

Monolithic Block Duplexer Sample Specification

3.5GHz RU Duplexer (B-Band Short Term)

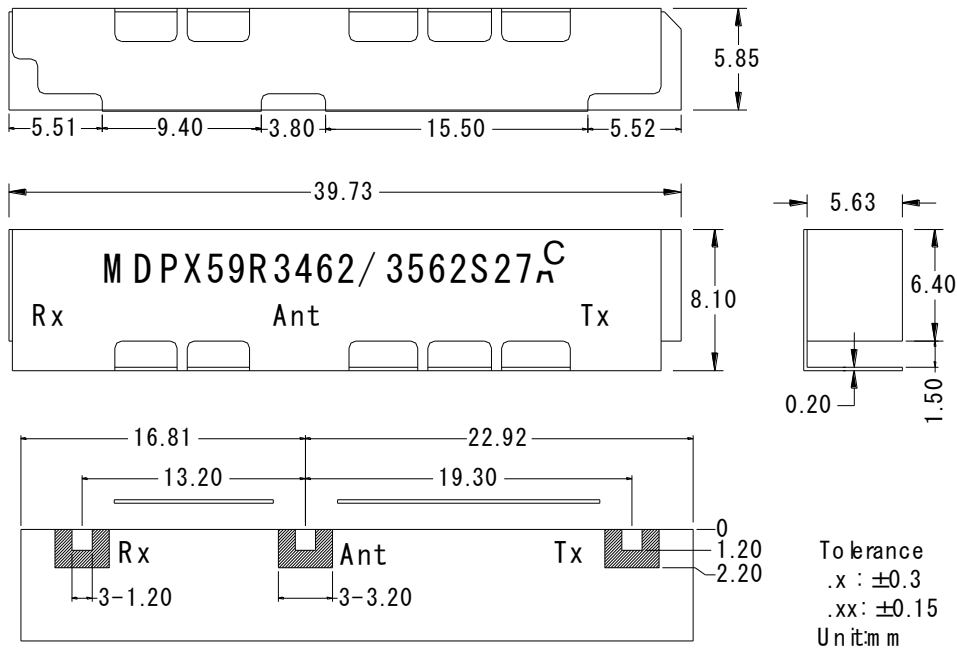
Part No: DNM3462-3562-27B1

Date: 8/23/2002

1. Properties:

No.	Characteristics	Unit	Tx → ANT	ANT → Rx
1	Center Frequency (F ₀)	MHz	3462.5	3562.5
2	Bandwidth	MHz	F ₀ +/- 13.5	F ₀ +/- 13.5
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 @ <2500 MHz	
			45 @ 2969 - 2996 MHz	40 @ 3065 - 3092 MHz
			45 @ 3209 - 3236 MHz	
			50 @ 3549 - 3576 MHz	50 @ 3499 - 3476 MHz
			35 @ 4000- 5000 MHz	35 @ 4000 - 5000 MHz
7	Tx - Rx Isolation (min.)	dB	45	
8	In/Out Impedance	Ohm	50	50
9	Operation Temperature	C	-45 to +70	

