

# COMPACT DFD RECEIVER



## GENERAL DESCRIPTION

Compact DFD Receiver receives radar signals across 2 GHz to 18 GHz spectrum and instantly generates digital outputs using LVDS interface. These outputs are 14 bit resolutioned frequency, 1-bit data valid (bad data) and also customised solutions can be provided.

The DFD Receiver can use external and internal clock through which the LVDS signals are generated.

Systems can be enhanced with switch multiplexer filters for eliminating undesired signals. These systems can also be stacked to be used in multi channel applications for DF capability.

## KEY SPECIFICATIONS

- Ultra Compact
- High Precision & High Resolution
- PDW Generation (Optional)
- MIL-STD-810G Compatible
- User Friendly Interface
- Excellent SwaP (Size/Weight/Power)
- Ultra Fast Response

## BENEFITS

- Low SWaP
- Ideal for miniature electronic support applications
- Suitable for deployment in small unmanned platforms

## COMPACT DFD RECEIVER

**Weight (g)**

1060

**Dimensions (cm)**

15.2 x 14.7 x 3.0

**Frequency Band**

2 - 18 GHz

**Instantaneous Bandwidth**

16 GHz

**Frequency Sensitivity**

1 MHz

**Frequency Precision**

≤ 3 MHz RMS

**Dynamic Range**

65 dB (-55, +10 dBm)

**Min. Pulse Width**

50 ns

**Max. Pulse Width**

CW

**PW Precision**

10 ns

**Clock Capabilities**

External clock (50 MHz , 100 MHz)

Customised Internal Clock

**Operating Power**

600 mA @ 12 V DC

**Operating Temperature**

-40 °C To +80 °C

**RF Connector**

SMA Female

**Data Connector**

Micro-D 15 Pin Female

Micro-D 51 Pin Female

