

Comprehensive Stressed Receiver Sensitivity Test

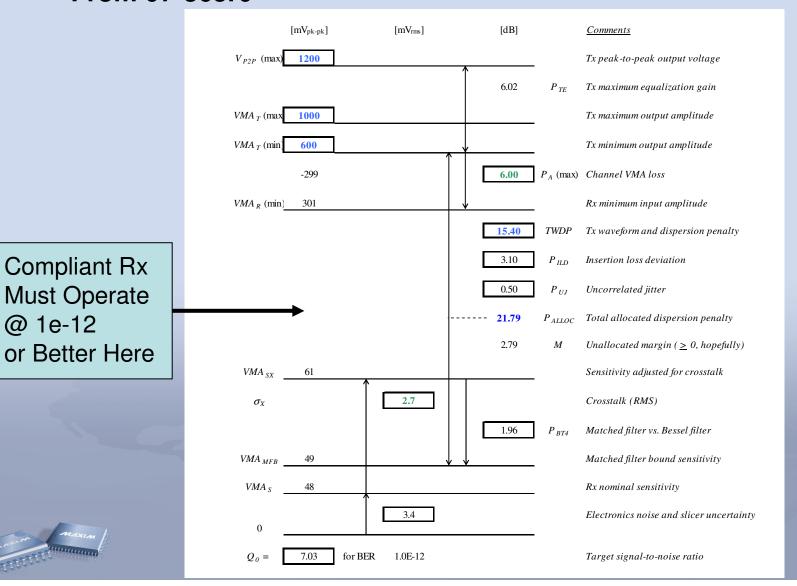
Kevin Witt T10/07-380r0





Proposed Link Budget

From 07-365r0

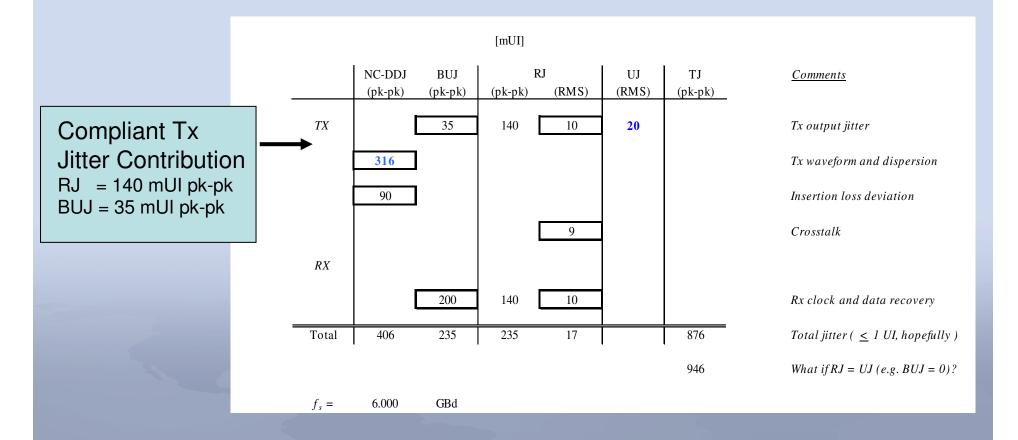


@ 1e-12



Proposed Jitter Budget

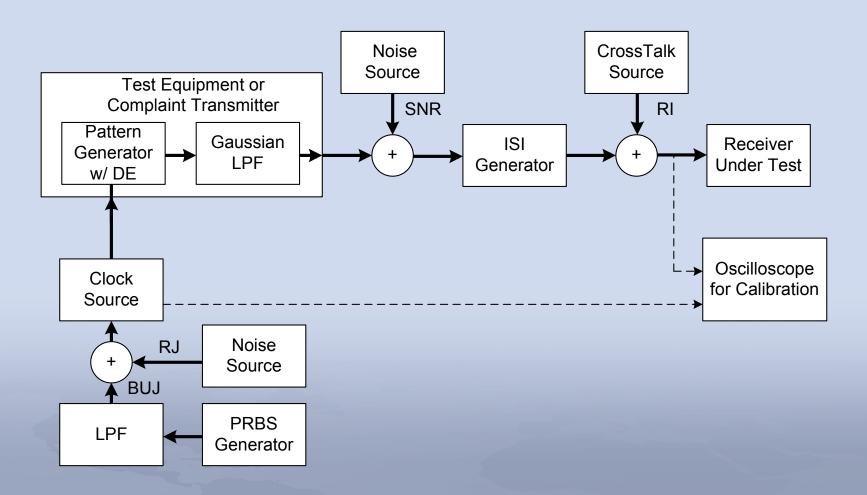
From 07-365r0

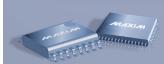






Test Configuration

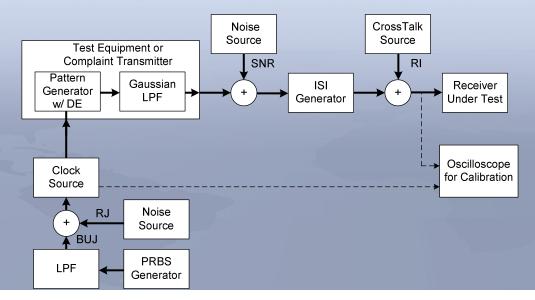






Test Calibration and Methodology

- Tx SNR (Q_{sq})
 - Use Low Frequency Pattern and Measure SNR at the end of the channel to Match Budgeted Tx SNR
- Transmitter Setup
 - Set to Match Reference Tx (w/ tolerance)
- Channel Calibration
 - Compute WDP / P_{alloc} (w/ RJ and BUJ disabled)
 - Adjust ISI Filter such that P_{ISI} > P_{alloc}
- Transmitter Jitter Calibration
 - Adjust RJ and BUJ to Spec
- Crosstalk
 - Use Bounded Crosstalk Source and Adjust Amplitude to SNR Degradation in Link Budget
- Confirm Operation at better than a BER of 1e-12







Summary

 Quick Overview of a Link Budget Based Comprehensive Receiver Compliance Test Provided.