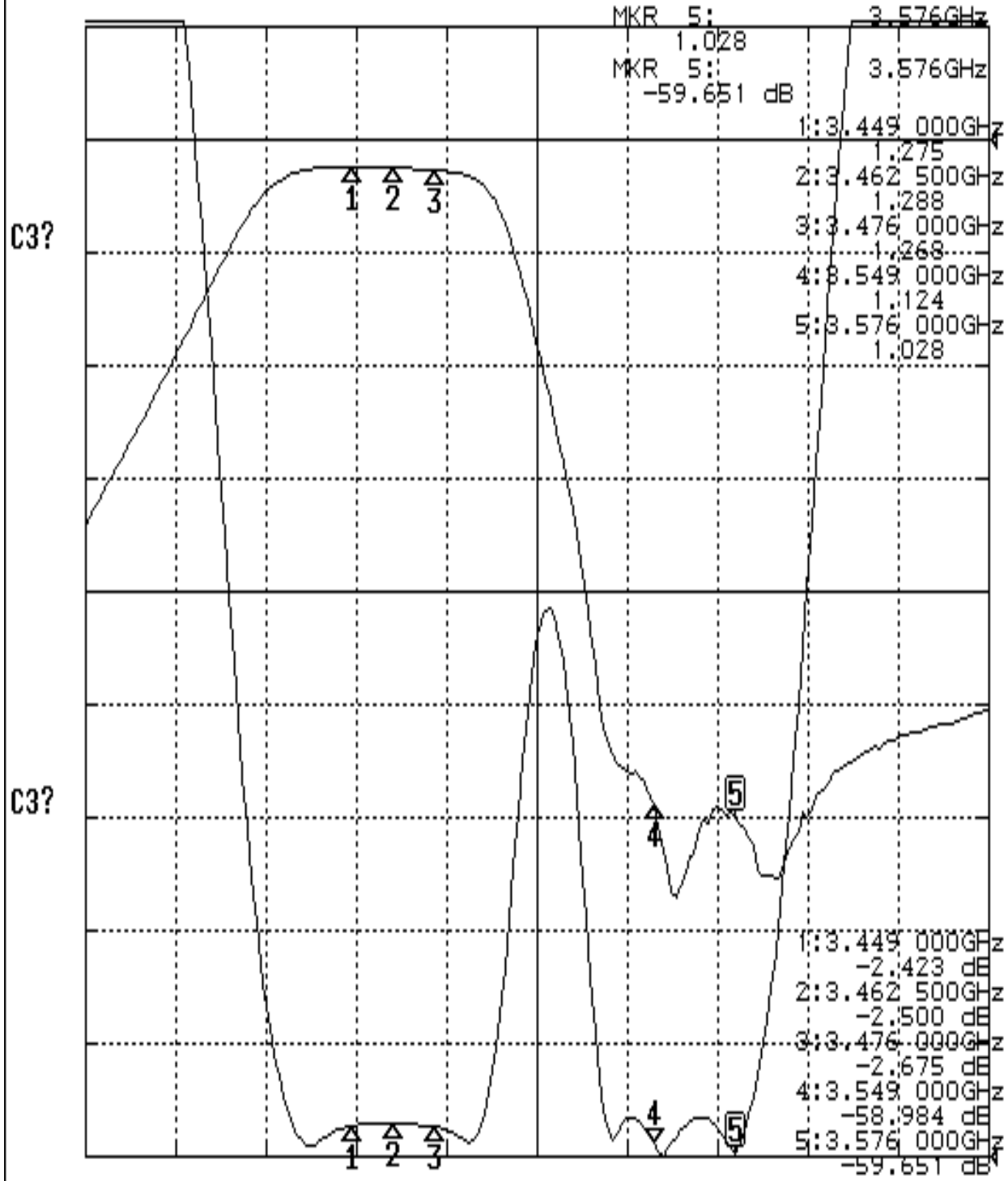
2. Dimension:



