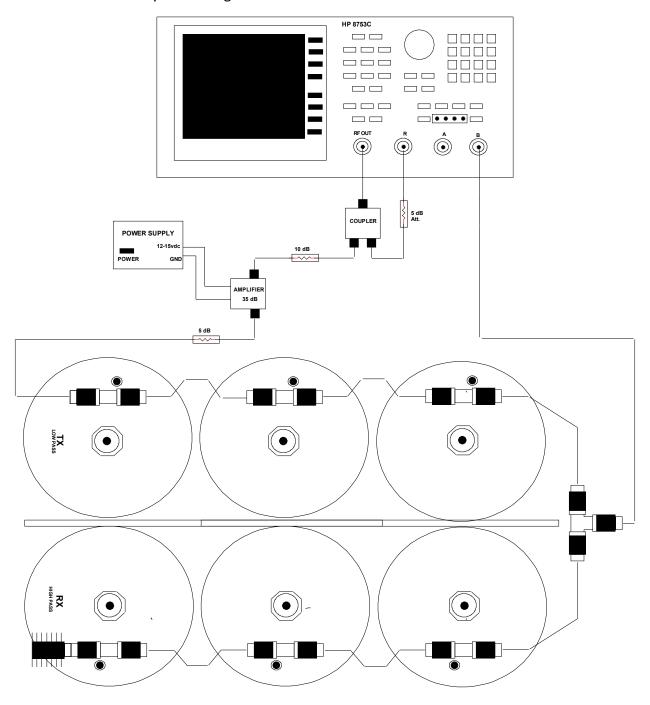
HP 8753C Dynamic Range

The HP8753C VNA has a dynamic range of 80 dB when the IF bandwidth 3000 Hz. To extend the VNA's dynamic range an amplifier must be added to the RF output and the IF bandwidth must be reduced to 20 Hz. (Press the AVG button on the Response menu and select IF BW at the screens bottom corner) Note: For 4 cavity duplexer, the amplifier and 10 dB pad are not needed. The VNA's dynamic range is about 90 dB when the IF bandwidth is reduced to 20 Hz.



Warning The HP8753 RF output is about 0 dB, so you need to make sure amplifier input will not be damaged by the VNA. This is the amplifier I use with my HP VNA, it provides about 35 dB gain with an input of 0 dB and the 10 dB pad is not needed. The amp was purchased on eBay.



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Some of the Nano VNA's are being advertised as having 100 dB of dynamic range, but this falls short of having 120 dB needed for 6 cavity duplexers.

WA5OKO