

Measurement and Evaluation of Tracer 2210/3202 5.8 GHz System Processing Gain

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1. Measurement and Evaluation of Tracer 2210/3202 Processing Gain

To comply with FCC Regulations part 15.247(e), a direct-sequence spread spectrum system must have a processing gain of at least 10 dB. This document details the measurement and calculation of the processing gain of the Tracer 2210/3202 spread spectrum system, marketed by Adtran, Inc.

The processing gain of Tracer 2210/3202 was measured using the CW jamming margin method. Guidelines for this method were obtained from the FCC publication "Guidance on Measurements for Direct Sequence Spread Spectrum Systems" found as Appendix C of FCC 97-114.

Results of this test, found in section 4 of this document, verify that the Tracer 2210/3202 system has between 10.0 dB and 12.0 dB of processing gain, satisfying part 15.247(e) requirements.

2. Test Configuration

Table 1 lists the test hardware model numbers and serial numbers used to measure jamming margin and processing gain.

Table 1 – Hardware Parts List Used for Processing Gain Measurement

Item	Vendor	Model / Part Number
Signal Generator	Rohde & Schwarz	SMT06 5 kHz...6 GHz
BERT	TTC	Fireberd 6000A
RF Combiner	Mini-Circuits	ZFSC-2-10G
10-dB RF Attenuator	narda	4772-10, DC-6 GHz, 2 Watts
Step Attenuator	narda	23877, ser. no. 115, DC-12.4 GHz
RF Power Meter	Hewlett Packard	E4418A single channel

The setup of this test was derived from FCC guidance. Jamming signals were generated with a Rohde and Schwartz signal generator. Bit error rate (BER) was measured with a TTC Fireberd 6000A with the V.35 option card. The BER tester (BERT) was configured as follows:

- 511 Pattern
- Gen Clk = INTF
- Timing Mode = SYNC
- AVG BER and Bit Errors displayed

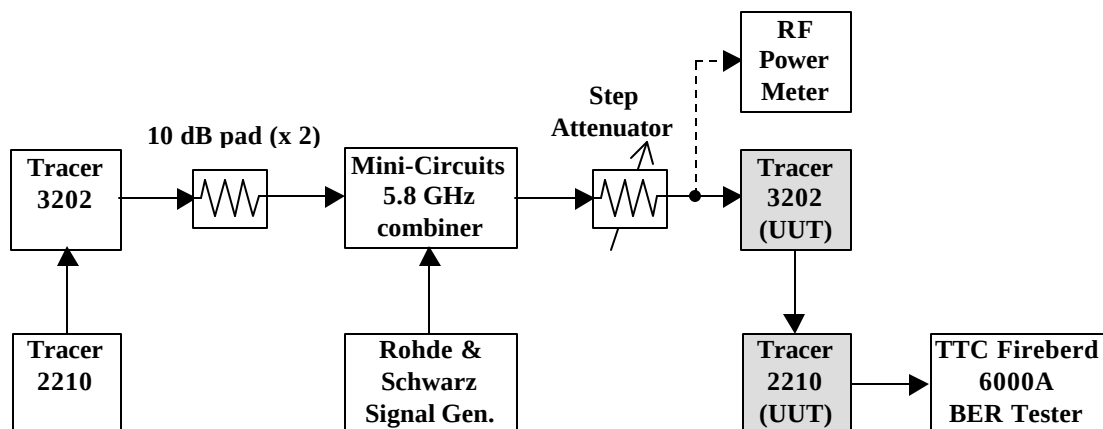


Figure 1 – Processing Gain Setup

To measure the one-way (unidirectional) BER of the unit under test (UUT), the UUT transmitter was disabled so that the channel contained only the jammer signal and the source Tracer 3202 RF spread data spectrum. The source Tracer 2210 was used as the clock master and setup to transmit a 511 pseudo-random sequence. This same pattern was received by the UUT and the pattern bit error rate was measured by the BERT.

3. Test Calibration

The processing gain test setup was calibrated for accurate measurement as follows.

The step attenuator was set to a level of 50 dB so that the input signal into the Tracer 3202 UUT was at a nominal level. Accounting for the RF losses through the 20 dB RF pads, combiner, diplexer and coaxial cable resulted in a measured signal level of -59.9 dB at the input to the UUT.

The jammer signal power was also calibrated for the losses through the combiner, diplexer and coaxial cable.

4. Calculation of Processing Gain

For each 50 kHz increment of the jammer frequency, the jammer power was adjusted to a level that produced a BER of $1E-6$.

The Tracer 3202 spread spectrum receiver incorporates a coherent, differential quadrature phase shift keying (D-QPSK) data modulation scheme, which results in a required signal-to-noise ratio, $(S/N)_o$, of 14.2 dB to produce a BER of $1E-6$.

Discarding the worst 20% of jammer-to-signal (J/S) data points per 15.247 section (e)(2), the lowest remaining J/S ratio was -4.2 dB. The J/S data points are listed in Appendix A.

