

# FI-TR-0-8000-1

DC~8GHz

## Features:

- \* High Dynamic Range
- \* Flexible

## Applications:

- \* Wireless
- \* Transceiver
- \* Laboratory Test
- \* Radar

## Description

This is a multi-channel transceiver system consisting of one receiving channel and two transmitting channels. Figure 1 is the topology diagram. The local oscillators of the three mixers are generated by a single frequency source, then filtered and divided into three LO signals by a 3 way power divider. IF IN2 is a port of intermediate signal (IF2). IF2 passes through a filter and up converted by a mixer to radio frequency signal (RF2) which is filtered and go through an isolator to RF OUT2 port. IF IN1 is a port of intermediate signal (IF1). IF1 passes through a filter and up converted by a mixer to radio frequency signal (RF1) which is amplified, filtered and go through an isolator to RF OUT1 port. RF IN is an input port of RF signal. The RF signal is attenuated by a rotary stepped attenuator, down converted by a mixer to intermediate frequency (IF), filtered, and transmitted to IF port (IF OUT). There is a built-in circulator which can combine the port of RF OUT1 and RF IN into one port (EUT) by two jumpers outside.

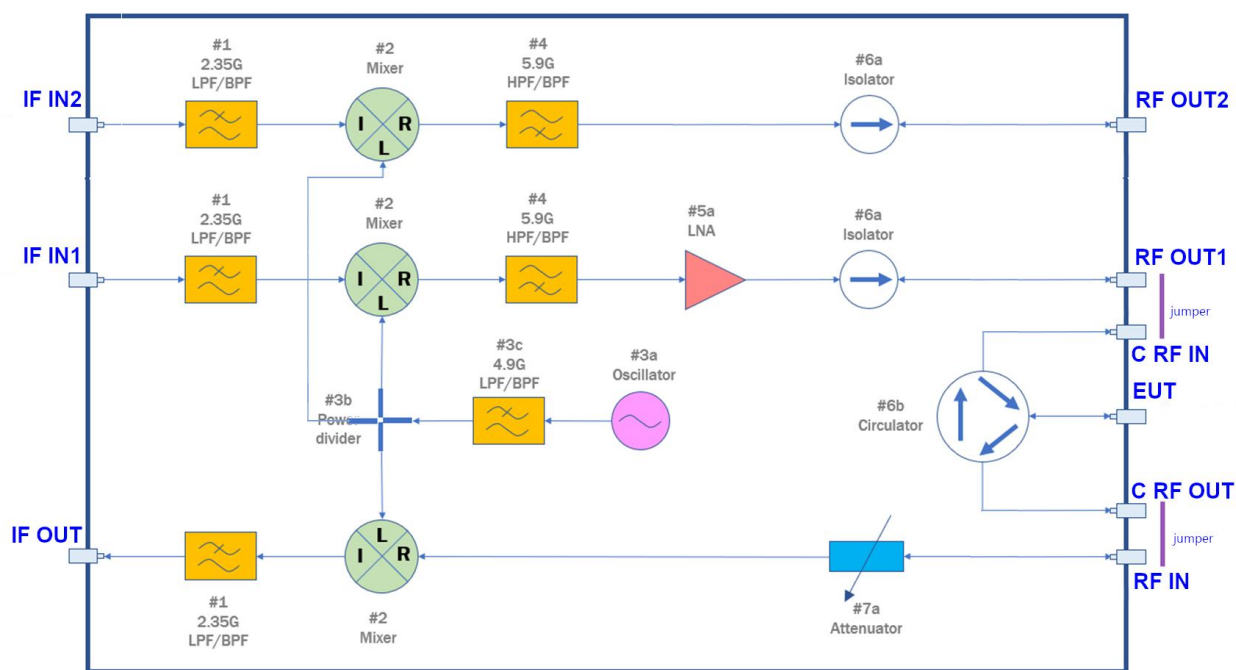


Figure 1

## Electrical

Frequency: DC~8GHz

## Mechanical

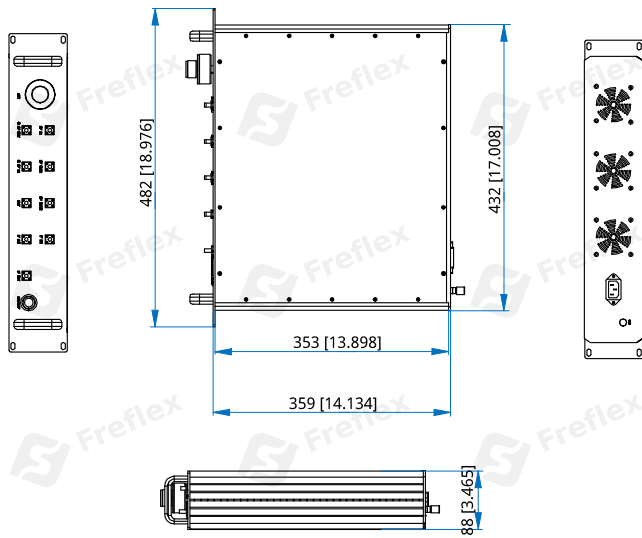
Size: 359\*482\*88mm  
14.134\*18.976\*3.465in

## How To Order

FI-TR-0-8000-1

Customization is available upon request.

## Outline Drawings



Unit: mm [in]

Tolerance:  $\pm 0.5\text{mm}$  [ $\pm 0.02\text{in}$ ]