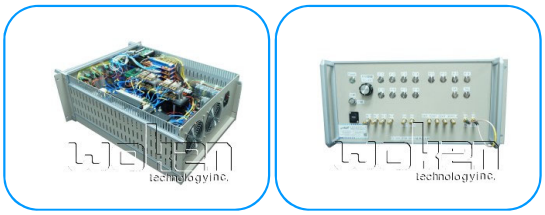
Rev:A

0169A05080001W

RF Switch Box

0.5-8GHz Multiple Port NR(5G) RF Switch Mode Filters Box



Features

- High Repeatability
- Low VSWR

Electrical Specifications

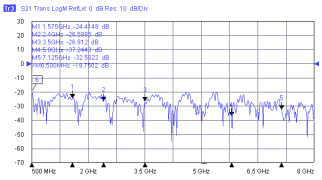
Frequency	0.5-8GHz
VSWR	1.8:1(Typ.) 1.9:1(Max.)
Insertion Loss	Input (P1~4)) to output (P1-4) :22dB Port to SA:25dB Port to SG:13dB
Isolation(Ports)	Input Port:20dB(Typ.)
RF Input Power	2W CW
Impedance	50Ohm
Operating Life	100,000 Cycles (Min.)
Switching Time	15ms
Coaxial Connection	SMA Female(4 input/4 out/SA/SG/ 2 port User define.)
Control Interface:	USB2.0(Programmable)
Operating Voltage	100-240 VAC@47-63Hz
Filter Frequency	5G New Radio N1(Up): Notch Filter:1920-1980MHz 5G New Radio N3(Up): Notch Filter:1710-1785MHz 5G New Radio N7(Up): Notch Filter:2500-2570MHz 5G New Radio N28(Up): Notch Filter:703-748MHz 5G New Radio N40: Notch Filter:2300-2400MHz 5G New Radio N41: Notch Filter:2496-2690MHz 5G New Radio N78: Notch Filter:3300-3800MHz

Environmental

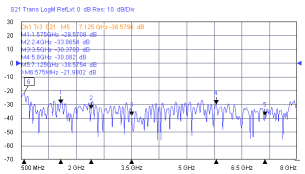
Operating Temperature	5℃~50℃

Test Report

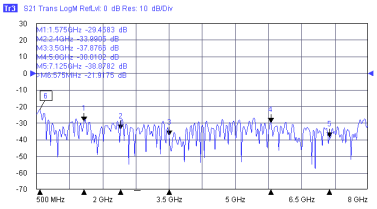
Isolation(P1-P2)



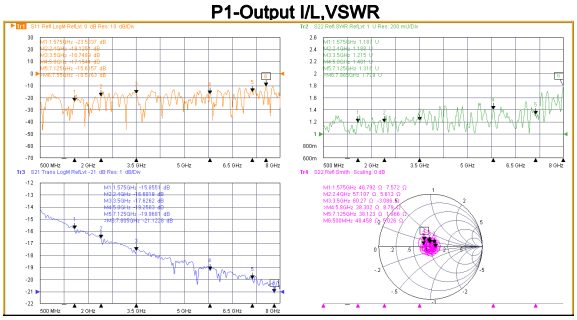
Isolation(P1-P3)



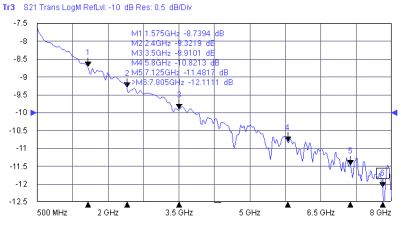
Isolation(P1-P4)



