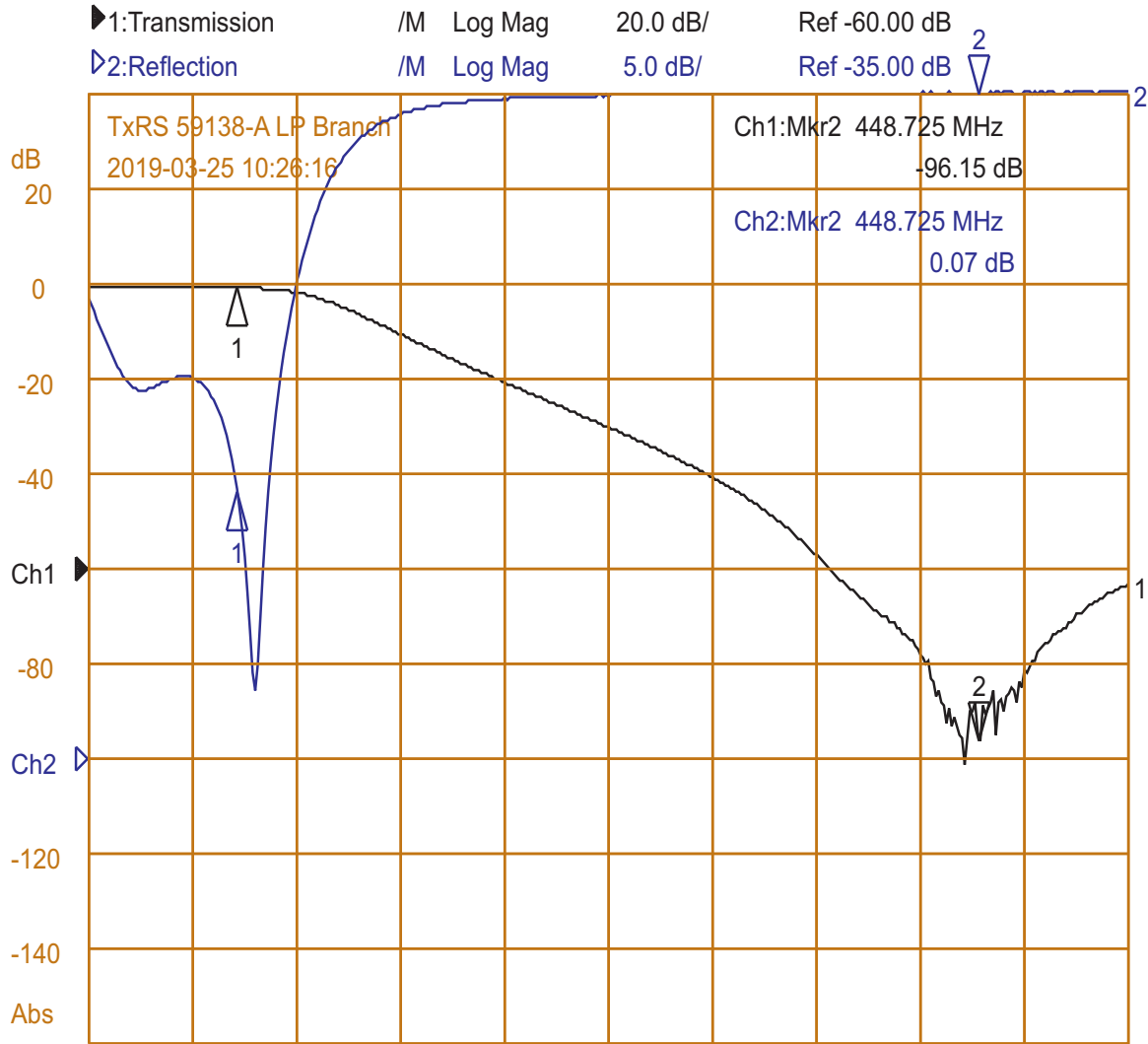


Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

Low Pass Branch Performance



Start 442.725 MHz

Stop 449.725 MHz

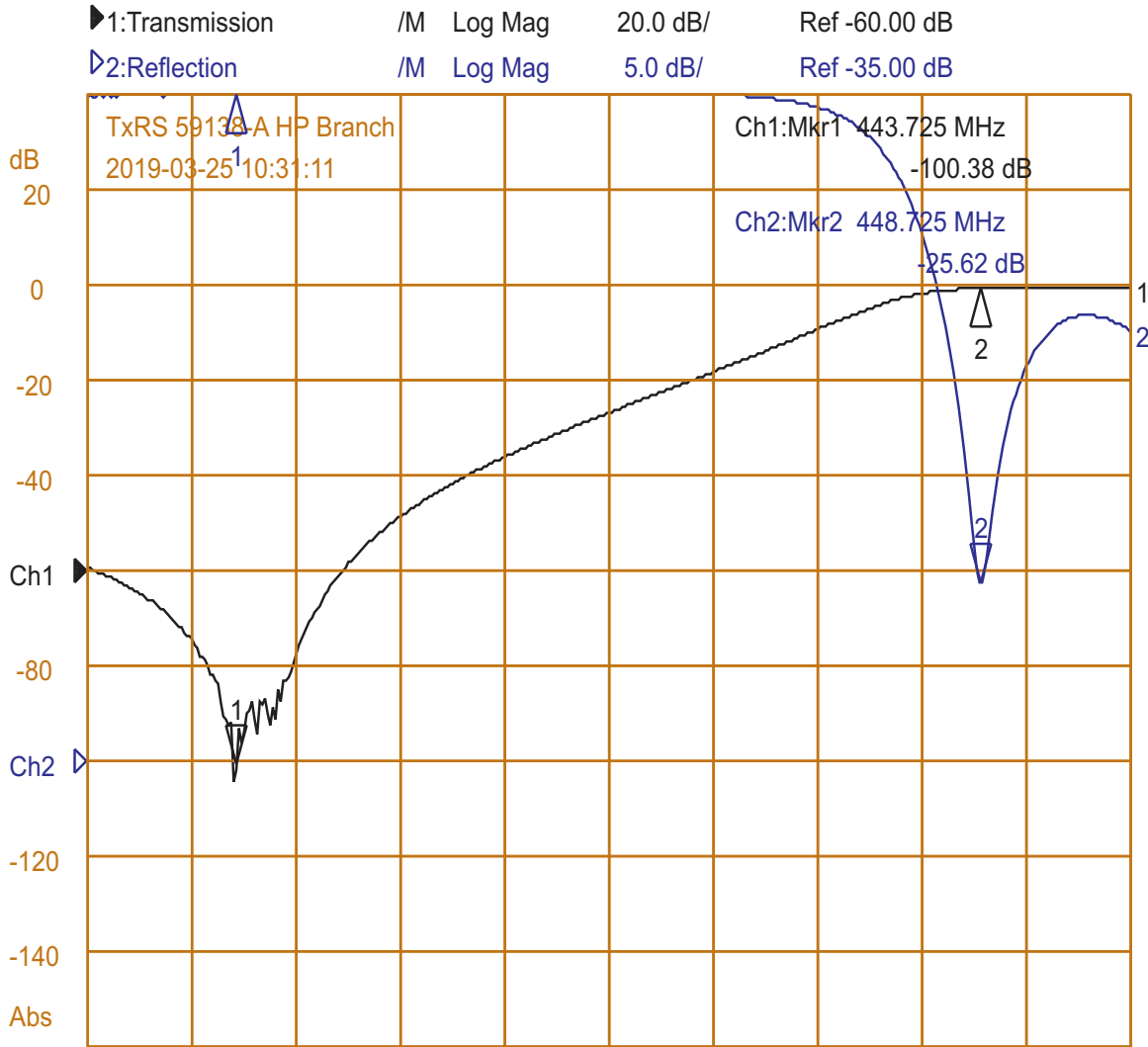
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 443.73 -0.78	1: 443.73 -20.94
2> 448.73 -96.15	2> 448.73 0.07
Isolation: 96.15 dB Insertion Loss: 0.78 dB	Return Loss: 20.94 dB VSWR: 1.197:1 Match Efficiency 99.195%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

