

## ◆ Product Description

Micable has developed one programmable phase shifter MPS060180-E covering 6-18GHz, and user can control the phase shift via USB/Ethernet with 1 degree step, 0-360 degree range, absolute phase accuracy  $\pm 1^\circ$  Max over whole band. User can control this unit through the GUI user interface program provided by Micable, or control this unit by programming through the DLL dynamic link library file. Custom designs are available with frequency range over 0.5-40GHz.

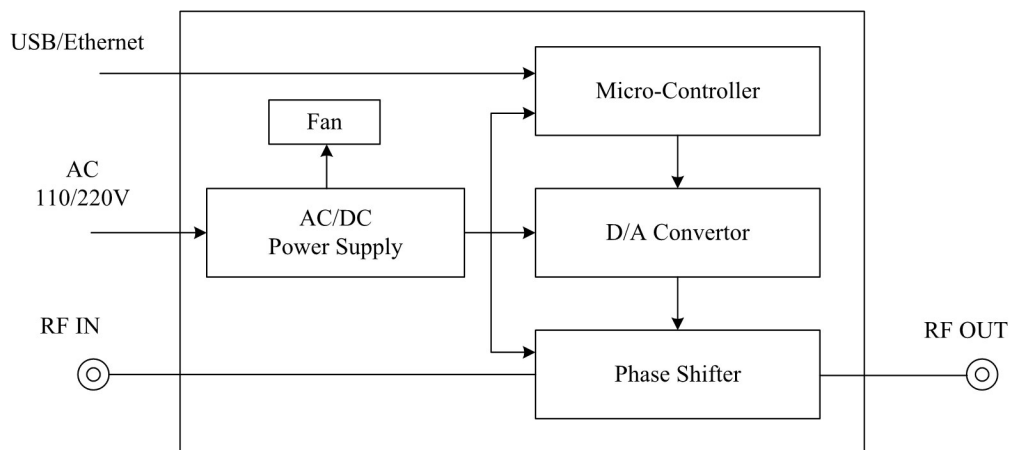
## ◆ Key Features

- Wide frequency range, 0.5-40GHz option
- Fine phase resolution, down to  $1^\circ$
- High absolute phase accuracy,  $\pm 1^\circ$  Max,  $\pm 0.5^\circ$  Typ.
- USB control, Easy to install and use
- User friendly Graphical User Interface for any Windows® 32 or 64 bit computer

## ◆ Specifications

| Electrical Specifications at 23±3℃                |                                    |      |           |         |       |
|---------------------------------------------------|------------------------------------|------|-----------|---------|-------|
| Parameter                                         | Conditions                         | Min. | Typ.      | Max.    | Units |
| Phase Shift Range                                 | 6-18GHz                            | 0    | -         | 360     | Deg   |
| Phase Shift step                                  | 6-18GHz                            | 1    | -         | -       | Deg   |
| Phase Shift accuracy                              | any single frequency               | -    | $\pm 0.5$ | $\pm 1$ | Deg   |
| Insertion Loss                                    | 6-18GHz                            | -    | -         | 13      | dB    |
| VSWR                                              | 6-18GHz                            | -    | -         | 2.1     | :1    |
| Input Operation Power<br>(RF in and RF out ports) | Without performace degradation     | -    | -         | 20      | dBm   |
| Survival input power                              | No damage                          | -    | -         | 30      | dBm   |
| Min Dwell Time                                    | High speed mode                    | -    | 5         |         | mSec  |
| Supply Voltage                                    | AC                                 | 100  | -         | 240     | V     |
| Control Mode                                      | USB/Ethernet                       |      |           |         |       |
| RF IN/OUT Connector                               | SMA-F                              |      |           |         |       |
| Size                                              | 227x114x50 mm (Without base plate) |      |           |         |       |
| Operating Temperature                             | 0°C to 70°C                        |      |           |         |       |
| Storage Temperature                               | -20°C to 80°C                      |      |           |         |       |

## ◆ Schematic Diagram



## ◆ Outline Drawing

