch:



Industrial Control Field



Tact Switch:



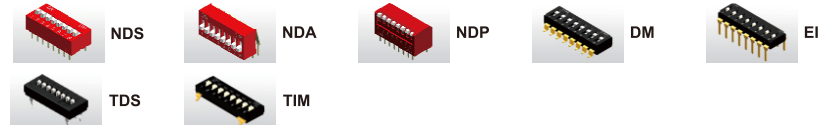
Slide Switch:



Rotary Switch:



Dip Switch:



Illuminated Switch:

