

# Monolithic Block Duplexer Specification

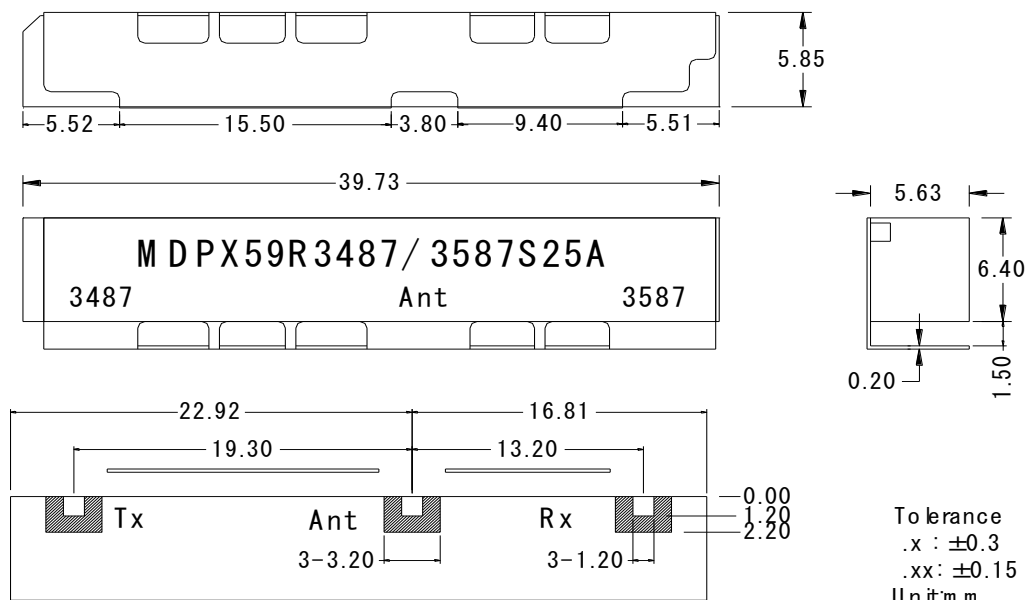
## 3.5GHz RU Duplexer Band 4 Specification