Using the equation $G_p = (S/N)_o + M_j + L_{sys}$, the resulting G_p value is between $14.2 - 4.2 = 10.0$ dB and $14.2 - 4.2 + 2 = 12.0$ dB, meeting or exceeding the FCC processing gain requirement.

Figure 2 shows a plot of the processing gain of the Tracer 2210/3202 system across the system passband.

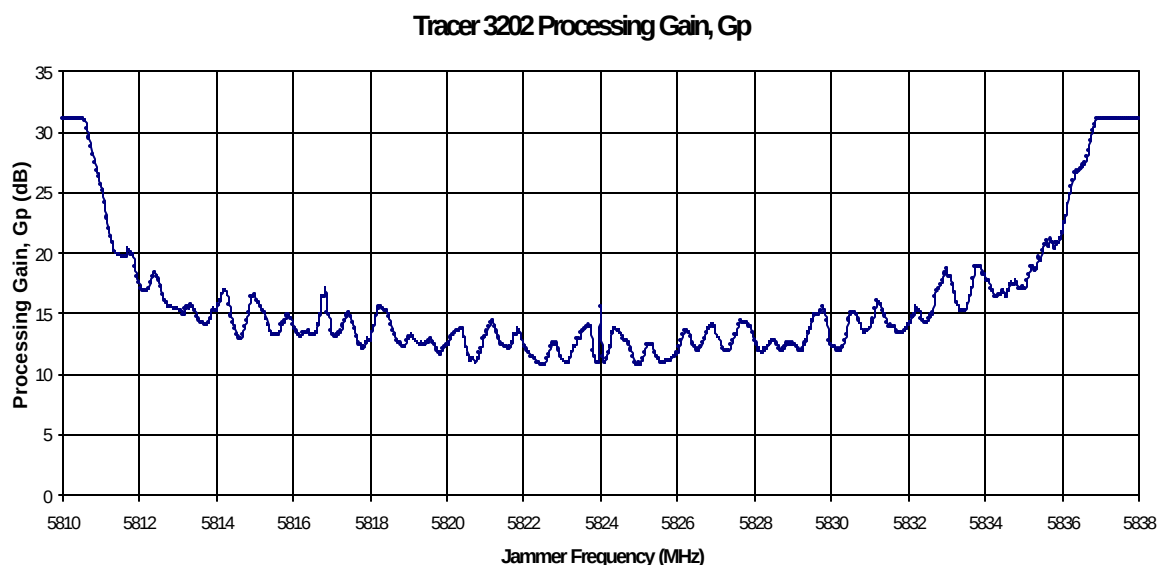


Figure 2 – Tracer 2210/3202 Processing Gain, G_p , vs. Jammer Frequency

Appendix A – Tracer 2210/3202 Jamming Margin Data

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5725.00	-45.0	-59.9	14.9	5727.50	-45.0	-59.9	14.9	5730.00	-45.0	-59.9	14.9
5725.05	-45.0	-59.9	14.9	5727.55	-45.0	-59.9	14.9	5730.05	-45.0	-59.9	14.9
5725.10	-45.0	-59.9	14.9	5727.60	-45.0	-59.9	14.9	5730.10	-45.0	-59.9	14.9
5725.15	-45.0	-59.9	14.9	5727.65	-45.0	-59.9	14.9	5730.15	-45.0	-59.9	14.9
5725.20	-45.0	-59.9	14.9	5727.70	-45.0	-59.9	14.9	5730.20	-45.0	-59.9	14.9
5725.25	-45.0	-59.9	14.9	5727.75	-45.0	-59.9	14.9	5730.25	-45.0	-59.9	14.9
5725.30	-45.0	-59.9	14.9	5727.80	-45.0	-59.9	14.9	5730.30	-45.0	-59.9	14.9
5725.35	-45.0	-59.9	14.9	5727.85	-45.0	-59.9	14.9	5730.35	-45.0	-59.9	14.9
5725.40	-45.0	-59.9	14.9	5727.90	-45.0	-59.9	14.9	5730.40	-45.0	-59.9	14.9
5725.45	-45.0	-59.9	14.9	5727.95	-45.0	-59.9	14.9	5730.45	-45.0	-59.9	14.9
5725.50	-45.0	-59.9	14.9	5728.00	-45.0	-59.9	14.9	5730.50	-45.0	-59.9	14.9
5725.55	-45.0	-59.9	14.9	5728.05	-45.0	-59.9	14.9	5730.55	-45.0	-59.9	14.9
5725.60	-45.0	-59.9	14.9	5728.10	-45.0	-59.9	14.9	5730.60	-45.0	-59.9	14.9
5725.65	-45.0	-59.9	14.9	5728.15	-45.0	-59.9	14.9	5730.65	-45.0	-59.9	14.9
5725.70	-45.0	-59.9	14.9	5728.20	-45.0	-59.9	14.9	5730.70	-45.0	-59.9	14.9
5725.75	-45.0	-59.9	14.9	5728.25	-45.0	-59.9	14.9	5730.75	-45.0	-59.9	14.9
5725.80	-45.0	-59.9	14.9	5728.30	-45.0	-59.9	14.9	5730.80	-45.0	-59.9	14.9
5725.85	-45.0	-59.9	14.9	5728.35	-45.0	-59.9	14.9	5730.85	-45.0	-59.9	14.9
5725.90	-45.0	-59.9	14.9	5728.40	-45.0	-59.9	14.9	5730.90	-45.0	-59.9	14.9
5725.95	-45.0	-59.9	14.9	5728.45	-45.0	-59.9	14.9	5730.95	-45.0	-59.9	14.9
5726.00	-45.0	-59.9	14.9	5728.50	-45.0	-59.9	14.9	5731.00	-45.0	-59.9	14.9
5726.05	-45.0	-59.9	14.9	5728.55	-45.0	-59.9	14.9	5731.05	-45.0	-59.9	14.9
5726.10	-45.0	-59.9	14.9	5728.60	-45.0	-59.9	14.9	5731.10	-45.0	-59.9	14.9
5726.15	-45.0	-59.9	14.9	5728.65	-45.0	-59.9	14.9	5731.15	-45.0	-59.9	14.9
5726.20	-45.0	-59.9	14.9	5728.70	-45.0	-59.9	14.9	5731.20	-45.0	-59.9	14.9
5726.25	-45.0	-59.9	14.9	5728.75	-45.0	-59.9	14.9	5731.25	-45.0	-59.9	14.9
5726.30	-45.0	-59.9	14.9	5728.80	-45.0	-59.9	14.9	5731.30	-45.0	-59.9	14.9
5726.35	-45.0	-59.9	14.9	5728.85	-45.0	-59.9	14.9	5731.35	-45.0	-59.9	14.9
