



Technical Note TX Frequency Rejection Measurements

TN-0000321
Revision: 1
Version: 1.1
Date: [2011-02-08]

Introduction

The purpose of this technical note is to provide measured results for the TX frequency rejection of EMS Technologies diplexer product number 1541-A-2000. These measurements are in support of EMS Technologies Class II permissive change request for FCC ID: K6KHSD-Xi to add a new transceiver variant HDU-200, 1541-A-3000.

Measurements

The table below represents the minimum guaranteed TX path frequency rejection response of the EMS Technologies diplexer Part Number # 1541-A-2000. These measurements are referenced from the input TX port to the Antenna port.

Freq (MHz)	IPLD Rejection (dB)
.010 to 1026.5	-74
1026.5 to 1525	-94
1525 to 1559	-120
1559 to 1585	-94
1585 to 1605	-71
1605 to 1610	-51
1610 to 1610.6	-48
1610.6 to 1613.8	-33
1613.8 to 1614	-32
1614 to 1620	-3.5
1620 to 1624.5	-1
1624.5 to 1625.5	-1
1625.5 to 1626.5	-1
1626.5 to 1660	-0.1
1660 to 1670	-1
1670 to 1735	-18.5
1735 to 1865	-50
1865 to 2260.5	-60
2260.5 to 3250	-60



Freq (MHz)	IPLD Rejection (dB)
3250 to 3330	-70
3330 to 4000	-50
4000 to 12000	-65
12000 to 18000	-50