Part No: DNM3487-3587-25A1  
 Date: 12/4/2002

### 1. Properties:

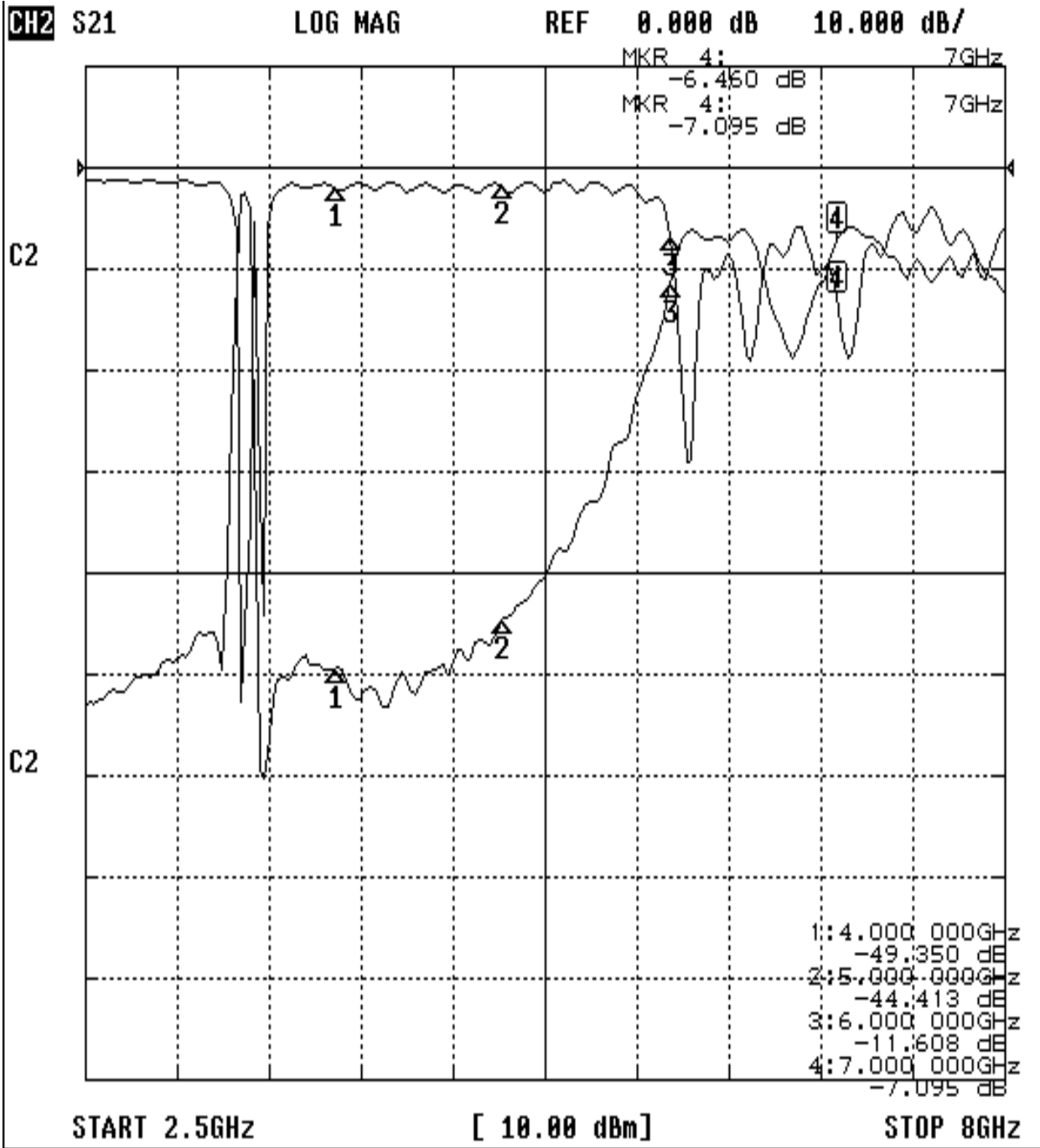
No.	Characteristics	Unit	Tx → ANT	ANT → Rx
1	Center Frequency (F <sub>0</sub> )	MHz	3487.5	3587.5
2	Bandwidth	MHz	3475-3500	3575-3600
3	Insertion Loss in BW (max.)	dB	3.0	3.0
4	Ripple in BW (max.)	dB	0.5	0.5
5	V.S.W.R in BW (max.)	dB	1.5	1.5
6	Attenuation (min.)	dB	35 @ <2525 MHz	35 @ <2525 MHz
			45 @ 2820 - 3021 MHz	40 @ 2874 - 3117 MHz
			40 @ 3147 - 3261 MHz	30 @ 3453 - 3480 MHz
			35 @ 3575 - 3600 MHz	35 @ 3475 - 3500 MHz
			35 @ 4025- 5025 MHz	35 @ 4025 - 5025 MHz
7	Tx - Rx Isolation (min.)	dB	50 (3475-3500) - (3575-3600)	
8	In/Out Impedance	Ohm	50	50
9	Operation Temperature	C	-45 to +70	