Performance

Tx → ANT

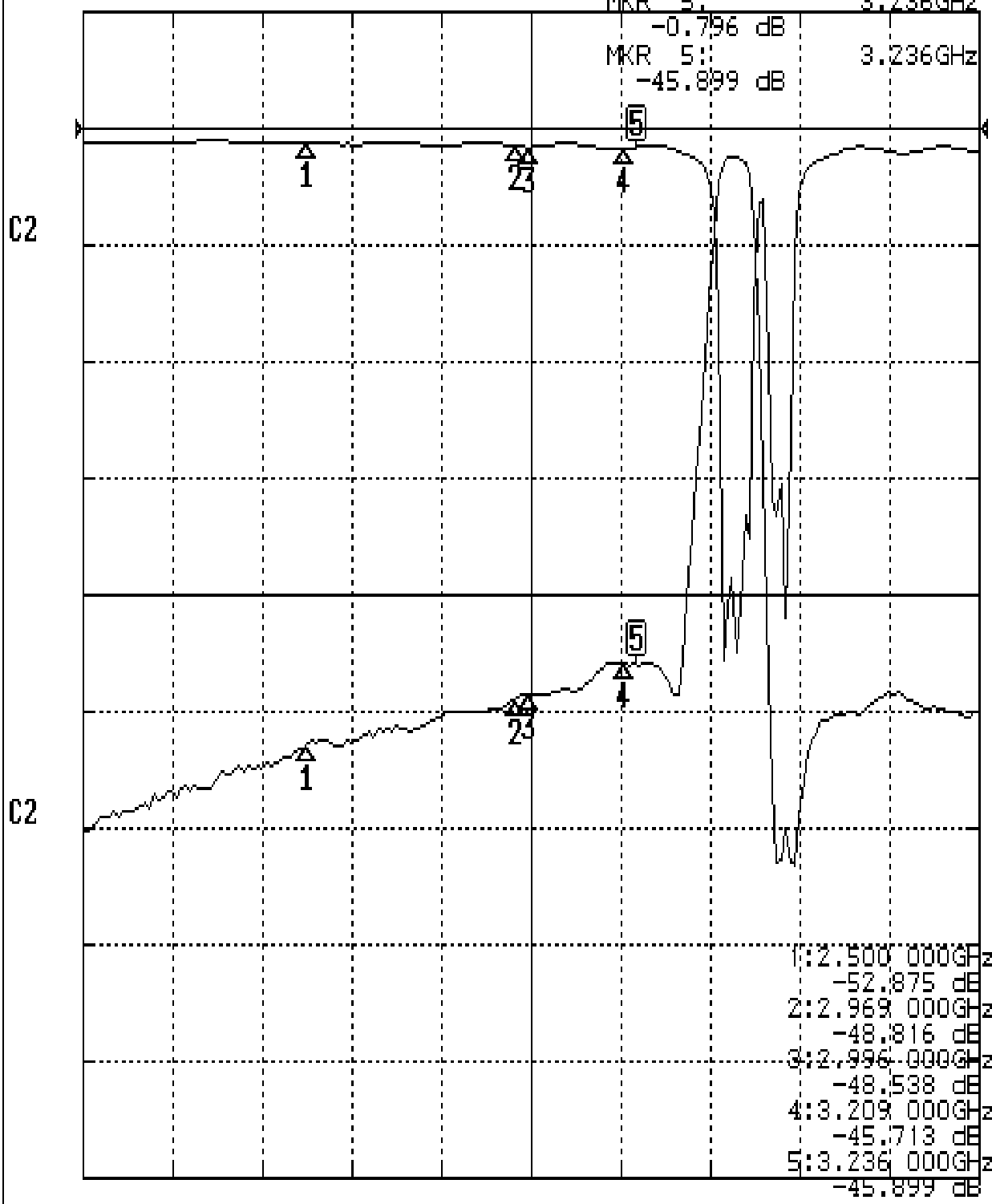
CH2 S11 SWR REF 1.000 1.000 /
 CH4 S31 LOG MAG REF 0.000 dB 10.000 dB/



CENTER 3.51GHz [10.00 dBm] SPAN 300MHz

CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/
 CH2 S21 LOG MAG REF 0.000 dB 10.000 dB/