High Pass Branch Performance



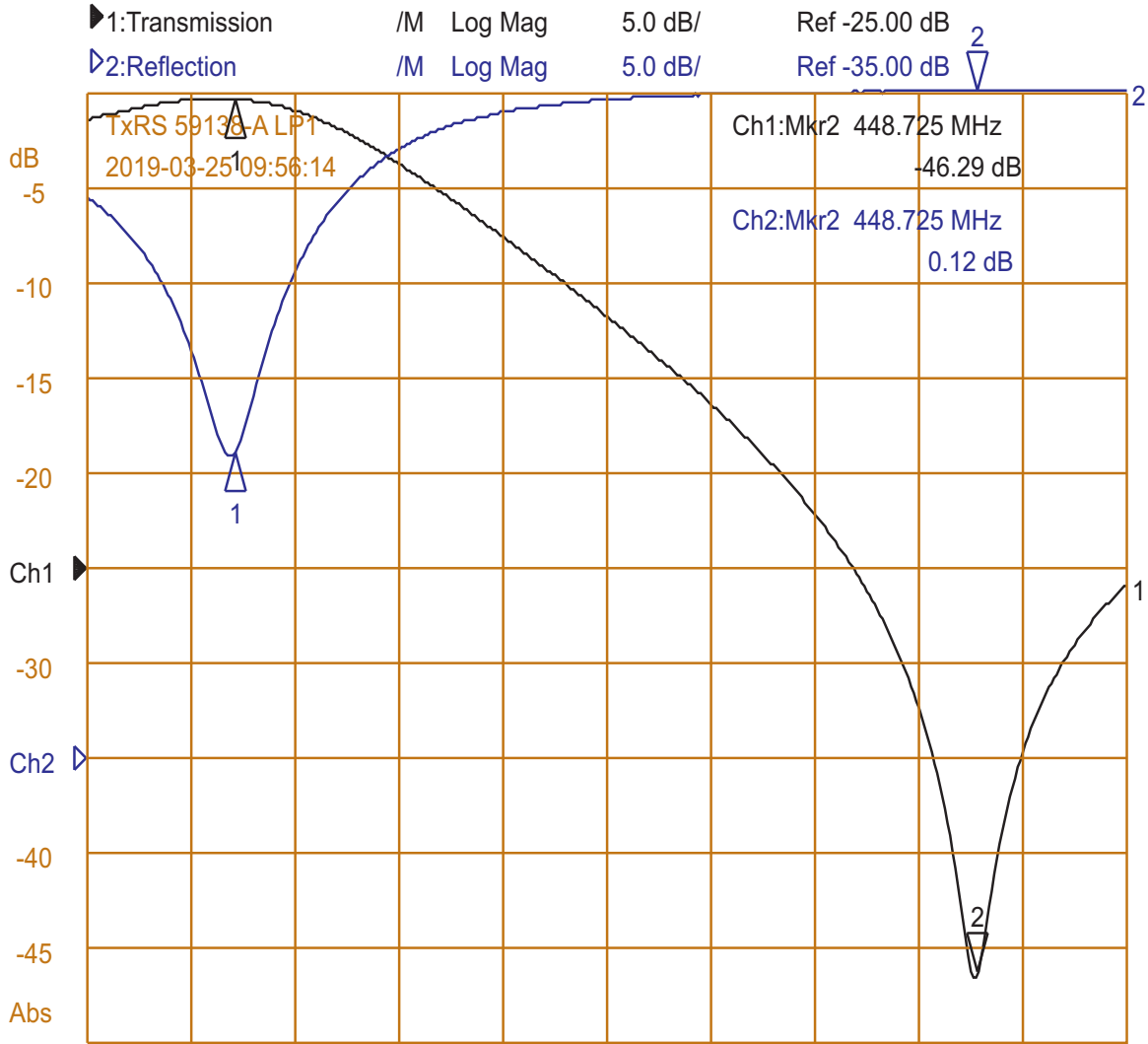
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1> 443.73 -100.38	1: 443.73 -0.04
2: 448.73 -0.78	2> 448.73 -25.62
Isolation: 100.38 dB Insertion Loss: 0.78 dB	Return Loss: 25.62 dB VSWR: 1.111:1 Match Efficiency 99.726%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