### 2. Dimension:

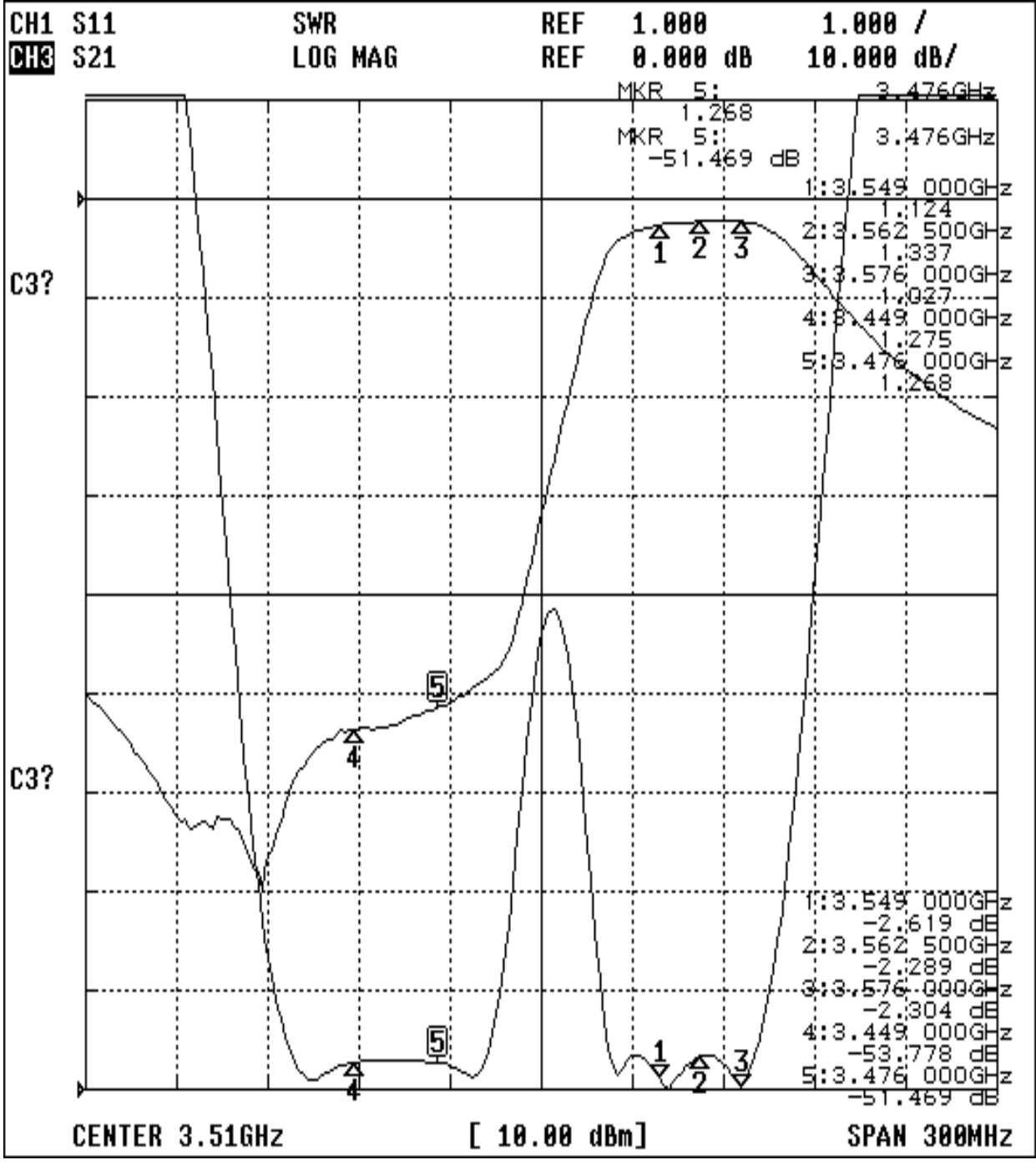


**Recommended PCB Layout For MCV Technologies