

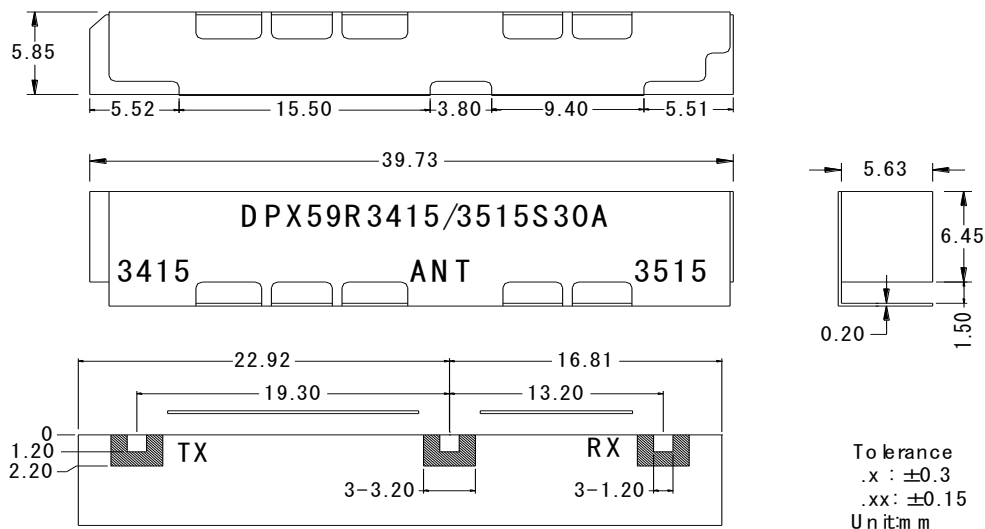
Monolithic Block Duplexer Sample Specification A-Band RF Duplexer

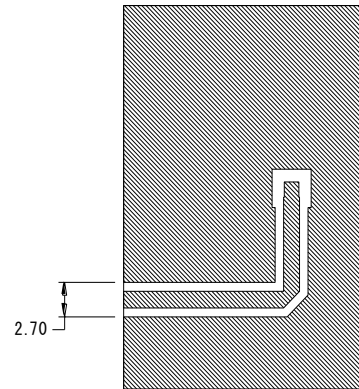
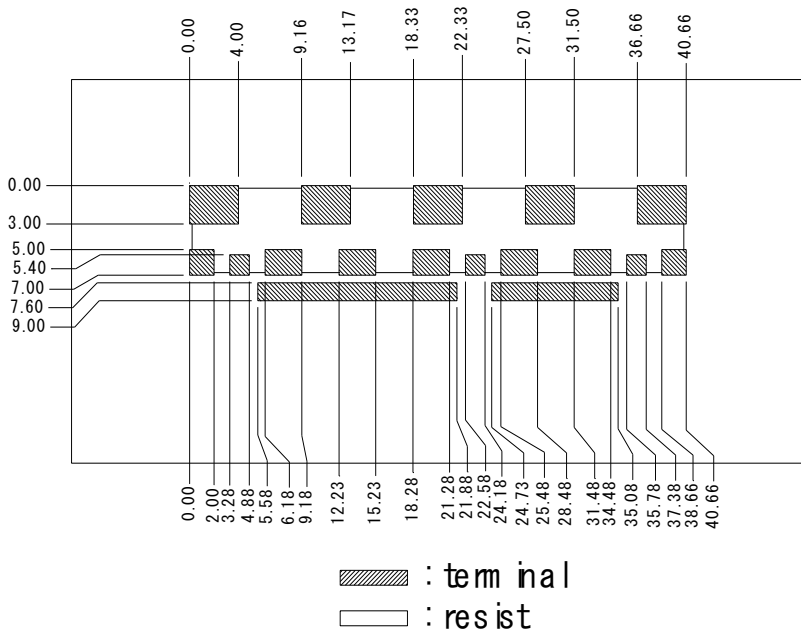
Part No: DNM3415-3515-30B1
Date: 11/18/2002

