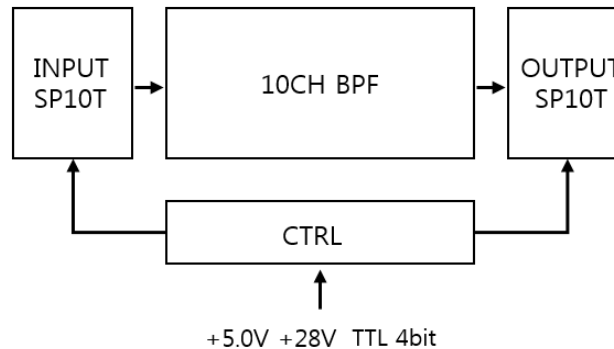


Features

- Military Tactical Radio
- 100 W Max. Input Power
- Ultra-low 2nd Harmonic Characteristics: 65 dBc typical
- Very low insertion loss: 2.5 dB typical



Functional Diagram



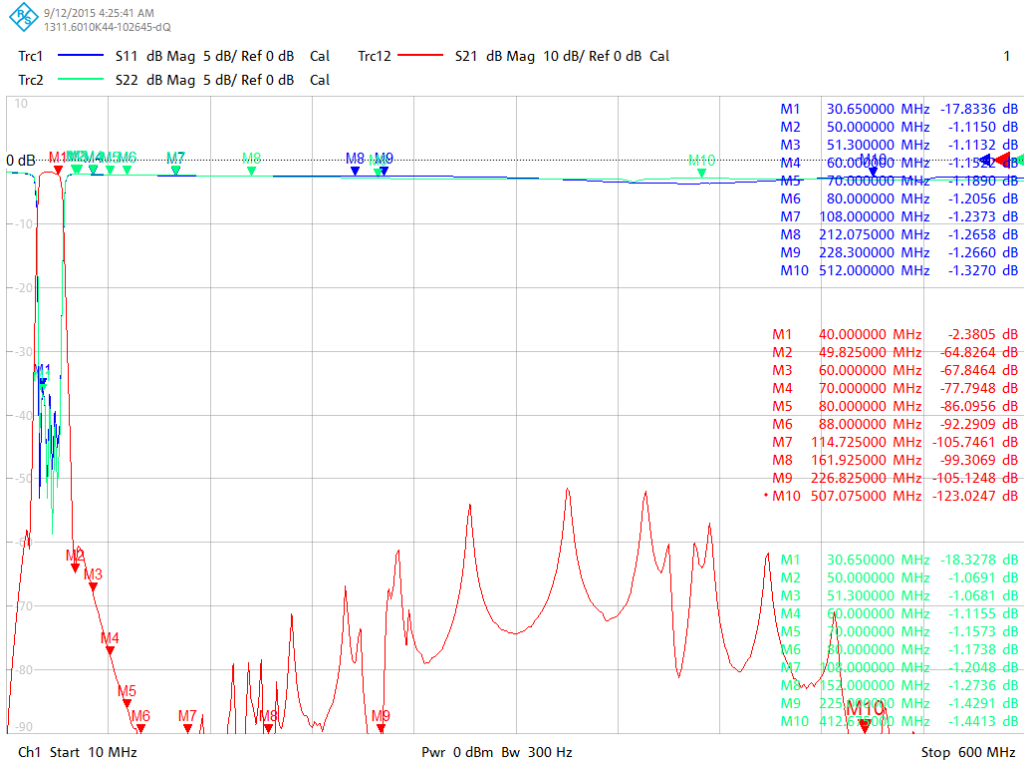
Description

Switch Filter Bank is an array of band pass filters that spans the entire frequency spectrum. 10 Channel Filter Bank ADFB 30/512-10CH is developed frequency band from 30 MHz to 512 MHz Insertion loss is around 2 dB to 3 dB max.