Inc. MDPX59R3462/3562S27**

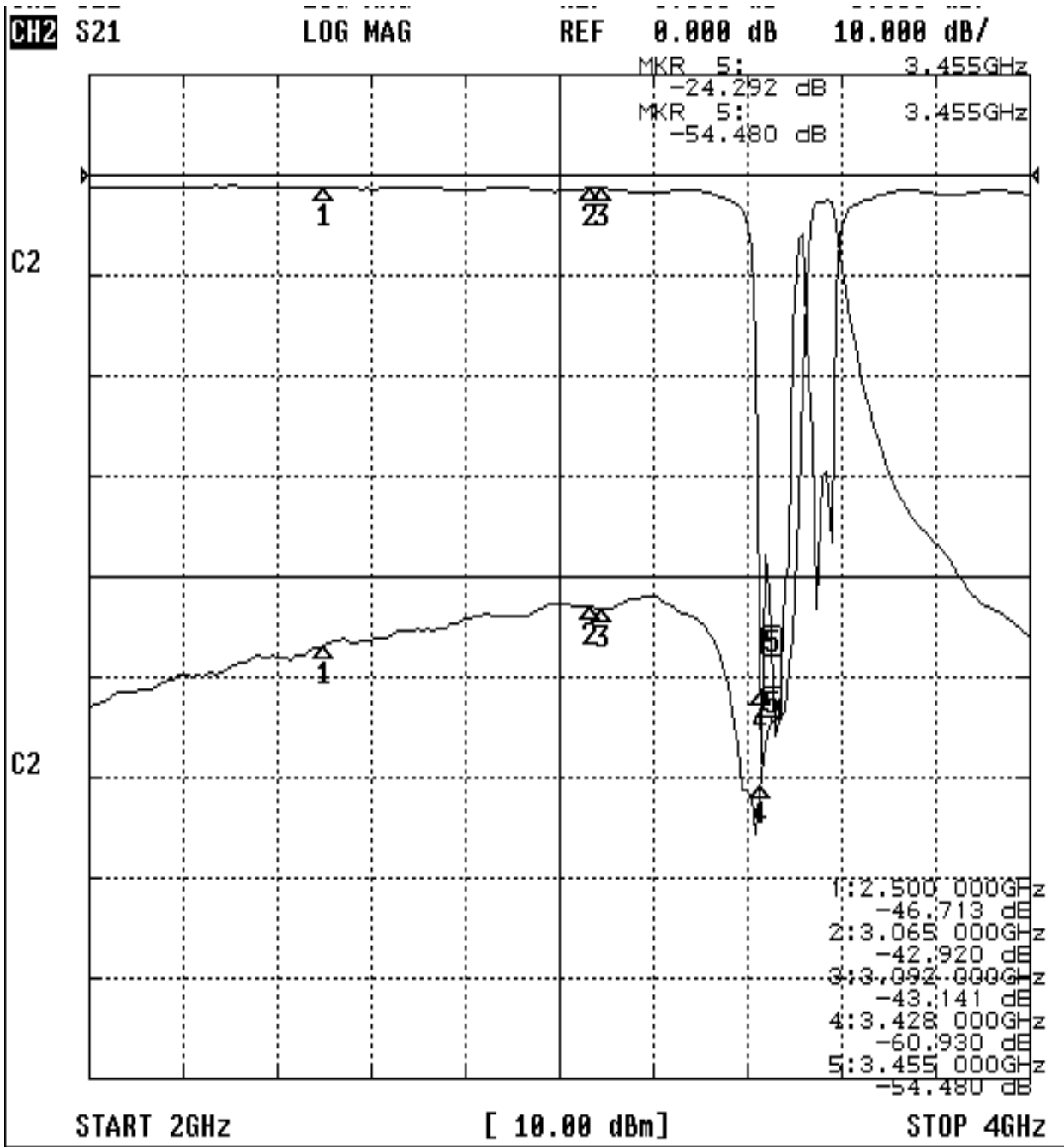
<b>CH1 S11</b>	<b>LOG MAG</b>	<b>REF</b>	<b>0.000 dB</b>	