5726.40	-45.0	-59.9	14.9	5728.90	-45.0	-59.9	14.9	5731.40	-45.0	-59.9	14.9
5726.45	-45.0	-59.9	14.9	5728.95	-45.0	-59.9	14.9	5731.45	-45.0	-59.9	14.9
5726.50	-45.0	-59.9	14.9	5729.00	-45.0	-59.9	14.9	5731.50	-45.0	-59.9	14.9
5726.55	-45.0	-59.9	14.9	5729.05	-45.0	-59.9	14.9	5731.55	-45.0	-59.9	14.9
5726.60	-45.0	-59.9	14.9	5729.10	-45.0	-59.9	14.9	5731.60	-45.0	-59.9	14.9
5726.65	-45.0	-59.9	14.9	5729.15	-45.0	-59.9	14.9	5731.65	-45.0	-59.9	14.9
5726.70	-45.0	-59.9	14.9	5729.20	-45.0	-59.9	14.9	5731.70	-45.0	-59.9	14.9
5726.75	-45.0	-59.9	14.9	5729.25	-45.0	-59.9	14.9	5731.75	-45.0	-59.9	14.9
5726.80	-45.0	-59.9	14.9	5729.30	-45.0	-59.9	14.9	5731.80	-45.0	-59.9	14.9
5726.85	-45.0	-59.9	14.9	5729.35	-45.0	-59.9	14.9	5731.85	-45.0	-59.9	14.9
5726.90	-45.0	-59.9	14.9	5729.40	-45.0	-59.9	14.9	5731.90	-45.0	-59.9	14.9
5726.95	-45.0	-59.9	14.9	5729.45	-45.0	-59.9	14.9	5731.95	-45.0	-59.9	14.9
5727.00	-45.0	-59.9	14.9	5729.50	-45.0	-59.9	14.9	5732.00	-45.0	-59.9	14.9
5727.05	-45.0	-59.9	14.9	5729.55	-45.0	-59.9	14.9	5732.05	-45.0	-59.9	14.9
5727.10	-45.0	-59.9	14.9	5729.60	-45.0	-59.9	14.9	5732.10	-45.0	-59.9	14.9
5727.15	-45.0	-59.9	14.9	5729.65	-45.0	-59.9	14.9	5732.15	-45.0	-59.9	14.9
5727.20	-45.0	-59.9	14.9	5729.70	-45.0	-59.9	14.9	5732.20	-45.0	-59.9	14.9
5727.25	-45.0	-59.9	14.9	5729.75	-45.0	-59.9	14.9	5732.25	-45.0	-59.9	14.9
5727.30	-45.0	-59.9	14.9	5729.80	-45.0	-59.9	14.9	5732.30	-45.0	-59.9	14.9
5727.35	-45.0	-59.9	14.9	5729.85	-45.0	-59.9	14.9	5732.35	-45.0	-59.9	14.9
5727.40	-45.0	-59.9	14.9	5729.90	-45.0	-59.9	14.9	5732.40	-45.0	-59.9	14.9
5727.45	-45.0	-59.9	14.9	5729.95	-45.0	-59.9	14.9	5732.45	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5732.50	-45.0	-59.9	14.9	5735.00	-45.0	-59.9	14.9	5737.50	-45.0	-59.9	14.9
5732.55	-45.0	-59.9	14.9	5735.05	-45.0	-59.9	14.9	5737.55	-45.0	-59.9	14.9
5732.60	-45.0	-59.9	14.9	5735.10	-45.0	-59.9	14.9	5737.60	-45.0	-59.9	14.9
5732.65	-45.0	-59.9	14.9	5735.15	-45.0	-59.9	14.9	5737.65	-45.0	-59.9	14.9
5732.70	-45.0	-59.9	14.9	5735.20	-45.0	-59.9	14.9	5737.70	-45.0	-59.9	14.9
5732.75	-45.0	-59.9	14.9	5735.25	-45.0	-59.9	14.9	5737.75	-45.0	-59.9	14.9
5732.80	-45.0	-59.9	14.9	5735.30	-45.0	-59.9	14.9	5737.80	-45.0	-59.9	14.9
5732.85	-45.0	-59.9	14.9	5735.35	-45.0	-59.9	14.9	5737.85	-45.0	-59.9	14.9
5732.90	-45.0	-59.9	14.9	5735.40	-45.0	-59.9	14.9	5737.90	-45.0	-59.9	14.9
5732.95	-45.0	-59.9	14.9	5735.45	-45.0	-59.9	14.9	5737.95	-45.0	-59.9	14.9
5733.00	-45.0	-59.9	14.9	5735.50	-45.0	-59.9	14.9	5738.00	-45.0	-59.9	14.9
5733.05	-45.0	-59.9	14.9	5735.55	-45.0	-59.9	14.9	5738.05	-45.0	-59.9	14.9