Low Pass Cavity #1 Performance



Start 442.725 MHz

Stop 449.725 MHz

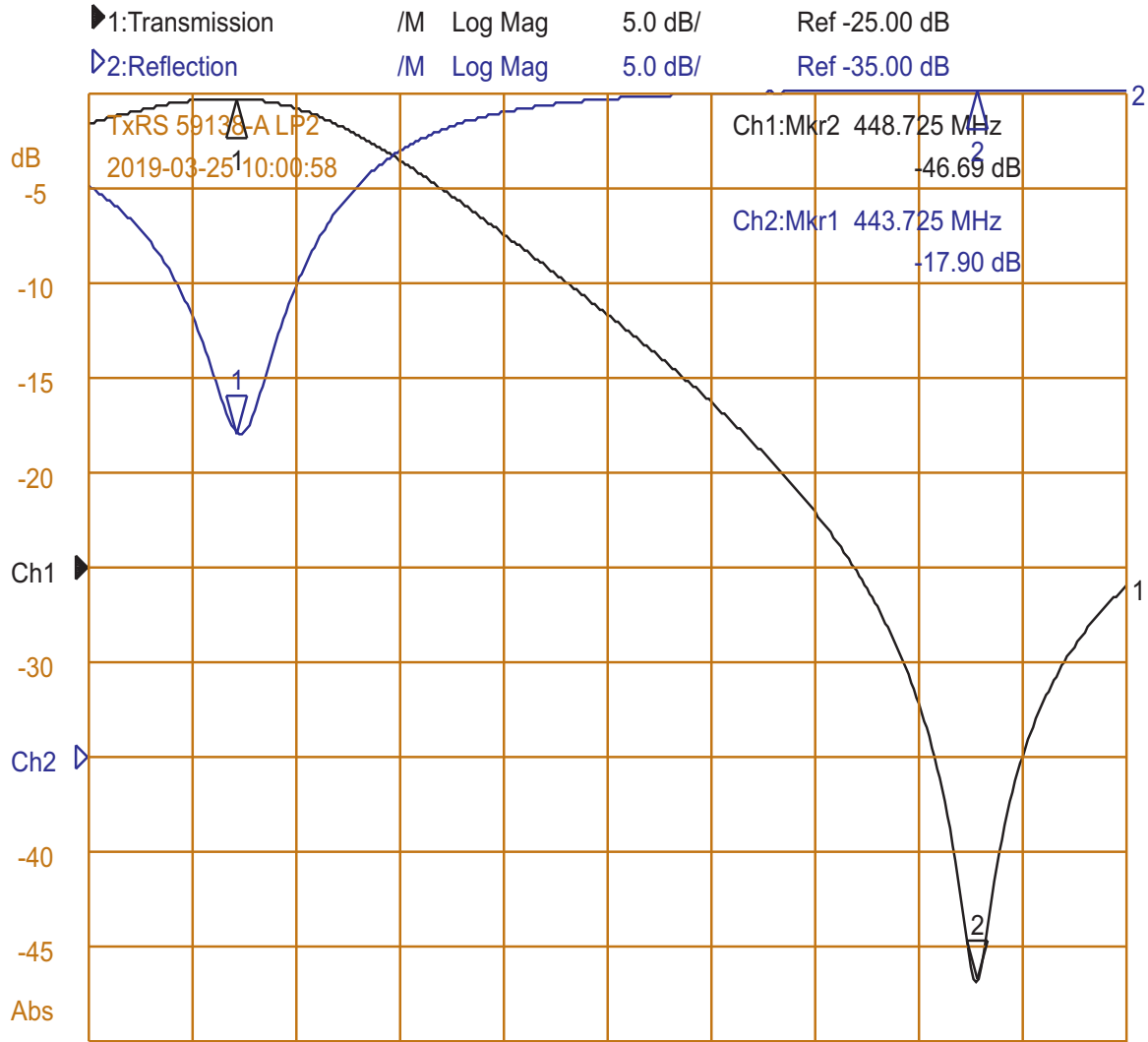
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 443.73 -0.29	1: 443.73 -18.84
2> 448.73 -46.29	2> 448.73 0.12
Isolation: 46.29 dB Insertion Loss: 0.29 dB	Return Loss: 18.84 dB VSWR: 1.258:1 Match Efficiency 98.694%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