<b>5.000 dB/</b>
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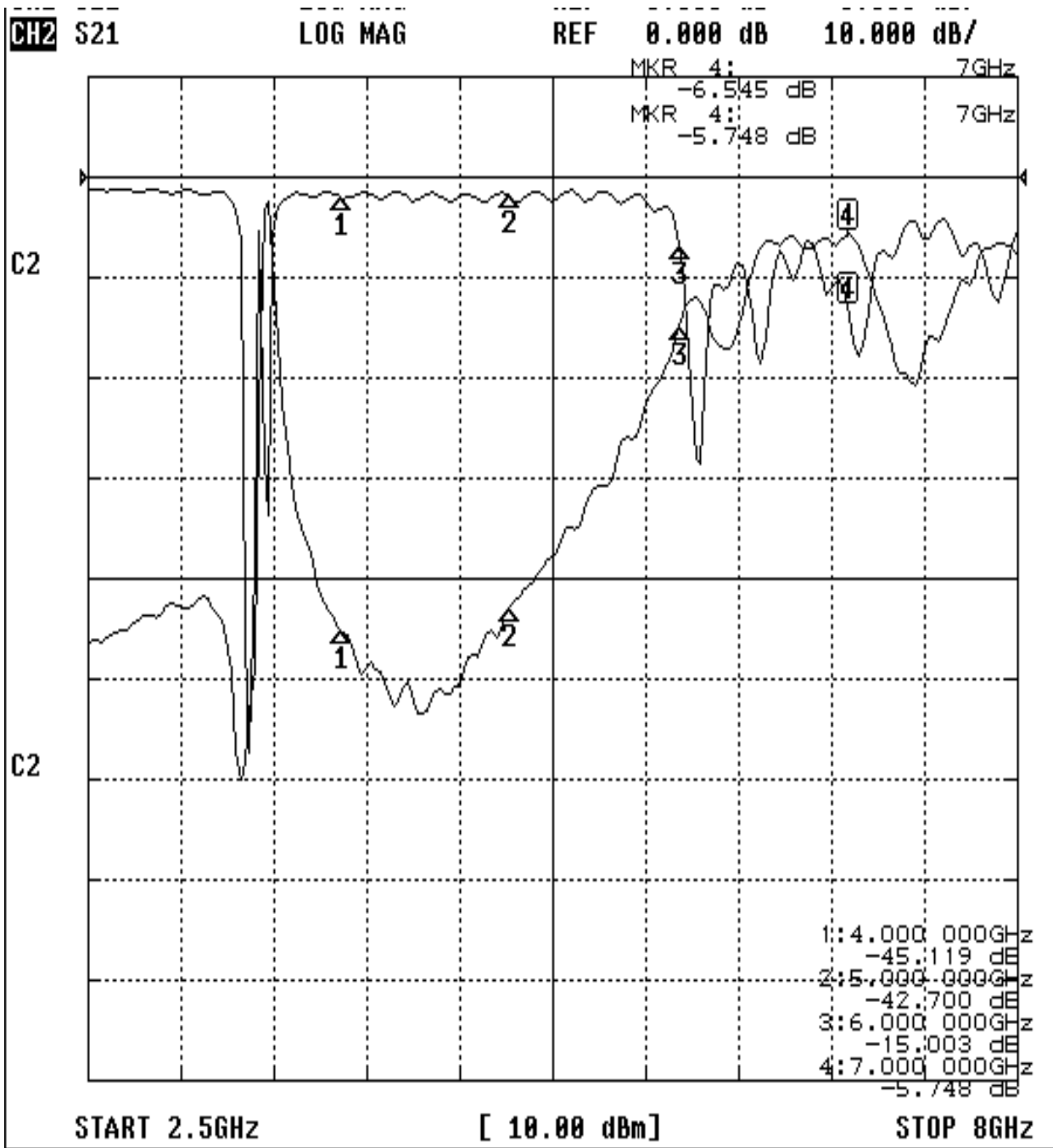