5733.10	-45.0	-59.9	14.9	5735.60	-45.0	-59.9	14.9	5738.10	-45.0	-59.9	14.9
5733.15	-45.0	-59.9	14.9	5735.65	-45.0	-59.9	14.9	5738.15	-45.0	-59.9	14.9
5733.20	-45.0	-59.9	14.9	5735.70	-45.0	-59.9	14.9	5738.20	-45.0	-59.9	14.9
5733.25	-45.0	-59.9	14.9	5735.75	-45.0	-59.9	14.9	5738.25	-45.0	-59.9	14.9
5733.30	-45.0	-59.9	14.9	5735.80	-45.0	-59.9	14.9	5738.30	-45.0	-59.9	14.9
5733.35	-45.0	-59.9	14.9	5735.85	-45.0	-59.9	14.9	5738.35	-45.0	-59.9	14.9
5733.40	-45.0	-59.9	14.9	5735.90	-45.0	-59.9	14.9	5738.40	-45.0	-59.9	14.9
5733.45	-45.0	-59.9	14.9	5735.95	-45.0	-59.9	14.9	5738.45	-45.0	-59.9	14.9
5733.50	-45.0	-59.9	14.9	5736.00	-45.0	-59.9	14.9	5738.50	-45.0	-59.9	14.9
5733.55	-45.0	-59.9	14.9	5736.05	-45.0	-59.9	14.9	5738.55	-45.0	-59.9	14.9
5733.60	-45.0	-59.9	14.9	5736.10	-45.0	-59.9	14.9	5738.60	-45.0	-59.9	14.9
5733.65	-45.0	-59.9	14.9	5736.15	-45.0	-59.9	14.9	5738.65	-45.0	-59.9	14.9
5733.70	-45.0	-59.9	14.9	5736.20	-45.0	-59.9	14.9	5738.70	-45.0	-59.9	14.9
5733.75	-45.0	-59.9	14.9	5736.25	-45.0	-59.9	14.9	5738.75	-45.0	-59.9	14.9
5733.80	-45.0	-59.9	14.9	5736.30	-45.0	-59.9	14.9	5738.80	-45.0	-59.9	14.9
5733.85	-45.0	-59.9	14.9	5736.35	-45.0	-59.9	14.9	5738.85	-45.0	-59.9	14.9
5733.90	-45.0	-59.9	14.9	5736.40	-45.0	-59.9	14.9	5738.90	-45.0	-59.9	14.9
5733.95	-45.0	-59.9	14.9	5736.45	-45.0	-59.9	14.9	5738.95	-45.0	-59.9	14.9
5734.00	-45.0	-59.9	14.9	5736.50	-45.0	-59.9	14.9	5739.00	-45.0	-59.9	14.9
5734.05	-45.0	-59.9	14.9	5736.55	-45.0	-59.9	14.9	5739.05	-45.0	-59.9	14.9
5734.10	-45.0	-59.9	14.9	5736.60	-45.0	-59.9	14.9	5739.10	-45.0	-59.9	14.9
5734.15	-45.0	-59.9	14.9	5736.65	-45.0	-59.9	14.9	5739.15	-45.0	-59.9	14.9
5734.20	-45.0	-59.9	14.9	5736.70	-45.0	-59.9	14.9	5739.20	-45.0	-59.9	14.9
5734.25	-45.0	-59.9	14.9	5736.75	-45.0	-59.9	14.9	5739.25	-45.0	-59.9	14.9
5734.30	-45.0	-59.9	14.9	5736.80	-45.0	-59.9	14.9	5739.30	-45.0	-59.9	14.9
5734.35	-45.0	-59.9	14.9	5736.85	-45.0	-59.9	14.9	5739.35	-45.0	-59.9	14.9
5734.40	-45.0	-59.9	14.9	5736.90	-45.0	-59.9	14.9	5739.40	-45.0	-59.9	14.9
5734.45	-45.0	-59.9	14.9	5736.95	-45.0	-59.9	14.9	5739.45	-45.0	-59.9	14.9
5734.50	-45.0	-59.9	14.9	5737.00	-45.0	-59.9	14.9	5739.50	-45.0	-59.9	14.9
5734.55	-45.0	-59.9	14.9	5737.05	-45.0	-59.9	14.9	5739.55	-45.0	-59.9	14.9
5734.60	-45.0	-59.9	14.9	5737.10	-45.0	-59.9	14.9	5739.60	-45.0	-59.9	14.9
5734.65	-45.0	-59.9	14.9	5737.15	-45.0	-59.9	14.9	5739.65	-45.0	-59.9	14.9
5734.70	-45.0	-59.9	14.9	5737.20	-45.0	-59.9	14.9	5739.70	-45.0	-59.9	14.9
5734.75	-45.0	-59.9	14.9	5737.25	-45.0	-59.9	14.9	5739.75	-45.0	-59.9	14.9