1. Properties:

No.	Characteristics	Unit	Tx → ANT	ANT → Rx
1	Center Frequency (F ₀)	MHz	3415	3515
2	Bandwidth	MHz	F ₀ +/- 15	F ₀ +/- 15
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 @ <2452 MHz	35 @ <2453 MHz
			45 @ 2748 - 2949 MHz	35 @ 2802 - 3045 MHz
			40 @ 3075 - 3189 MHz	30 @ 3381 - 3408 MHz
			35 @ 3500 - 3530 MHz	35 @ 3400 - 3430 MHz
			35 @ 3953 - 4953 MHz	35 @ 3953 - 4953 MHz
7	Tx - Rx Isolation (min.)	dB	50 (3400 - 3430) - (3500 - 3530)	
8	In/Out Impedance	Ohm	50	50
9	Operation Temperature	C	-45 to +70	

2. Dimension:

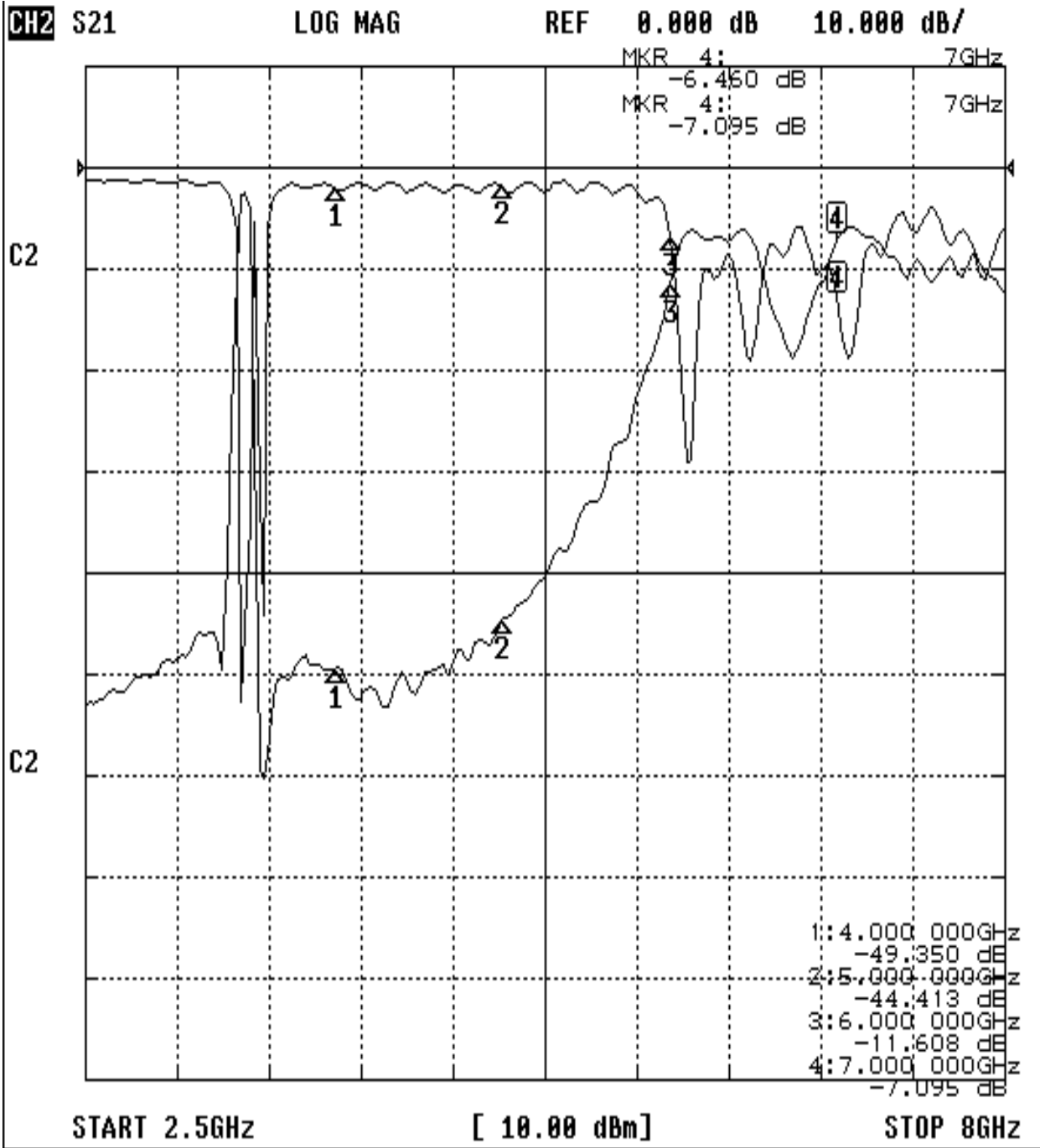




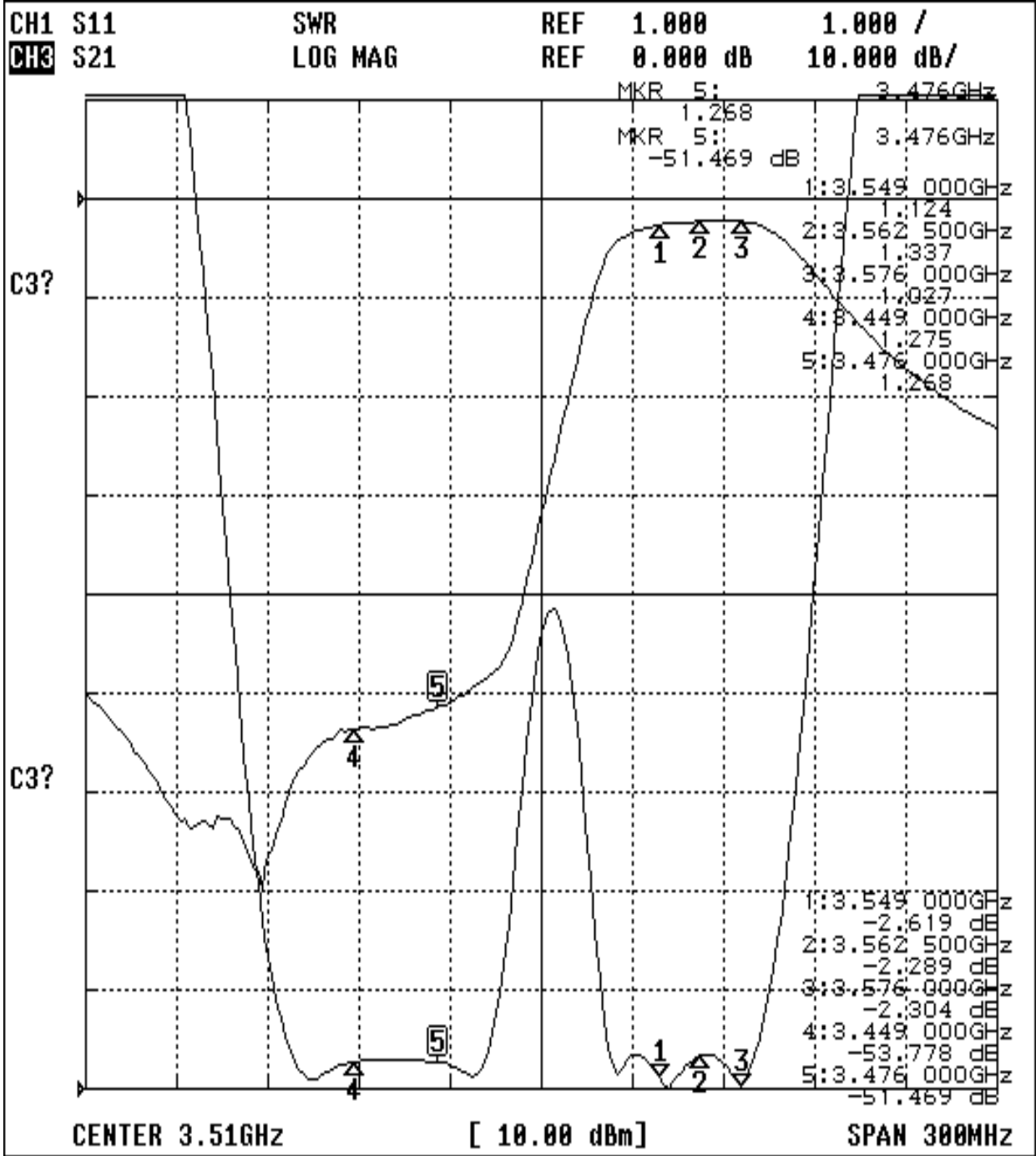
S
F
T

