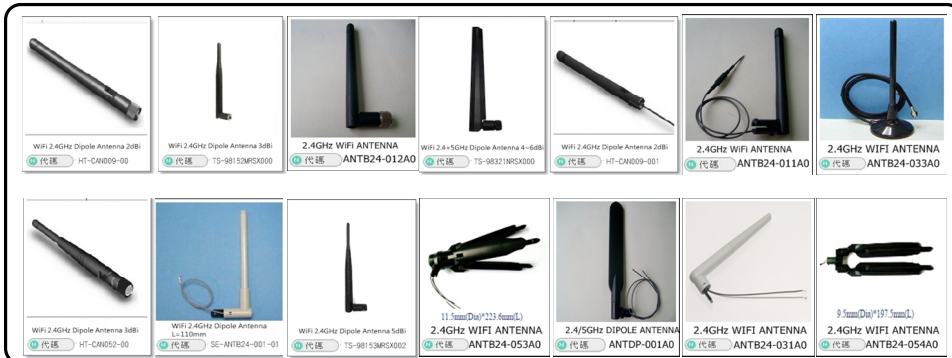




## EXTERNAL ANTENNA

### Wifi Antenna



### LTE Antenna



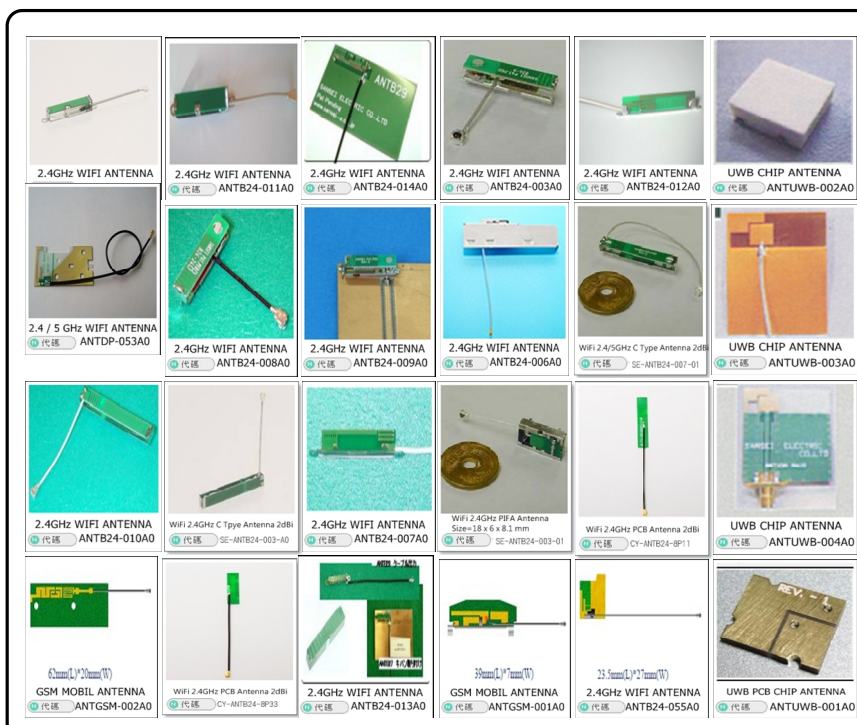
### DVB-T Antenna



### UHF Antenna



## EMBEDED ANTENNA



## OUTDOOR ANTENNA



東省電機股份有限公司

Tone Shine Electronic Industry Co.,Ltd

411 台灣省台中市太平區中和街342巷1號

No.1, Ln. 342, Zhonghe St., Taiping Dist., Taichung City 411, Taiwan

TEL : 04-22783188 FAX : 04-22783186

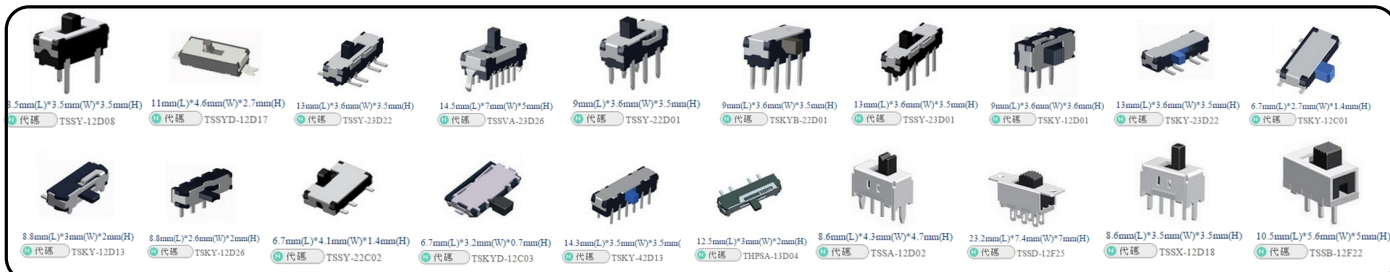
# SWITCH

東省電機股份有限公司

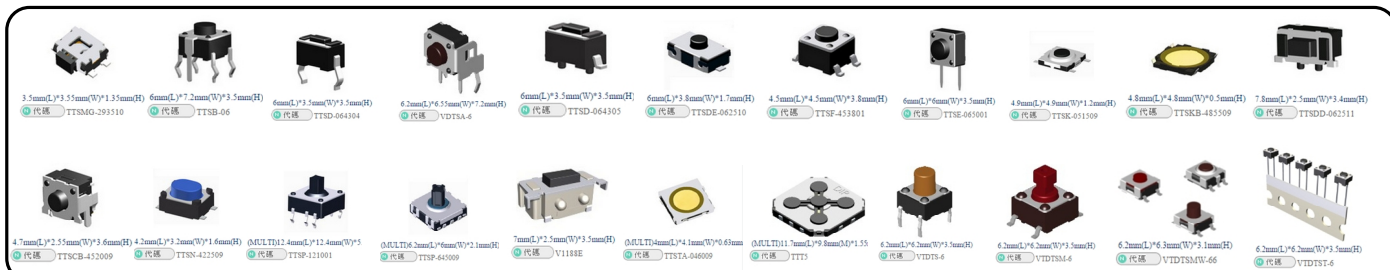
專業 服務 創新



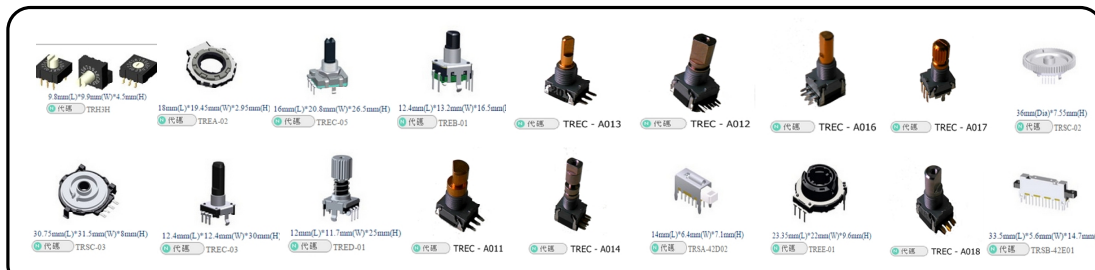
## Slide Switch



## Tact Switch



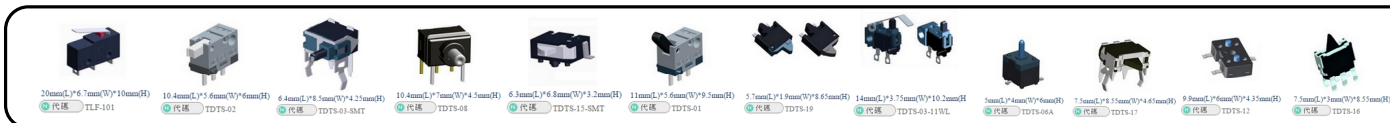
## Encode Switch



## Rotary Switch



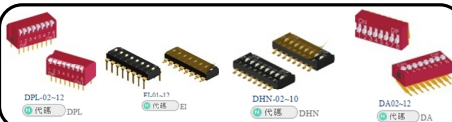