5734.80	-45.0	-59.9	14.9	5737.30	-45.0	-59.9	14.9	5739.80	-45.0	-59.9	14.9
5734.85	-45.0	-59.9	14.9	5737.35	-45.0	-59.9	14.9	5739.85	-45.0	-59.9	14.9
5734.90	-45.0	-59.9	14.9	5737.40	-45.0	-59.9	14.9	5739.90	-45.0	-59.9	14.9
5734.95	-45.0	-59.9	14.9	5737.45	-45.0	-59.9	14.9	5739.95	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5740.00	-45.0	-59.9	14.9	5742.50	-45.0	-59.9	14.9	5745.00	-45.0	-59.9	14.9
5740.05	-45.0	-59.9	14.9	5742.55	-45.0	-59.9	14.9	5745.05	-45.0	-59.9	14.9
5740.10	-45.0	-59.9	14.9	5742.60	-45.0	-59.9	14.9	5745.10	-45.0	-59.9	14.9
5740.15	-45.0	-59.9	14.9	5742.65	-45.0	-59.9	14.9	5745.15	-45.0	-59.9	14.9
5740.20	-45.0	-59.9	14.9	5742.70	-45.0	-59.9	14.9	5745.20	-45.0	-59.9	14.9
5740.25	-45.0	-59.9	14.9	5742.75	-45.0	-59.9	14.9	5745.25	-45.0	-59.9	14.9
5740.30	-45.0	-59.9	14.9	5742.80	-45.0	-59.9	14.9	5745.30	-45.0	-59.9	14.9
5740.35	-45.0	-59.9	14.9	5742.85	-45.0	-59.9	14.9	5745.35	-45.0	-59.9	14.9
5740.40	-45.0	-59.9	14.9	5742.90	-45.0	-59.9	14.9	5745.40	-45.0	-59.9	14.9
5740.45	-45.0	-59.9	14.9	5742.95	-45.0	-59.9	14.9	5745.45	-45.0	-59.9	14.9
5740.50	-45.0	-59.9	14.9	5743.00	-45.0	-59.9	14.9	5745.50	-45.0	-59.9	14.9
5740.55	-45.0	-59.9	14.9	5743.05	-45.0	-59.9	14.9	5745.55	-45.0	-59.9	14.9
5740.60	-45.0	-59.9	14.9	5743.10	-45.0	-59.9	14.9	5745.60	-45.0	-59.9	14.9
5740.65	-45.0	-59.9	14.9	5743.15	-45.0	-59.9	14.9	5745.65	-45.0	-59.9	14.9
5740.70	-45.0	-59.9	14.9	5743.20	-45.0	-59.9	14.9	5745.70	-45.0	-59.9	14.9
5740.75	-45.0	-59.9	14.9	5743.25	-45.0	-59.9	14.9	5745.75	-45.0	-59.9	14.9
5740.80	-45.0	-59.9	14.9	5743.30	-45.0	-59.9	14.9	5745.80	-45.0	-59.9	14.9
5740.85	-45.0	-59.9	14.9	5743.35	-45.0	-59.9	14.9	5745.85	-45.0	-59.9	14.9
5740.90	-45.0	-59.9	14.9	5743.40	-45.0	-59.9	14.9	5745.90	-45.0	-59.9	14.9
5740.95	-45.0	-59.9	14.9	5743.45	-45.0	-59.9	14.9	5745.95	-45.0	-59.9	14.9
5741.00	-45.0	-59.9	14.9	5743.50	-45.0	-59.9	14.9	5746.00	-45.0	-59.9	14.9
5741.05	-45.0	-59.9	14.9	5743.55	-45.0	-59.9	14.9	5746.05	-45.0	-59.9	14.9
5741.10	-45.0	-59.9	14.9	5743.60	-45.0	-59.9	14.9	5746.10	-45.0	-59.9	14.9
5741.15	-45.0	-59.9	14.9	5743.65	-45.0	-59.9	14.9	5746.15	-45.0	-59.9	14.9
5741.20	-45.0	-59.9	14.9	5743.70	-45.0	-59.9	14.9	5746.20	-45.0	-59.9	14.9
5741.25	-45.0	-59.9	14.9	5743.75	-45.0	-59.9	14.9	5746.25	-45.0	-59.9	14.9
5741.30	-45.0	-59.9	14.9	5743.80	-45.0	-59.9	14.9	5746.30	-45.0	-59.9	14.9
5741.35	-45.0	-59.9	14.9	5743.85	-45.0	-59.9	14.9	5746.35	-45.0	-59.9	14.9
5741.40	-45.0	-59.9	14.9	5743.90	-45.0	-59.9	14.9	5746.40	-45.0	-59.9	14.9
5741.45	-45.0	-59.9	14.9	5743.95	-45.0	-59.9	14.9	5746.45	-45.0	-59.9	14.9