MKR 5: 3.236GHz
 -0.796 dB
 MKR 5: 3.236GHz
 -45.899 dB



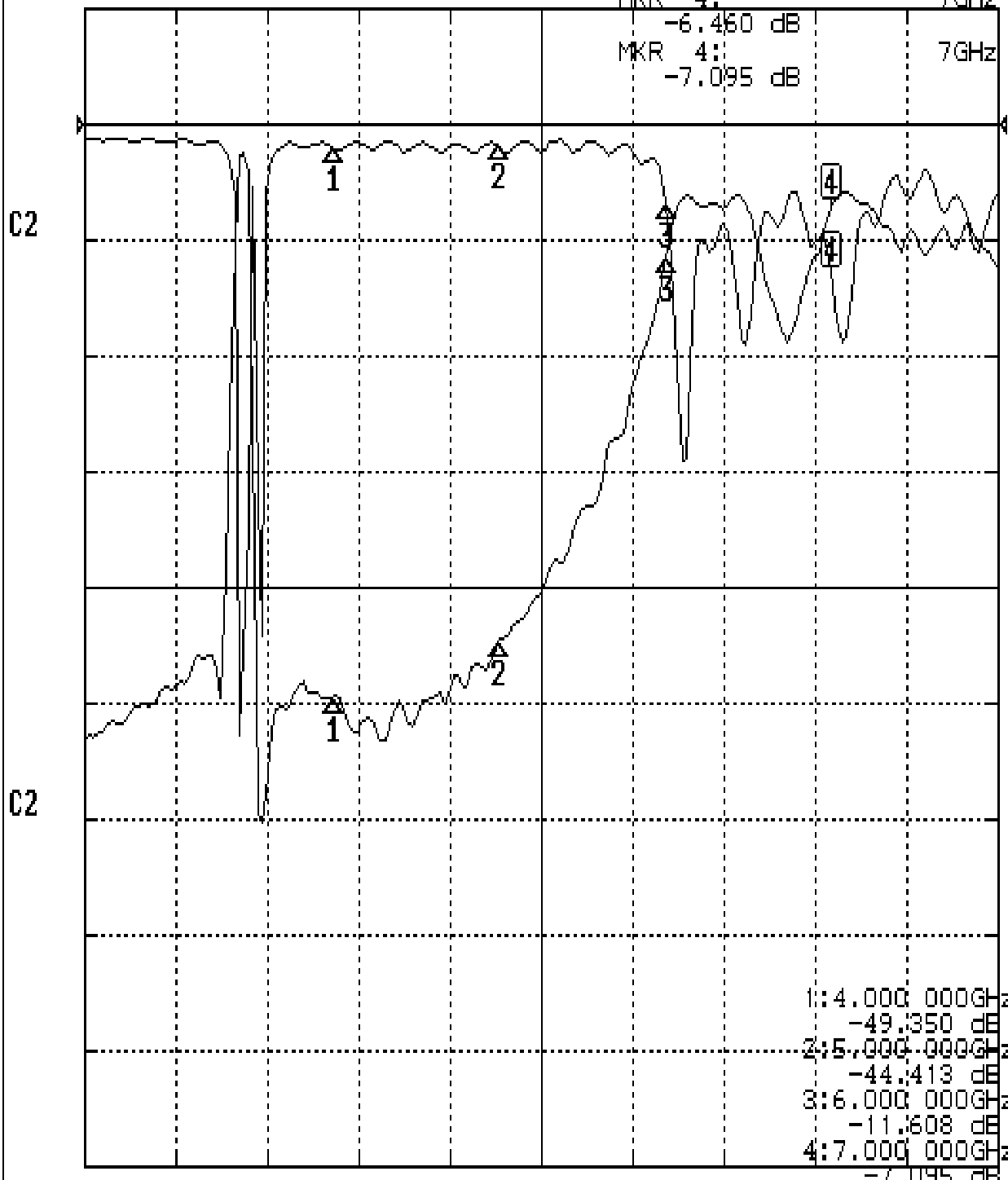
START 2GHz

[10.00 dBm]

STOP 4GHz

CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/
 CH2 S21 LOG MAG REF 0.000 dB 10.000 dB/