## Micro Switch



## Lever Switch



## Dip Switch



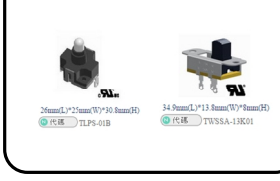
## AC Switch



## Leaf Switch



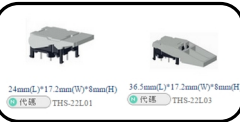
## Push Switch



## ACVL Switch



## Hook Switch



東省電機股份有限公司  
 Tone Shine Electronic Industry Co.,Ltd  
 411 台灣省台中市太平區中和街342巷1號  
 No.1, Ln. 342, Zhonghe St., Taiping Dist., Taichung City 411, Taiwan  
 TEL : 04-22783188 FAX : 04-22783186

# CABLE & RF CONNECTOR

**SPEED  
PERFORMANCE  
RELIABLE**

**東省電機股份有限公司**



## APPLICATIONS

Portable telephones, cellular phones, wireless communications devices, electronic measuring equipment, GPS, etc

### HRS Cable Series

#### H.FL



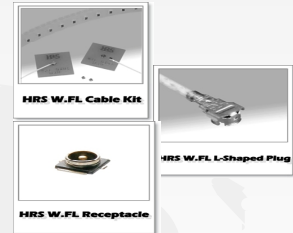
#### E.FL



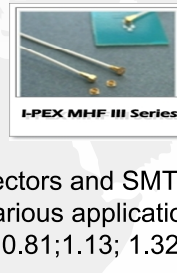
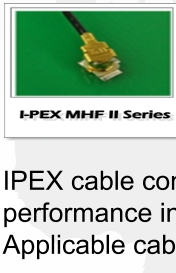
#### U.FL