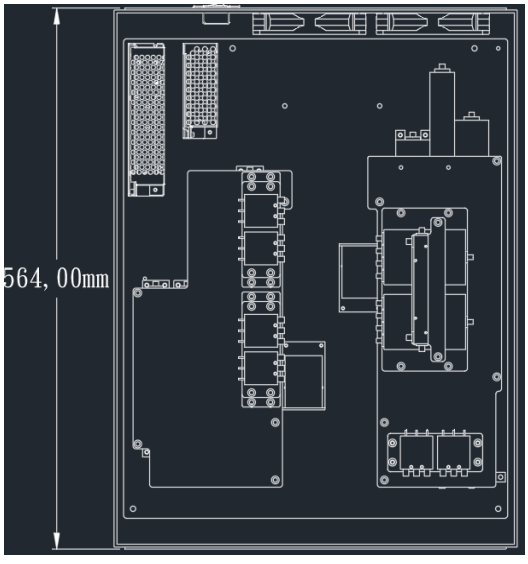
P1-Output I/L,VSWR

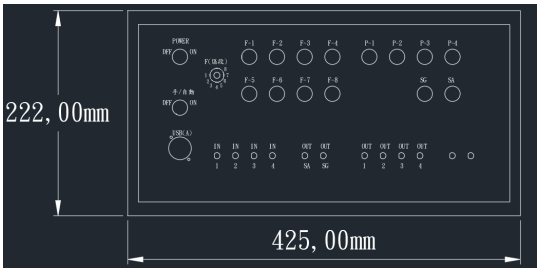


Port to SG I/L



Outling Drawing (Unit:mm)

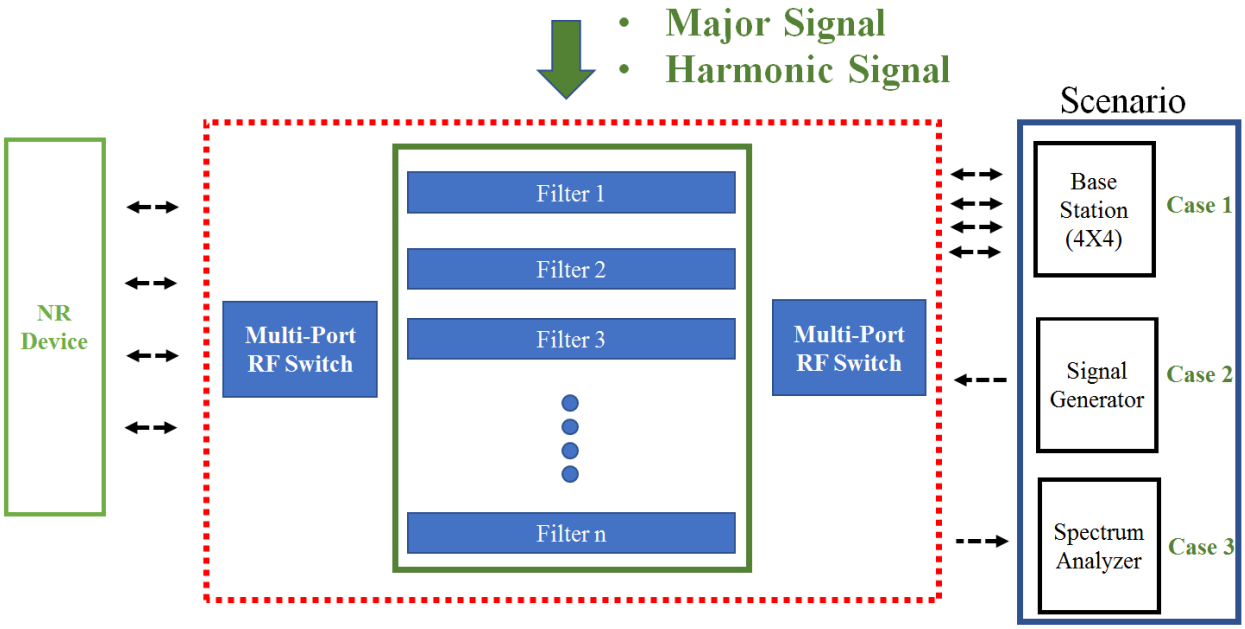




All Specification Changed Without Notification.

Application

Switch Box Concept



Switch Box Scenario

5G NR Test Application and 4x4 MIMO functional, it can test RF signals (Major or Harmonic), based on subsystems, and/or full base station equipment at every 5G band.

Scenario 1 ：DUT Signals for LTE/FDD Conformance Testing verification

Base on 5G NR Base Station Receiver Tests. Verification of 3GPP defines the Radio Frequency (RF) conformance testing.

Scenario 2： DUT RF for Receiver characteristics verification

The reference sensitivity power level REFSENS is the minimum mean power applied to each one of the UE antenna ports for all UE categories.

Scenario 3 ： DUT RF for Transmitter characteristics verification

Case 1: Confirmation with device Signal integrity.

Case 2: Confirmation with device Harmonic Pattern Signals.