5741.50	-45.0	-59.9	14.9	5744.00	-45.0	-59.9	14.9	5746.50	-45.0	-59.9	14.9
5741.55	-45.0	-59.9	14.9	5744.05	-45.0	-59.9	14.9	5746.55	-45.0	-59.9	14.9
5741.60	-45.0	-59.9	14.9	5744.10	-45.0	-59.9	14.9	5746.60	-45.0	-59.9	14.9
5741.65	-45.0	-59.9	14.9	5744.15	-45.0	-59.9	14.9	5746.65	-45.0	-59.9	14.9
5741.70	-45.0	-59.9	14.9	5744.20	-45.0	-59.9	14.9	5746.70	-45.0	-59.9	14.9
5741.75	-45.0	-59.9	14.9	5744.25	-45.0	-59.9	14.9	5746.75	-45.0	-59.9	14.9
5741.80	-45.0	-59.9	14.9	5744.30	-45.0	-59.9	14.9	5746.80	-45.0	-59.9	14.9
5741.85	-45.0	-59.9	14.9	5744.35	-45.0	-59.9	14.9	5746.85	-45.0	-59.9	14.9
5741.90	-45.0	-59.9	14.9	5744.40	-45.0	-59.9	14.9	5746.90	-45.0	-59.9	14.9
5741.95	-45.0	-59.9	14.9	5744.45	-45.0	-59.9	14.9	5746.95	-45.0	-59.9	14.9
5742.00	-45.0	-59.9	14.9	5744.50	-45.0	-59.9	14.9	5747.00	-45.0	-59.9	14.9
5742.05	-45.0	-59.9	14.9	5744.55	-45.0	-59.9	14.9	5747.05	-45.0	-59.9	14.9
5742.10	-45.0	-59.9	14.9	5744.60	-45.0	-59.9	14.9	5747.10	-45.0	-59.9	14.9
5742.15	-45.0	-59.9	14.9	5744.65	-45.0	-59.9	14.9	5747.15	-45.0	-59.9	14.9
5742.20	-45.0	-59.9	14.9	5744.70	-45.0	-59.9	14.9	5747.20	-45.0	-59.9	14.9
5742.25	-45.0	-59.9	14.9	5744.75	-45.0	-59.9	14.9	5747.25	-45.0	-59.9	14.9
5742.30	-45.0	-59.9	14.9	5744.80	-45.0	-59.9	14.9	5747.30	-45.0	-59.9	14.9
5742.35	-45.0	-59.9	14.9	5744.85	-45.0	-59.9	14.9	5747.35	-45.0	-59.9	14.9
5742.40	-45.0	-59.9	14.9	5744.90	-45.0	-59.9	14.9	5747.40	-45.0	-59.9	14.9
5742.45	-45.0	-59.9	14.9	5744.95	-45.0	-59.9	14.9	5747.45	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5747.50	-45.0	-59.9	14.9	5750.00	-45.0	-59.9	14.9	5752.45	-45.0	-59.9	14.9
5747.55	-45.0	-59.9	14.9	5750.05	-45.0	-59.9	14.9	5752.50	-45.0	-59.9	14.9
5747.60	-45.0	-59.9	14.9	5750.10	-45.0	-59.9	14.9	5752.55	-45.0	-59.9	14.9
5747.65	-45.0	-59.9	14.9	5750.15	-45.0	-59.9	14.9	5752.60	-45.0	-59.9	14.9
5747.70	-45.0	-59.9	14.9	5750.20	-45.0	-59.9	14.9	5752.65	-45.0	-59.9	14.9
5747.75	-45.0	-59.9	14.9	5750.25	-45.0	-59.9	14.9	5752.70	-45.0	-59.9	14.9
5747.80	-45.0	-59.9	14.9	5750.30	-45.0	-59.9	14.9	5752.75	-45.0	-59.9	14.9
5747.85	-45.0	-59.9	14.9	5750.35	-45.0	-59.9	14.9	5752.80	-45.0	-59.9	14.9
5747.90	-45.0	-59.9	14.9	5750.40	-45.0	-59.9	14.9	5752.85	-45.0	-59.9	14.9
5747.95	-45.0	-59.9	14.9	5750.45	-45.0	-59.9	14.9	5752.90	-45.0	-59.9	14.9
5748.00	-45.0	-59.9	14.9	5750.50	-45.0	-59.9	14.9	5752.95	-45.0	-59.9	14.9
5748.05	-45.0	-59.9	14.9	5750.55	-45.0	-59.9	14.9	5753.00	-45.0	-59.9	14.9
5748.10	-45.0	-59.9	14.9	5750.60	-45.0	-59.9	14.9	5753.05	-45.0	-59.9	14.9
5748.15	-45.0	-59.9	14.9	5750.65	-45.0	-59.9	14.9	5753.10	-45.0	-59.9	14.9
5748.20	-45.0	-59.9	14.9	5750.70	-45.0	-59.9	14.9	5753.15	-45.0	-59.9	14.9