#### W.FL



### I-pex MHF Cable Series

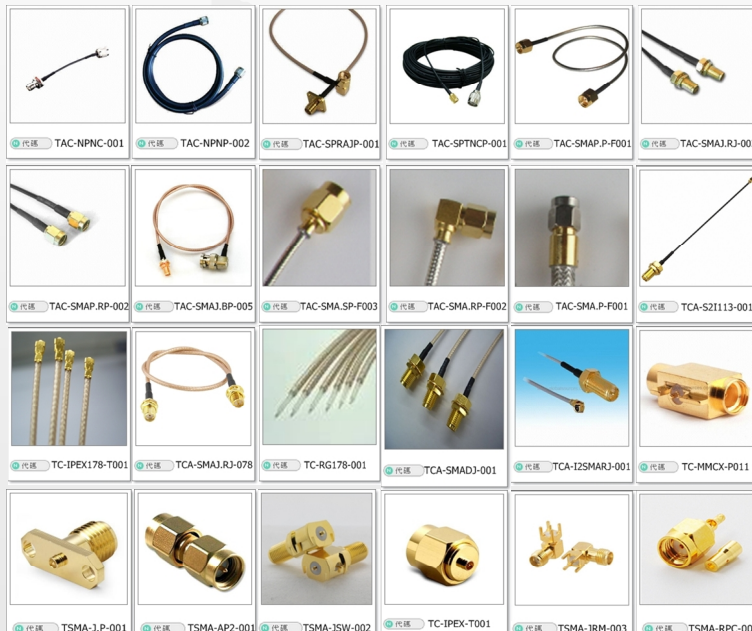


IPEX cable connectors and SMT connector provide good working performance in various application of Wireless LAN.  
Applicable cable: 0.81; 1.13; 1.32; 1.37mm and RG178 RF coaxial cable.

### I-PLEX Product MHF Series Overview

| MHF type<br>Plating<br>(Center/<br>Ground) | MHF Receptacle                                 |                              |               | MHF III Receptacle             |                          | MHF-A Receptacle         |                              | MHF 4 Receptacle |                |     |
|--------------------------------------------|------------------------------------------------|------------------------------|---------------|--------------------------------|--------------------------|--------------------------|------------------------------|------------------|----------------|-----|
|                                            | MHF Plug                                       | MHF II Plug                  |               | MHF III Plug                   |                          | MHF-A13 Plug             |                              | MHF 4 Plug       | MHF 4 SMT Plug |     |
| Mating Height                              | 2.5mm (MAX.)                                   | 2.1mm (MAX.)                 |               | 1.6mm (MAX.)                   |                          | 1.45mm (MAX.)            |                              | 1.2mm (MAX.)     | 1.2mm (MAX.)   |     |
| Gold / Gold                                | 20279-001E-01 (3pads)<br>20441-001E-01 (4pads) | 20278-12R-~<br>20351-12R-37  | 20311-011R-08 | 20369-001E<br>20367-001R       | 20429-001E<br>20428-001R | 20407-001E<br>20407-001R | 20448-001R-081<br>20462-001E |                  |                |     |
| Gold / Silver                              | 20314-001E-01 (3pads)                          | 20308-12R-13<br>20308-12R-32 | N/A           | 20312-011R-08<br>20312-011R-10 | N/A                      | N/A                      | N/A                          | N/A              | N/A            | N/A |

### Adapter Cable & RF Connector



### HRS Connector Tooling

| HRS No.         | Part No.         | RoHS |
|-----------------|------------------|------|
| CL331-0551-7    | H.FL-LP-N        | Ⓢ    |
| CL331-0441-9    | E.FL-LP-N        | Ⓢ    |
| CL331-0494-5    | U.FL-LP-N-2      | Ⓢ    |
| CL331-0493-2    | H.FL-LP(V)-N-2   | Ⓢ    |
| CL331-0492-0    | W.FL-LP-N        | Ⓢ    |
| HRS No.         | Part No.         | RoHS |
| CL331-0232-4-40 | HRMP-H.FL J(40)  | Ⓢ    |
| CL331-0279-8-40 | HRMP-E.FL J(40)  | Ⓢ    |
| CL311-0300-2    | HRMP-U.FL J(40)  | Ⓢ    |
| CL311-0367-3    | HRMP-W.FL J(40)  | Ⓢ    |
| HRS No.         | Part No.         | RoHS |
| CL311-0264-0-40 | HRMJ-H.FLP-3(40) | Ⓢ    |
| CL311-0278-5-40 | HRMJ-E.FLP-3(40) | Ⓢ    |
| CL311-0301-5    | HRMJ-U.FLP-3(40) | Ⓢ    |
| CL311-0368-6    | HRMJ-W.FLP-3(40) | Ⓢ    |

**東省電機股份有限公司**

Tone Shine Electronic Industry Co., Ltd

411 台灣省台中市太平區中和街342巷1號

No.1, Ln. 342, Zhonghe St., Taiping Dist., Taichung City 411, Taiwan

TEL : 04-22783188 FAX : 04-22783186