Recommended PCB Layout For MCV Technologies Inc. MDPX59R3415/3515S3C

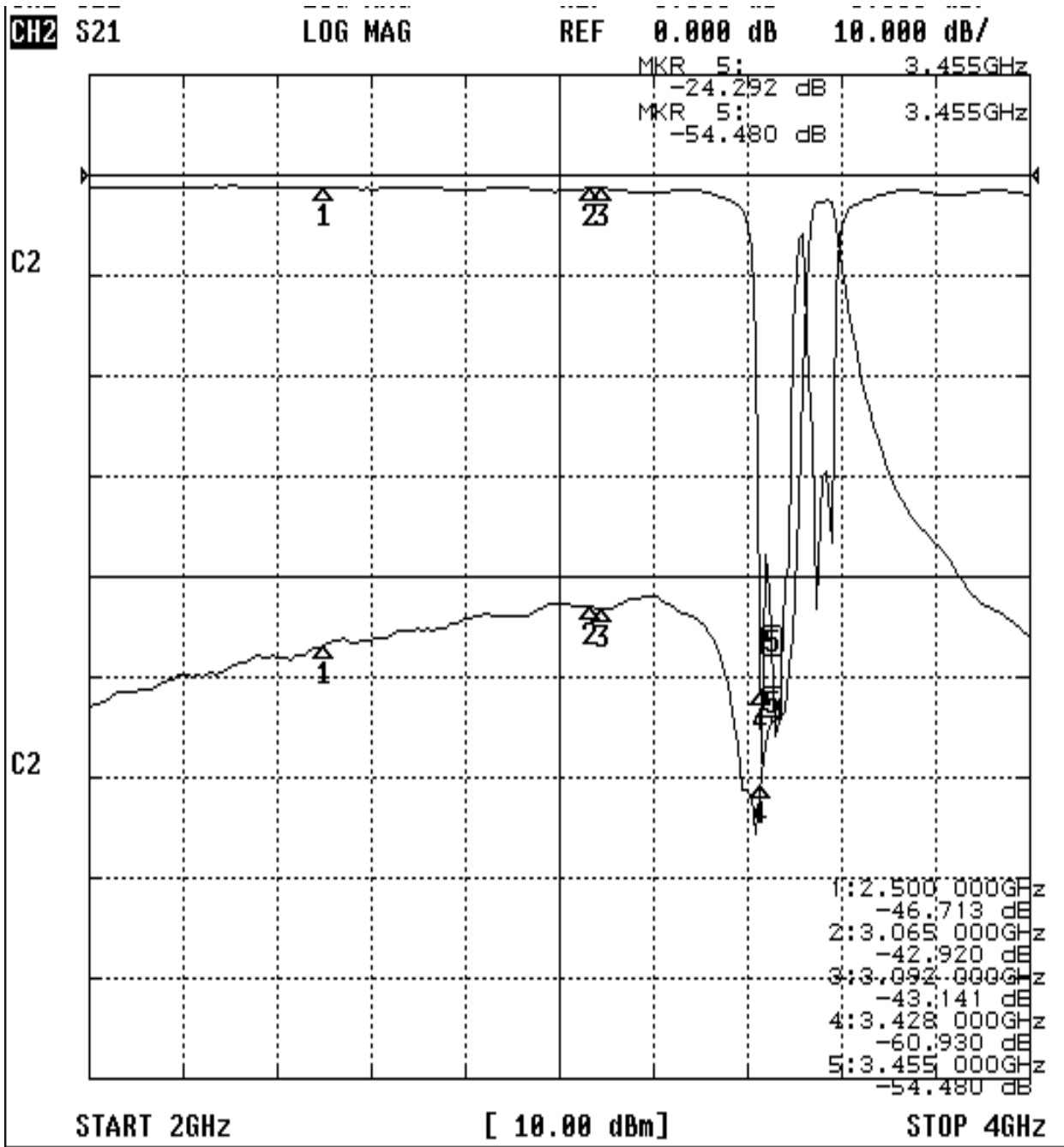
CH1 S11	LOG MAG	REF	0.000 dB	5.000 dB/
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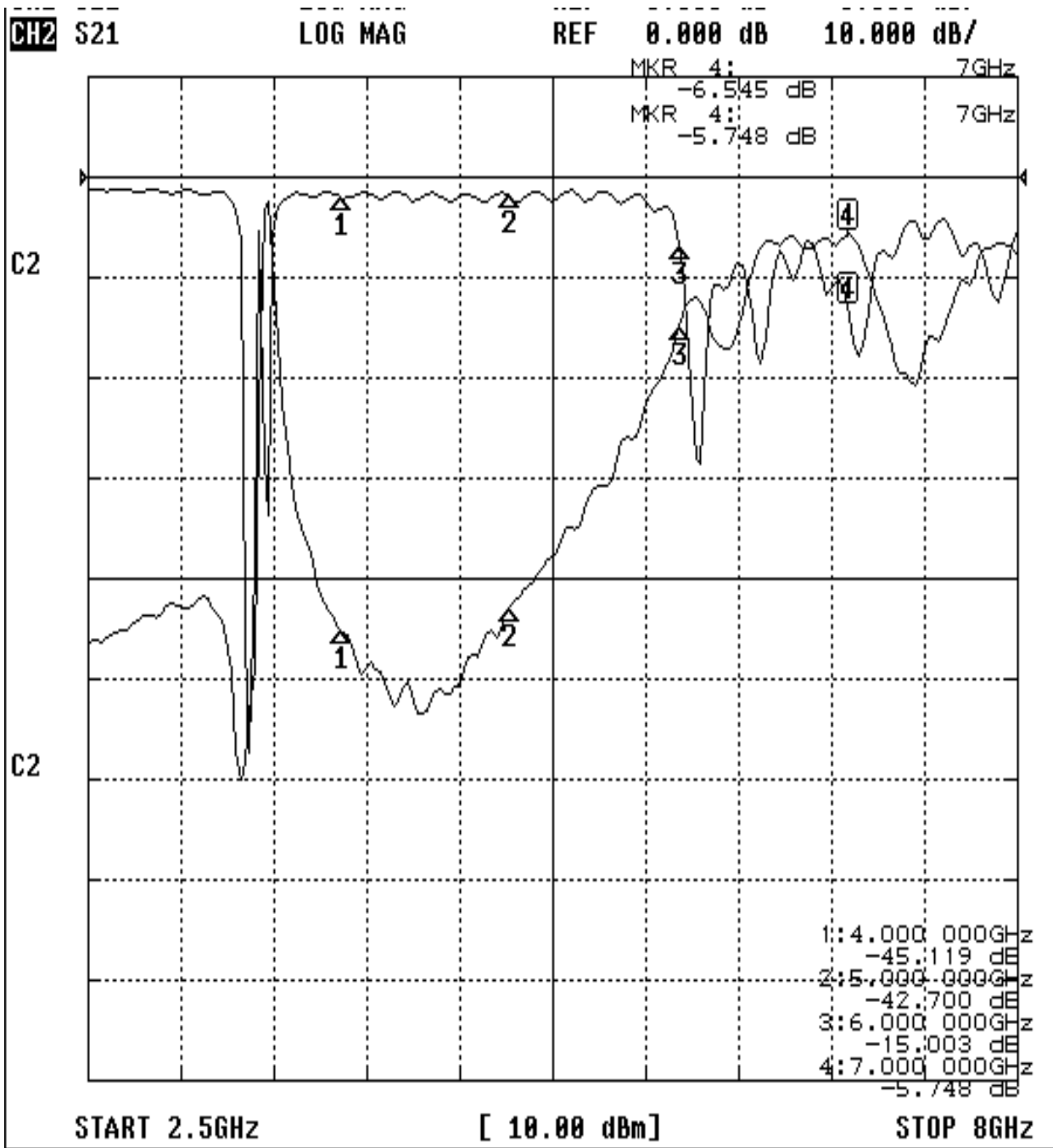
ANT → Rx



