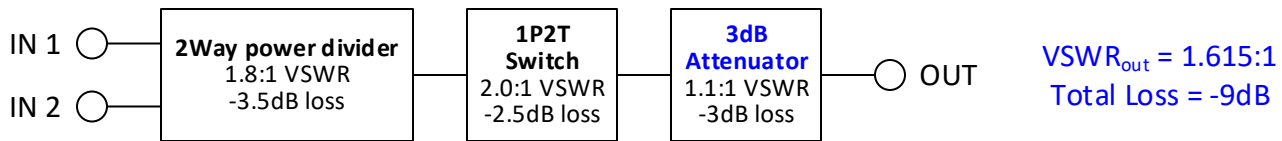
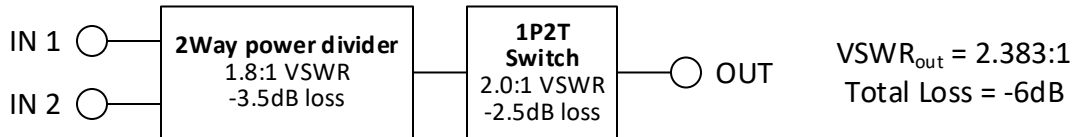




VSWR Reduction Chart

Fixed attenuators can do more than just decrease signal levels, they can also be used to reduce port VSWR. If several 50 Ohm RF components are combined in series, the VSWR of each component adds together resulting in much higher output port VSWR. Often is the case when cabling together components such as power splitters, RF switches and directional couplers. A fixed attenuator added at the output port can lower the VSWR to an acceptable level.

Example: Adding 2dB fixed attenuator to reduce output port VSWR



VSWR Reduction by Fixed Attenuator Value

Value	6.0:1	5.0:1	4.0:1	3.5:1	3.0:1	2.5:1	2.0:1	1.5:1
1dB	3.6230:1	3.2513:1	2.8211:1	2.5797:1	2.3177:1	2.0322:1	1.7203:1	1.3778:1
2dB	2.6409:1	2.4521:1	2.2184:1	2.0794:1	1.9218:1	1.7413:1	1.5327:1	1.2889:1
3dB	2.1152:1	2.0036:1	1.8600:1	1.7718:1	1.6688:1	1.5471:1	1.4011:1	1.2229:1
4dB	1.7947:1	1.7226:1	1.6277:1	1.5680:1	1.4970:1	1.4114:1	1.3060:1	1.1730:1
5dB	1.5836:1	1.5343:1	1.4683:1	1.4262:1	1.3756:1	1.3135:1	1.2357:1	1.1350:1
6dB	1.4373:1	1.4023:1	1.3549:1	1.3244:1	1.2873:1	1.2413:1	1.1828:1	1.1058:1
7dB	1.3324:1	1.3069:1	1.2720:1	1.2493:1	1.2216:1	1.1870:1	1.1425:1	1.0831:1
8dB	1.2553:1	1.2363:1	1.2102:1	1.1931:1	1.1721:1	1.1457:1	1.1116:1	1.0655:1
9dB	1.1976:1	1.1832:1	1.1634:1	1.1504:1	1.1343:1	1.1141:1	1.0876:1	1.0517:1
10dB	1.1538:1	1.1429:1	1.1277:1	1.1176:1	1.1053:1	1.0896:1	1.0690:1	1.0408:1