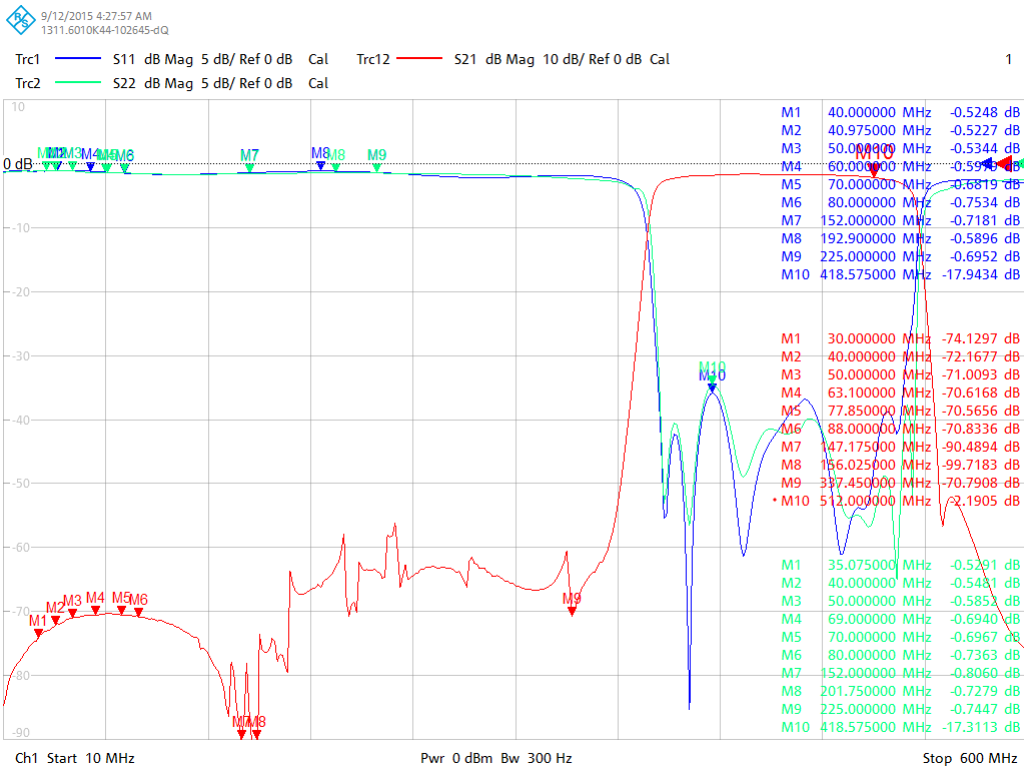
Electrical Specifications

Parameters	Specifications	Remarks
Frequency range	30 MHz ~ 512 MHz	Military Tactical Radio
No. of Channel	6 CH : 30 ~ 88 MHz 4 CH : 108 ~ 512 MHz	
Insertion Loss	2.5 dB Typ., 3.0 dB Max.	
Passband Ripple	Max. 1.0 dB	
Return Loss	Max. 1.5: 1	
Channel Rejection	50 dBc Min. @ desired channel rejection frequency band	
2 nd Harmonic Rejection	65 dBc Min. @ 2 nd Harmonic frequency	
Maximum Input Power	100 W CW	
Impedance	50 Ω	
Operating Temperature	-40 °C ~ +85 °C	