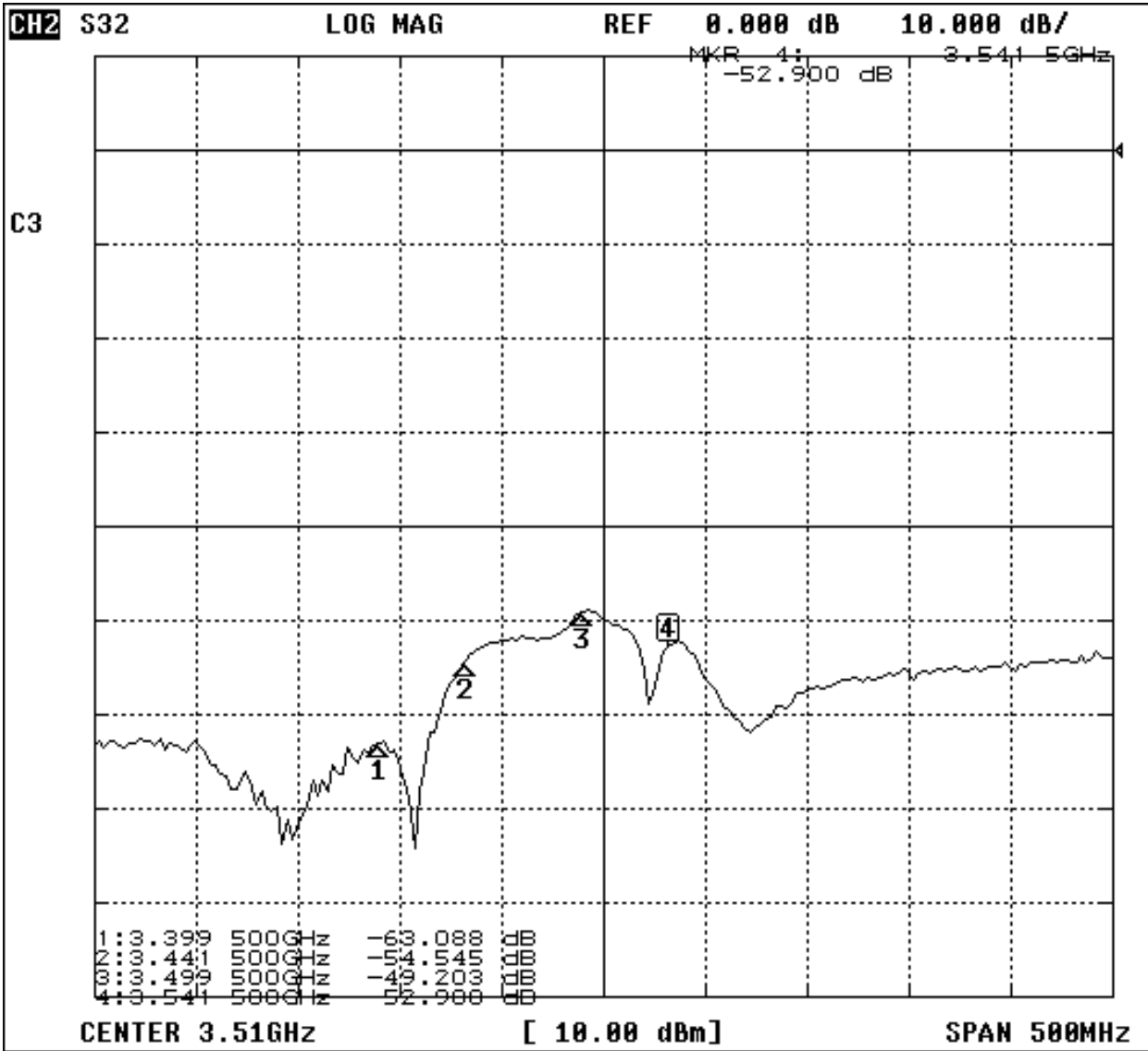
CH1 S11	LOG MAG	REF 0.000 dB	5.000 dB/
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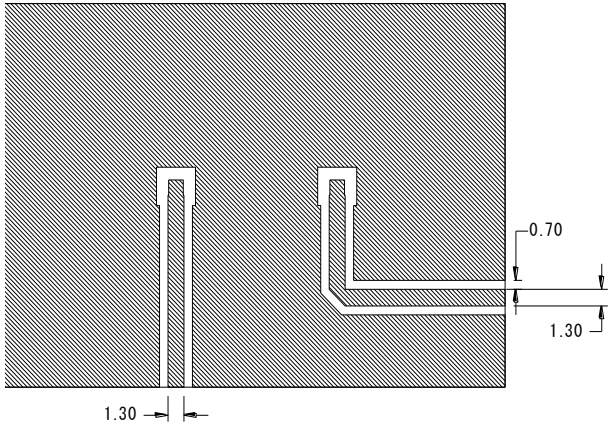


CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/



Tx - Rx Isolation





ST LINE CONDITION

IR4

Γ : 0.8m m