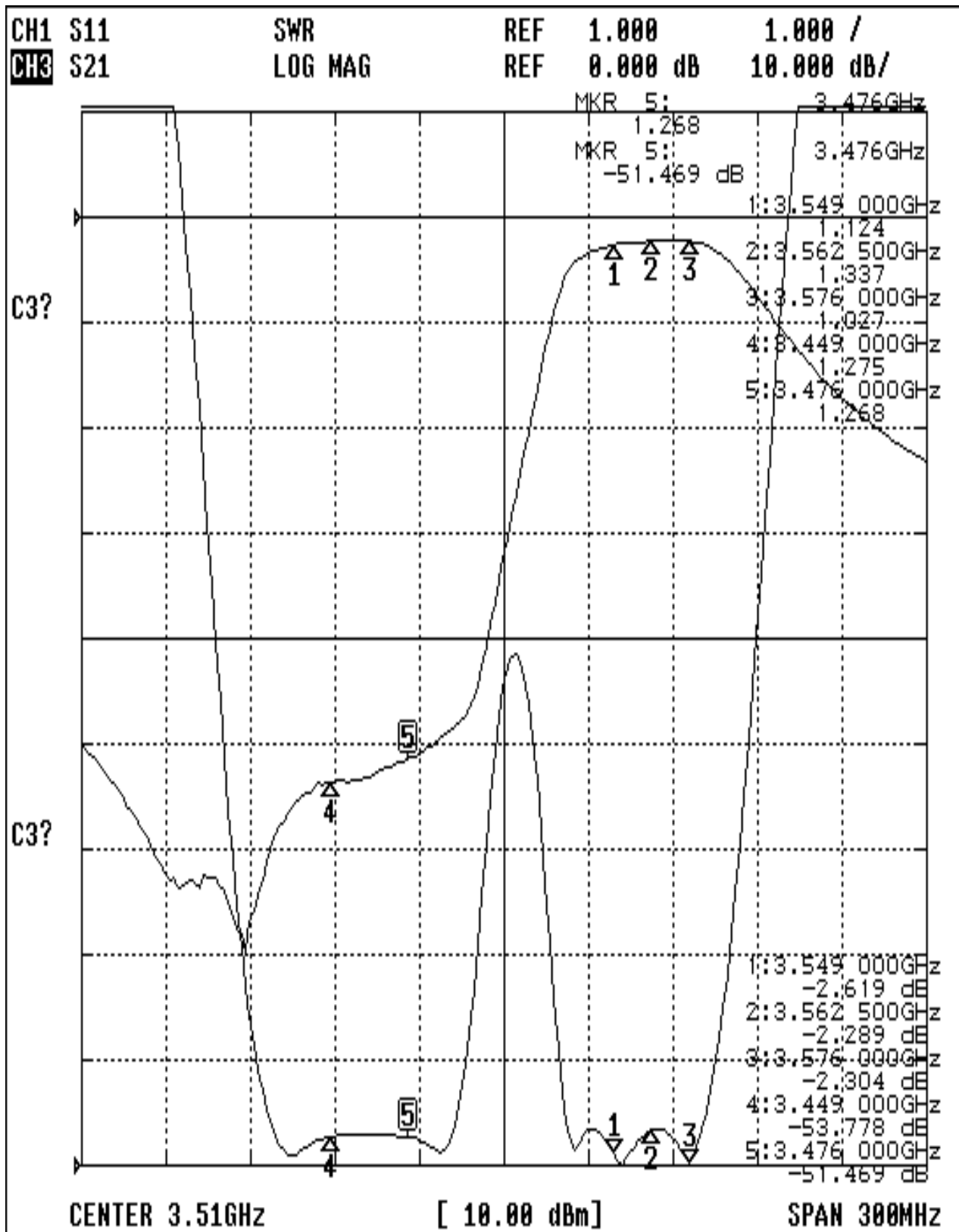
MKR 4: 7GHz
 -6.450 dB
 MKR 4: 7GHz
 -7.095 dB