S-Parameter Characteristics

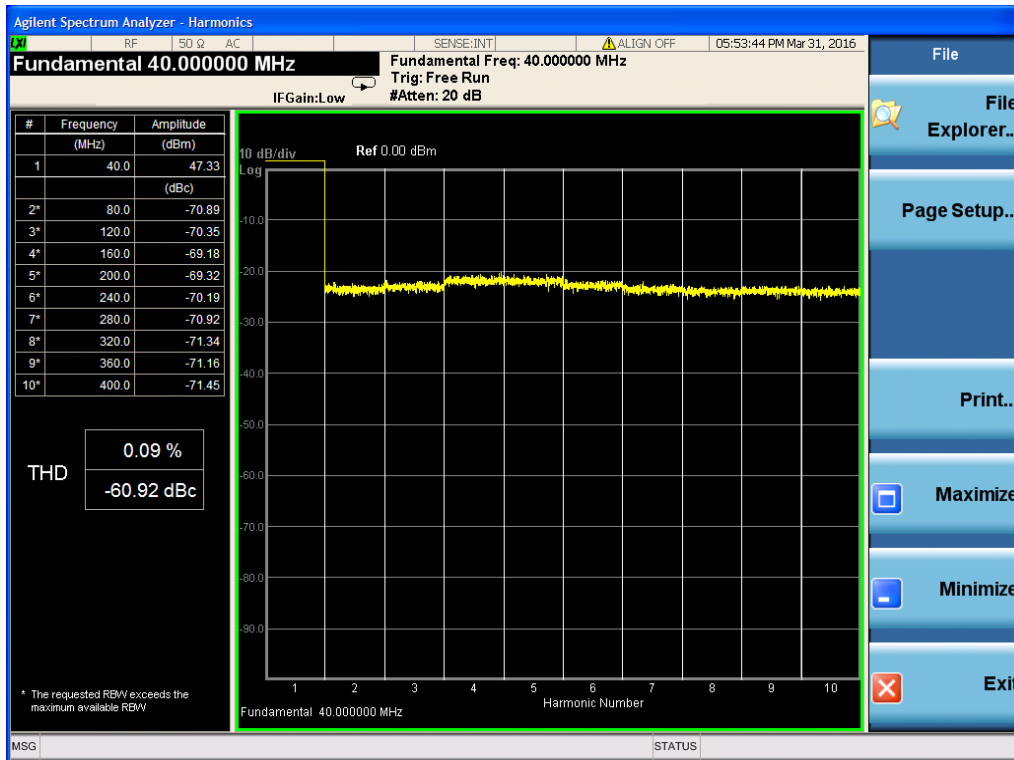


CH 1 Typical S Parameter Response (IL = 2.38 dB, RL = 17.8 dB)

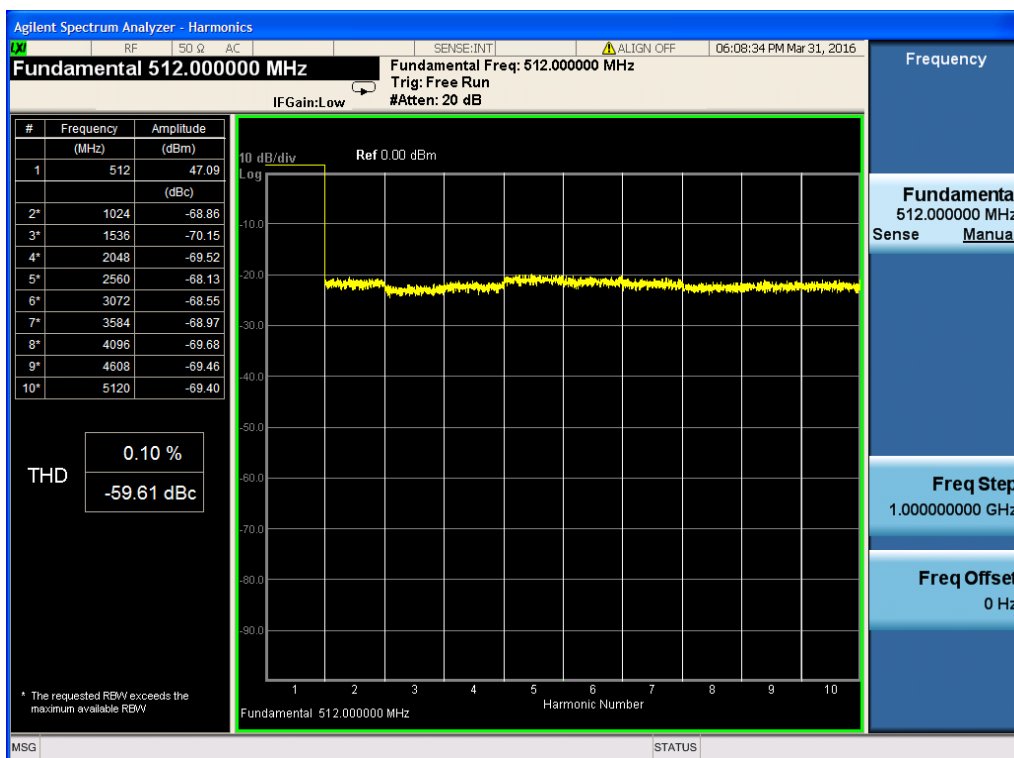


CH 10 Typical S Parameter Response (IL = 2.19 dB, RL = 17.9 dB)

