



## **Specification**

• Clock generator 2 MHz

# **Onboard signal**

- Sine wave
- Frequency : 1 ~ 10 KHz
- Amplitude : 0 ~ 2 Vpp

# Noise generator

## Pseudo random noise source

- Number of bits : 32-bit
- $0 \sim 1V$ • Output amplitude :
- 2 MHz Noise bandwidth :

### Signal attenuator and adder

• Adjustable from 0 to the maximum of input value signal + noise adder stage Low pass filter

- 4th Order butterworth filter
- Cut-off frequency : 3.4 KHz

### Power meter and display

- Input signal amplitude : 0 ~ 2 Vpp
- Timer : 1 ~ 15 seconds
- Display : 2 digits seven segment

# Switch faults

4 switch faults are provided on board to study different effects on circuit

### **Power supply**

• GND, +5V, +12V, -12V

# **Experiments**

- To observe the effect of noise on various analog systems
- To calculate signal to noise ratio
- To calculate noise figure
- To calculate noise power and noise power spectral density
- To study the effects of low pass filter on noisy signal
- To study the effects of switch faults

Note: Specifications are subject to change.

- C **Tesca Technologies Pvt. Ltd.** IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
- Hear Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,

Tel: +91-9829132777; Email: info@tesca.in, tesca.technologies@gmail.com Website: www.tescaglobal.com