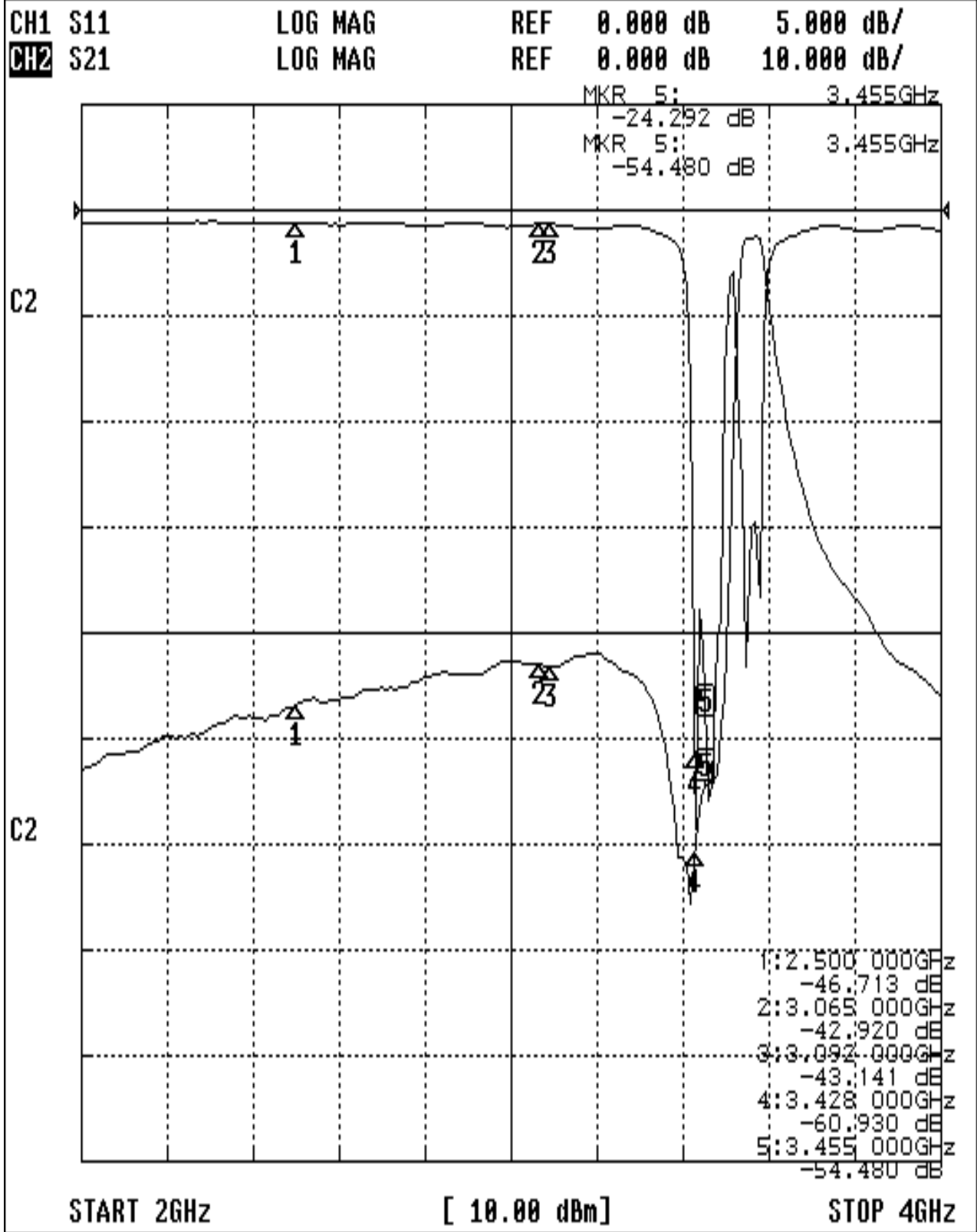


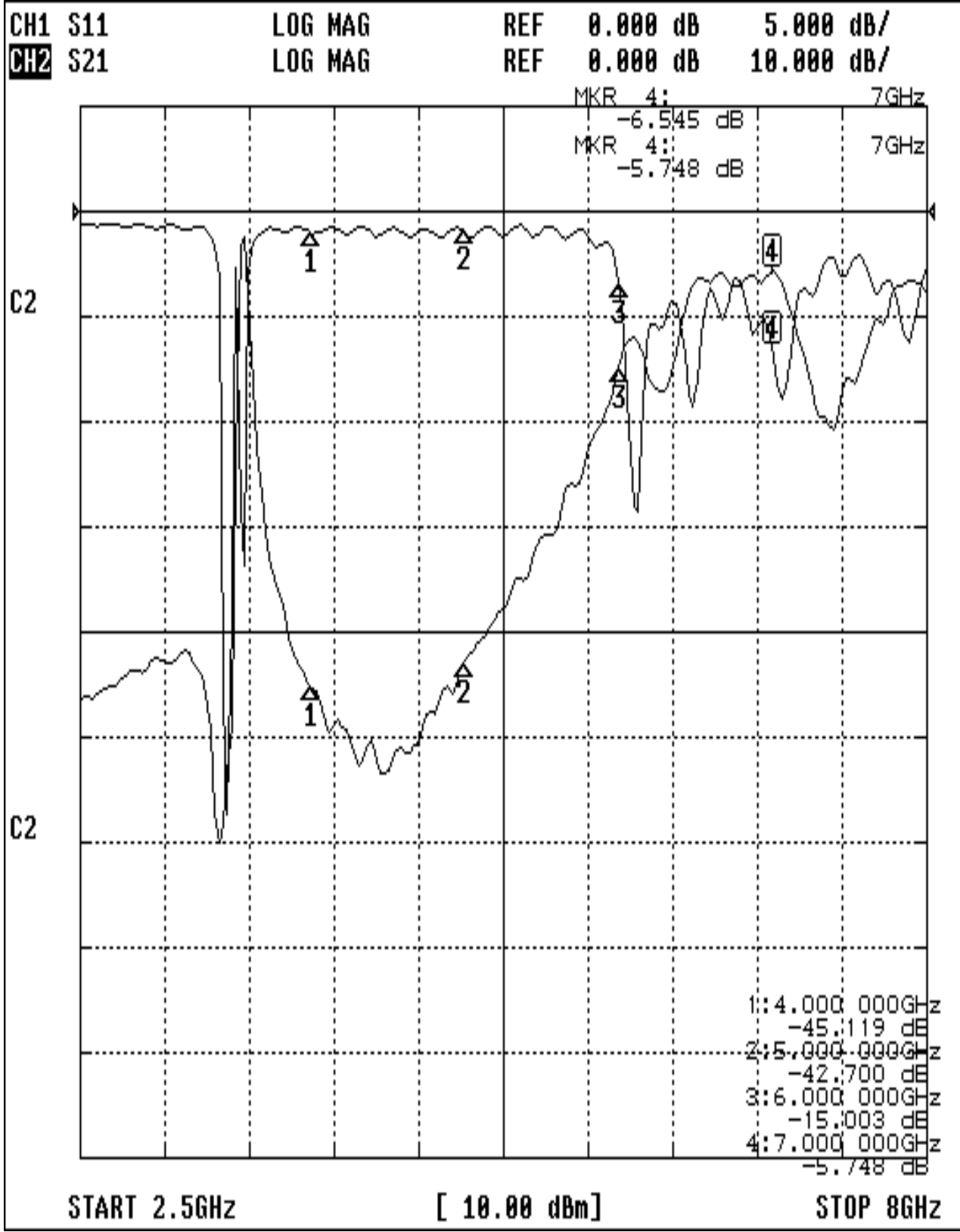
1: 4.000 000GHz
 -49.350 dB
 2: 5.000 000GHz
 -44.413 dB
 3: 6.000 000GHz
 -11.608 dB
 4: 7.000 000GHz
 -7.095 dB

START 2.5GHz [10.00 dBm] STOP 8GHz

ANT → Rx







Tx - Rx Isolation