ANT → Rx

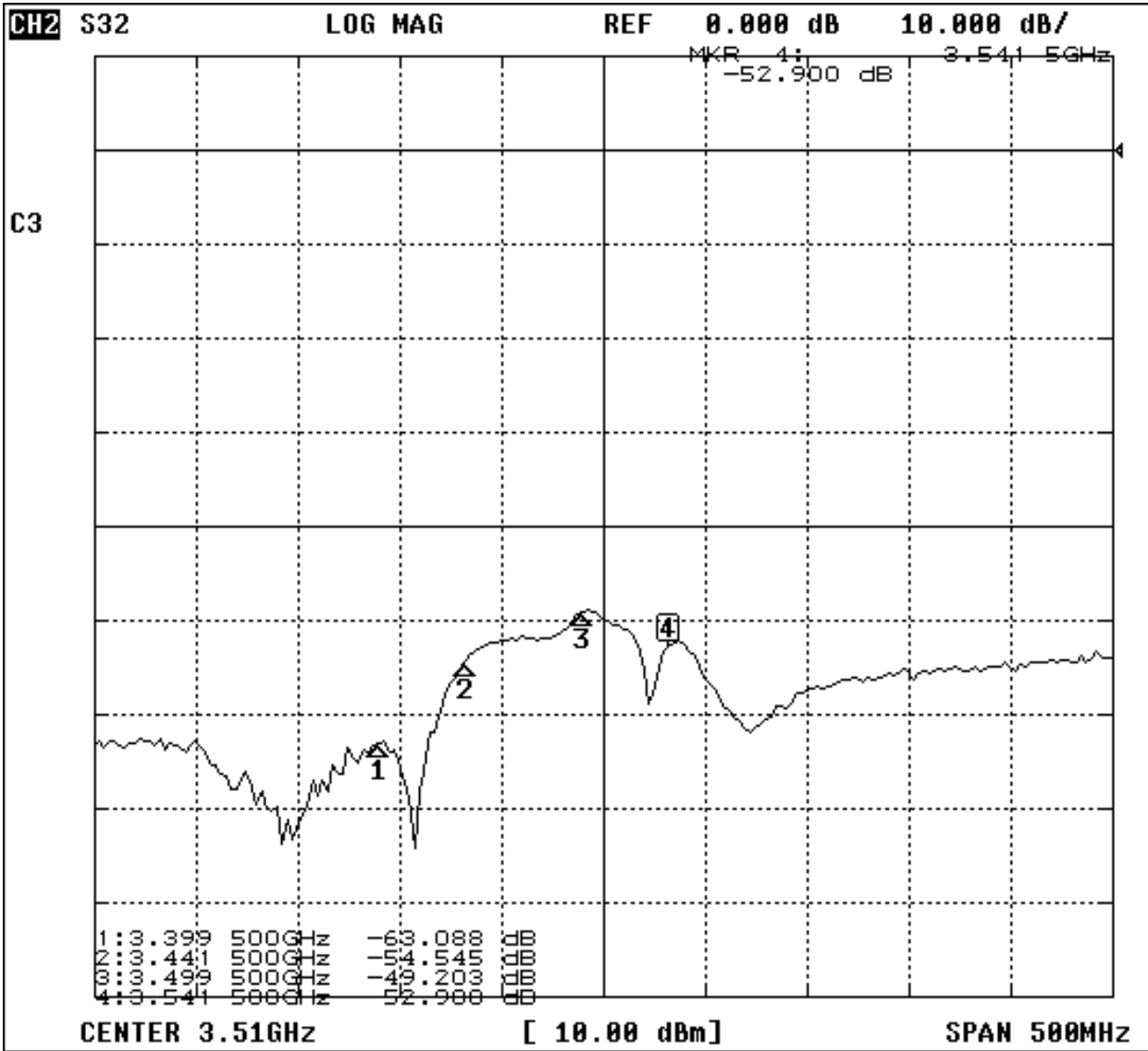


CH1 S11	LOG MAG	REF 0.000 dB	5.000 dB/
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Tx - Rx Isolation







**'F (Reversed Tx/Rx Design)**