5748.25	-45.0	-59.9	14.9	5750.75	-45.0	-59.9	14.9	5753.20	-45.0	-59.9	14.9
5748.30	-45.0	-59.9	14.9	5750.80	-45.0	-59.9	14.9	5753.25	-45.0	-59.9	14.9
5748.35	-45.0	-59.9	14.9	5750.85	-45.0	-59.9	14.9	5753.30	-45.0	-59.9	14.9
5748.40	-45.0	-59.9	14.9	5750.90	-45.0	-59.9	14.9	5753.35	-45.0	-59.9	14.9
5748.45	-45.0	-59.9	14.9	5750.95	-45.0	-59.9	14.9	5753.40	-45.0	-59.9	14.9
5748.50	-45.0	-59.9	14.9	5751.00	-45.0	-59.9	14.9	5753.45	-45.0	-59.9	14.9
5748.55	-45.0	-59.9	14.9	5751.05	-45.0	-59.9	14.9	5753.50	-45.0	-59.9	14.9
5748.60	-45.0	-59.9	14.9	5751.10	-45.0	-59.9	14.9	5753.55	-45.0	-59.9	14.9
5748.65	-45.0	-59.9	14.9	5751.15	-45.0	-59.9	14.9	5753.60	-45.0	-59.9	14.9
5748.70	-45.0	-59.9	14.9	5751.20	-45.0	-59.9	14.9	5753.65	-45.0	-59.9	14.9
5748.75	-45.0	-59.9	14.9	5751.25	-45.0	-59.9	14.9	5753.70	-45.0	-59.9	14.9
5748.80	-45.0	-59.9	14.9	5751.30	-45.0	-59.9	14.9	5753.75	-45.0	-59.9	14.9
5748.85	-45.0	-59.9	14.9	5751.35	-45.0	-59.9	14.9	5753.80	-45.0	-59.9	14.9
5748.90	-45.0	-59.9	14.9	5751.40	-45.0	-59.9	14.9	5753.85	-45.0	-59.9	14.9
5748.95	-45.0	-59.9	14.9	5751.45	-45.0	-59.9	14.9	5753.90	-45.0	-59.9	14.9
5749.00	-45.0	-59.9	14.9	5751.50	-45.0	-59.9	14.9	5753.95	-45.0	-59.9	14.9
5749.05	-45.0	-59.9	14.9	5751.55	-45.0	-59.9	14.9	5754.00	-45.0	-59.9	14.9
5749.10	-45.0	-59.9	14.9	5751.60	-45.0	-59.9	14.9	5754.05	-45.0	-59.9	14.9
5749.15	-45.0	-59.9	14.9	5751.65	-45.0	-59.9	14.9	5754.10	-45.0	-59.9	14.9
5749.20	-45.0	-59.9	14.9	5751.70	-45.0	-59.9	14.9	5754.15	-45.0	-59.9	14.9
5749.25	-45.0	-59.9	14.9	5751.75	-45.0	-59.9	14.9	5754.20	-45.0	-59.9	14.9
5749.30	-45.0	-59.9	14.9	5751.80	-45.0	-59.9	14.9	5754.25	-45.0	-59.9	14.9
5749.35	-45.0	-59.9	14.9	5751.85	-45.0	-59.9	14.9	5754.30	-45.0	-59.9	14.9
5749.40	-45.0	-59.9	14.9	5751.90	-45.0	-59.9	14.9	5754.35	-45.0	-59.9	14.9
5749.45	-45.0	-59.9	14.9	5751.95	-45.0	-59.9	14.9	5754.40	-45.0	-59.9	14.9
5749.50	-45.0	-59.9	14.9	5752.00	-45.0	-59.9	14.9	5754.45	-45.0	-59.9	14.9
5749.55	-45.0	-59.9	14.9	5752.05	-45.0	-59.9	14.9	5754.50	-45.0	-59.9	14.9
5749.60	-45.0	-59.9	14.9	5752.10	-45.0	-59.9	14.9	5754.55	-45.0	-59.9	14.9
5749.65	-45.0	-59.9	14.9	5752.15	-45.0	-59.9	14.9	5754.60	-45.0	-59.9	14.9
5749.70	-45.0	-59.9	14.9	5752.20	-45.0	-59.9	14.9	5754.65	-45.0	-59.9	14.9
5749.75	-45.0	-59.9	14.9	5752.25	-45.0	-59.9	14.9	5754.70	-45.0	-59.9	14.9
5749.80	-45.0	-59.9	14.9	5752.30	-45.0	-59.9	14.9	5754.75	-45.0	-59.9	14.9
5749.85	-45.0	-59.9	14.9	5752.35	-45.0	-59.9	14.9	5754.80	-45.0	-59.9	14.9
5749.90	-45.0	-59.9	14.9	5752.40	-45.0	-59.9	14.9				
5749.95	-45.0	-59.9	14.9								