Low Pass Cavity #2 Performance



Start 442.725 MHz

Stop 449.725 MHz

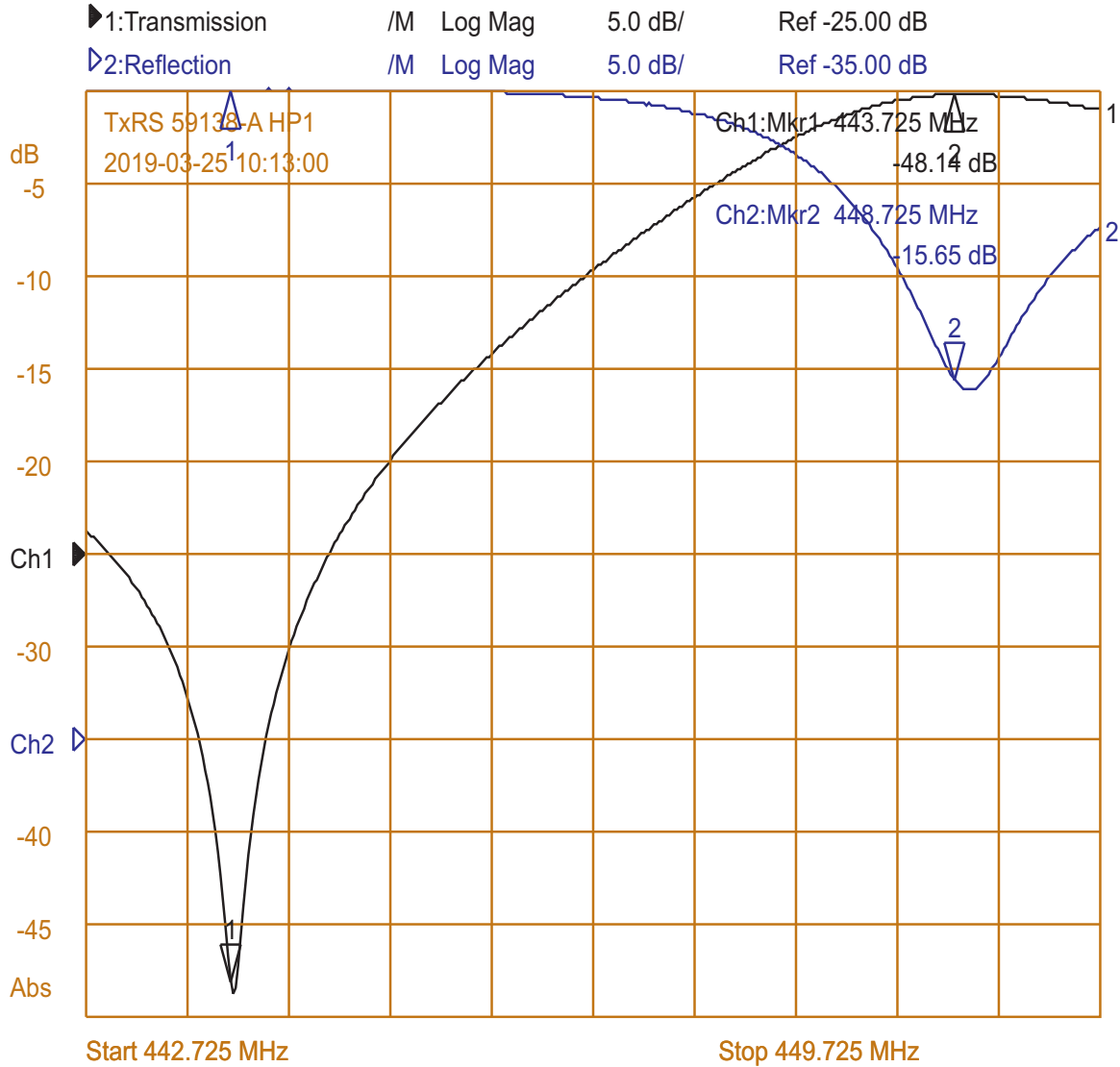
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 443.73 -0.25	1> 443.73 -17.90
2> 448.73 -46.69	2: 448.73 0.17
Isolation: 46.69 dB Insertion Loss: 0.25 dB	Return Loss: 17.90 dB VSWR: 1.292:1 Match Efficiency 98.378%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

