

RI 268

TUNABLE BAND REJECT FILTER

Digitally tunable between 600-8000 MHz

FEATURES

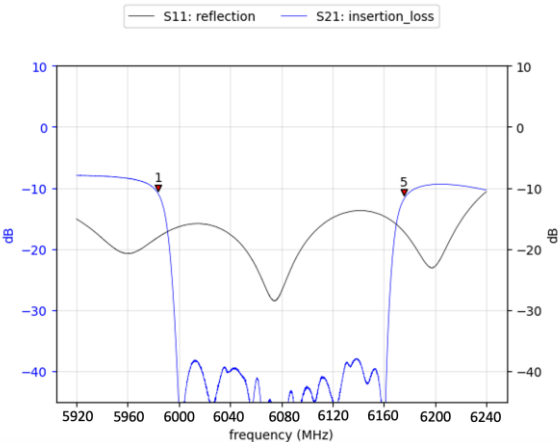
- Combined 5 & 160 MHz reject bandwidth
- Frequency tunable within 600-8000 MHz
- Filter characteristics can be selected in runtime
- Remote control via LAN
- Rack mountable

OVERVIEW

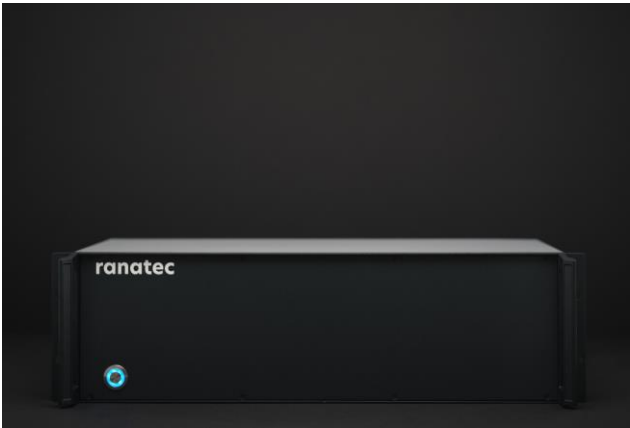
The RI 268 is a high-performance electronically tunable band reject filter. It is fully equipped to conform to all existing sub-6-GHz mobile bands and all sub-7.125-GHz WiFi channels. This is achieved by ingenious microwave design, digital signal processing and use of state-of-the-art components. A frequency extension option for conformance testing up to 40 GHz is available.

APPLICATION

- Conformance testing according to TS 136 521-1 (LTE) and TS 138 521-1 (5G NR)
- WiFi testing according to IEEE 802.11.
- Spurious emissions measurements
- Receiver blocking measurements
- Design verification of radio transmitters and receivers



Typical band reject performance



SPECIFICATION

Filter bandwidth [MHz]	Frequency bands for center freq. [MHz]	Measurement bands [MHz]	Filter slopes [MHz]
5/160	600-800	480-1520	3*/10
5/160	800-1000	680-1720	3*/10
5/160	1400-2050	1130-2320	3*/10
5/160	2050-2700	1780-2970	3*/10
5/160	3300-3750	2830-4220	3*/10
5/160	3750-4200	3280-3750	3*/10
5/160	4400-5000	4080-5320	3*/10
5/160	5000-5600	4680-5920	3*/10
5/160	5600-6200	5280-6520	3*/10
5/160	6200-6800	5880-7120	3*/10
5/160	6800-7400	6480-7720	3*/10
5/160	7400-8000	7080-8320	3*/10

*1.4 MHz slopes available upon requests

Input power range	+2-+28 dBm
Band reject bandwidth	160 MHz @-35dB
Band reject depth	35 dB
Frequency resolution	1 kHz
Frequency settling time	20 ms full band
Frequency accuracy	±2.5 ppm (internal ref)
RF input/output connector	SMA (F)

ORDERING

- RI 268
- Tunable Band Reject Filter
- RI 4278
- Frequency Extension Box 40 GHz