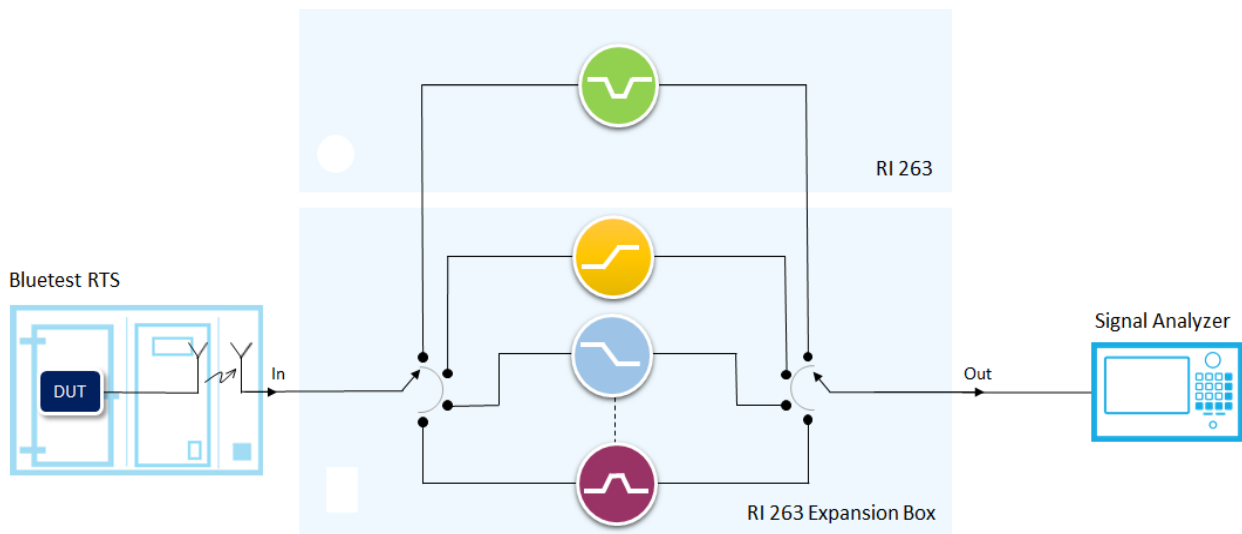


RI 263

TUNABLE BAND REJECT FILTER



High performance 600-6000 MHz Tunable Band Reject Filter for verification of cellular devices and base stations.

MEETING THE 5G CHALLENGES

Measuring low level spurious emission in the presence of a strong carrier can be quite a challenging task. The dynamic range of the signal analyzer often becomes a limiting factor preventing accurate verification according to the spurious emission requirement limits. The task becomes even more challenging with the introduction of 5G and the move of measurements from the conducted domain to the Over-the-Air (OTA) domain resulting in higher overall losses as well as a higher loss vs frequency dependency.

CARRIER ATTENUATION WHERE NEEDED

The RI263 is a high performance electronically tunable band reject (notch) filter that supports spurious emission measurements close to the carrier in all

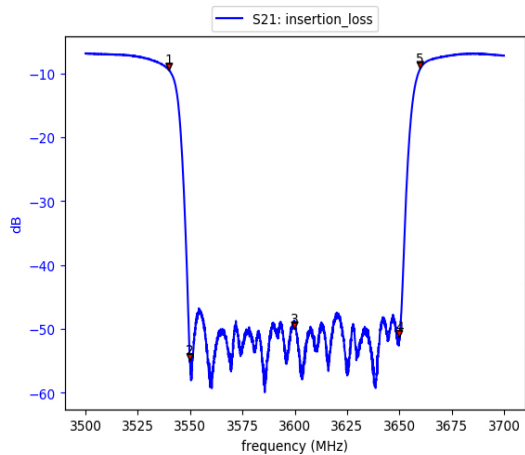
LTE and 5G frequency bands up to 6 GHz by rejecting the carrier frequency with at least 35 dB. The notch bandwidth is 100 MHz, other bandwidths can be supported upon request. Filter characteristics remain constant across the entire frequency range. This is achieved by ingenious microwave design, digital signal processing and the use of state-of-the-art components.



RI 263 is a wideband digitally tuned notch filter suitable for spurious emissions and blocking measurements.

EXPANDING THE USABILITY

An extension box with fixed high pass, low pass and band pass filters support measurements further away from the carrier, all the way up to 26.5 GHz. Depending on need, it can contain from two to a dozen different filters. The complete filter solution is remotely controlled via a LAN connection using SCPI commands.



Typical band reject performance

APPLICATIONS

- UE conformance testing according to TS 36.521-1 (LTE) and TS 38.521-1 (5G NR)
- Spurious emissions measurements on both base stations and devices
- UE receiver blocking measurements
- Design verification of radio transmitters and receivers

TECHNICAL SPECIFICATIONS

Input Power Range	+2 - +28 dBm ¹
Frequency Range	600 - 6000 MHz
Passband Range Extension Box	DC - 26 500 MHz
Notch Bandwidth @ -35dB	100 MHz ²
Notch Depth	35 dB ²
Steepness	10 MHz Slopes
Frequency Resolution	1 kHz
Input Power Range	10 MHz Slopes
Frequency Range	1 kHz
Frequency Settling Time	20 ms Full Band
Frequency Accuracy	25 ppm (Internal Ref)
Size	19", 3 HU
RF Input/Output Connectors	SMA (F)
Operating Temperature	15 to 35 °C
Storage Temperature	-40 to 70 °C
Relative Humidity	10 to 90 %

1) At PAPR = 0 dB (CW)

2) Other filter specifications available on request

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