High Pass Cavity #1 Performance



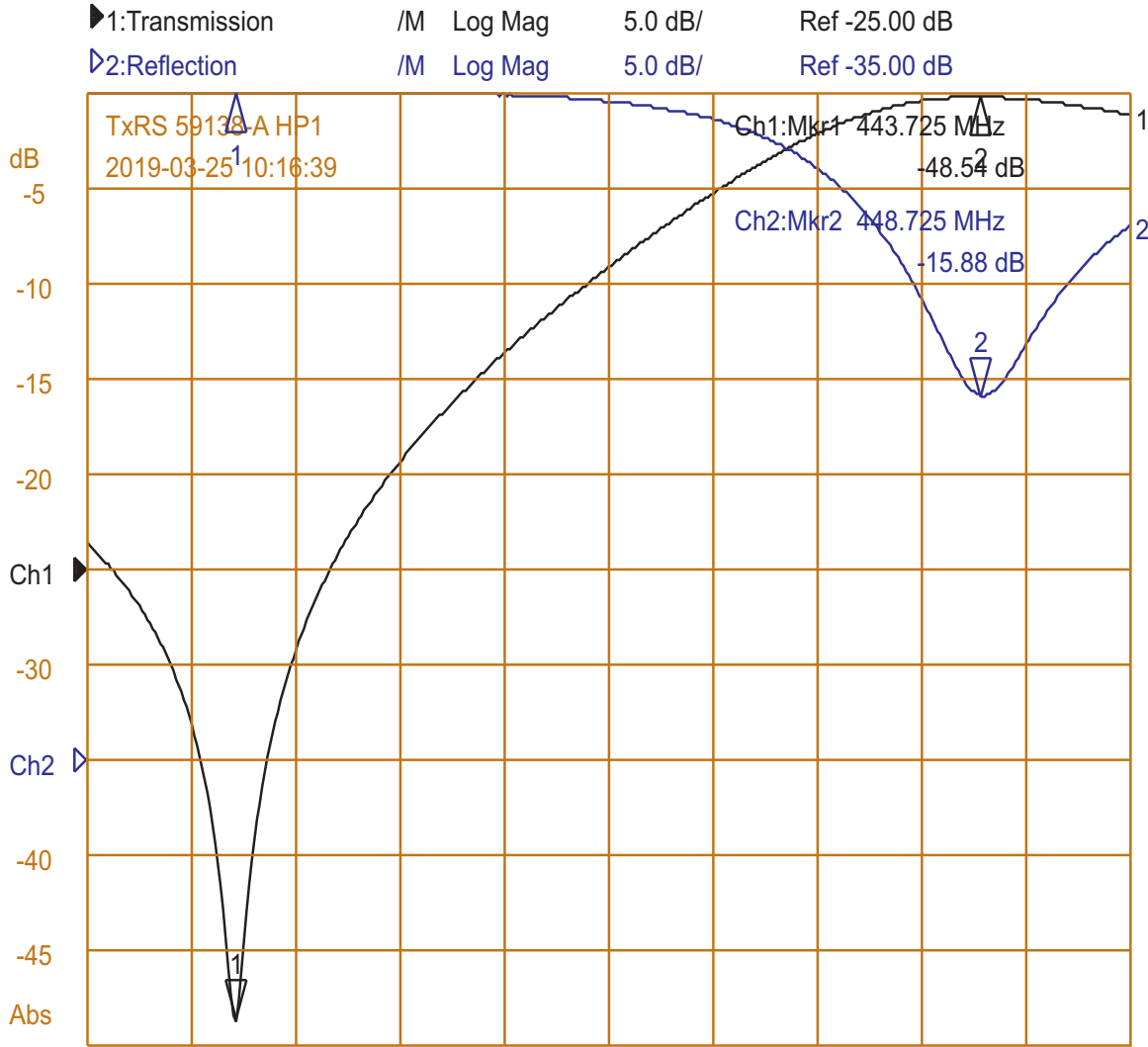
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1> 443.73 -48.14	1: 443.73 0.05
2: 448.73 -0.19	2> 448.73 -15.65
Isolation: 48.14 dB Insertion Loss: 0.18 dB	Return Loss: 15.65 dB VSWR: 1.395:1 Match Efficiency 97.277%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer

Serial Number: 59138-A

3/25/2019 – Tuning and Testing

High Pass Cavity #2 Performance



Start 442.725 MHz

Stop 449.725 MHz

1:Mkr (MHz) dB	2:Mkr (MHz) dB
1> 443.73 -48.54	1: 443.73 0.05
2: 448.73 -0.19	2> 448.73 -15.88
Isolation: 48.54 dB Insertion Loss: 0.19 dB	Return Loss: 15.88 dB VSWR: 1.383:1 Match Efficiency 97.418%

Bird RF / Tx Rx Systems 28-66-02B UHF Duplexer
Serial Number: 59138-A
3/25/2019 – Tuning and Testing

Service Photos



Cavity Numbering Reference