2nd Harmonics

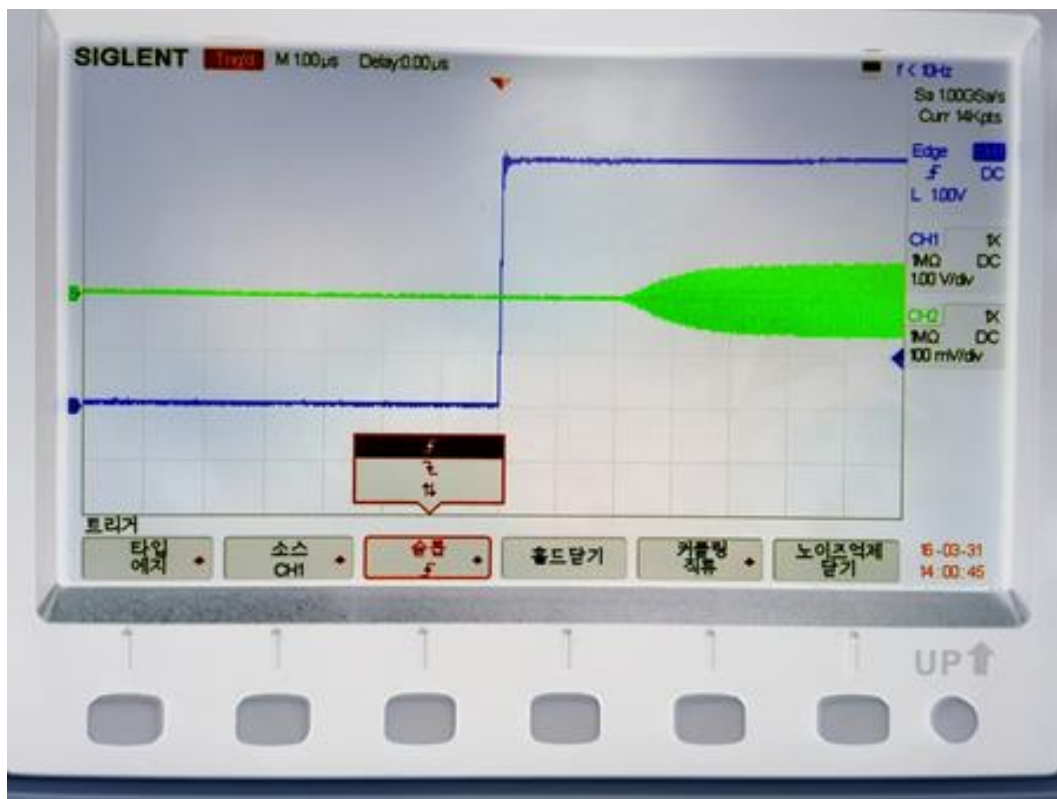


[Fundamental 40MHz, 2nd Harmonics 70.89dBc]

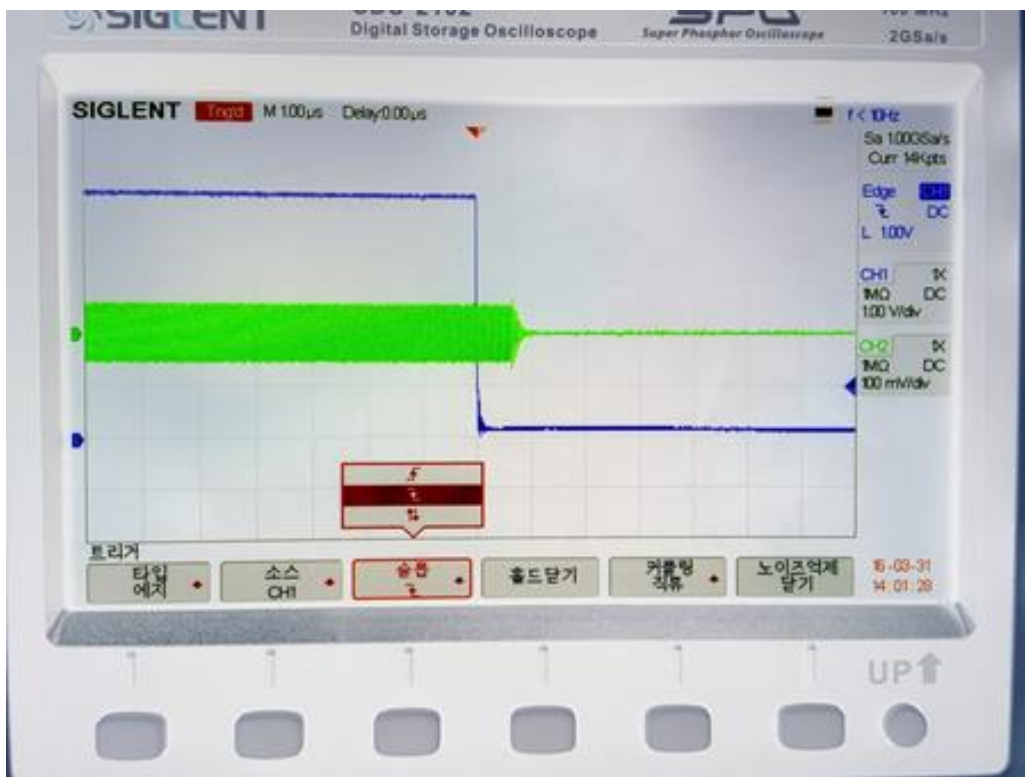


[Fundamental 512MHz, 2nd Harmonics 68.85dBc]

Switching Time



[Switching ON Time 4 us]



[Switching Off Time 1 us]