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5762.05	-45.0	-59.9	14.9	5764.45	-45.0	-59.9	14.9	5766.85	-45.0	-59.9	14.9
5762.10	-45.0	-59.9	14.9	5764.50	-45.0	-59.9	14.9	5766.90	-45.0	-59.9	14.9
5762.15	-45.0	-59.9	14.9	5764.55	-45.0	-59.9	14.9	5766.95	-45.0	-59.9	14.9
5762.20	-45.0	-59.9	14.9	5764.60	-45.0	-59.9	14.9	5767.00	-45.0	-59.9	14.9
5762.25	-45.0	-59.9	14.9	5764.65	-45.0	-59.9	14.9	5767.05	-45.0	-59.9	14.9
5762.30	-45.0	-59.9	14.9	5764.70	-45.0	-59.9	14.9	5767.10	-45.0	-59.9	14.9
5762.35	-45.0	-59.9	14.9	5764.75	-45.0	-59.9	14.9	5767.15	-45.0	-59.9	14.9
5762.40	-45.0	-59.9	14.9	5764.80	-45.0	-59.9	14.9	5767.20	-45.0	-59.9	14.9
5762.45	-45.0	-59.9	14.9	5764.85	-45.0	-59.9	14.9	5767.25	-45.0	-59.9	14.9
5762.50	-45.0	-59.9	14.9	5764.90	-45.0	-59.9	14.9	5767.30	-45.0	-59.9	14.9
5762.55	-45.0	-59.9	14.9	5764.95	-45.0	-59.9	14.9	5767.35	-45.0	-59.9	14.9
5762.60	-45.0	-59.9	14.9	5765.00	-45.0	-59.9	14.9	5767.40	-45.0	-59.9	14.9
5762.65	-45.0	-59.9	14.9	5765.05	-45.0	-59.9	14.9	5767.45	-45.0	-59.9	14.9
5762.70	-45.0	-59.9	14.9	5765.10	-45.0	-59.9	14.9	5767.50	-45.0	-59.9	14.9
5762.75	-45.0	-59.9	14.9	5765.15	-45.0	-59.9	14.9	5767.55	-45.0	-59.9	14.9
5762.80	-45.0	-59.9	14.9	5765.20	-45.0	-59.9	14.9	5767.60	-45.0	-59.9	14.9
5762.85	-45.0	-59.9	14.9	5765.25	-45.0	-59.9	14.9	5767.65	-45.0	-59.9	14.9
5762.90	-45.0	-59.9	14.9	5765.30	-45.0	-59.9	14.9	5767.70	-45.0	-59.9	14.9
5762.95	-45.0	-59.9	14.9	5765.35	-45.0	-59.9	14.9	5767.75	-45.0	-59.9	14.9
5763.00	-45.0	-59.9	14.9	5765.40	-45.0	-59.9	14.9	5767.80	-45.0	-59.9	14.9
5763.05	-45.0	-59.9	14.9	5765.45	-45.0	-59.9	14.9	5767.85	-45.0	-59.9	14.9
5763.10	-45.0	-59.9	14.9	5765.50	-45.0	-59.9	14.9	5767.90	-45.0	-59.9	14.9
5763.15	-45.0	-59.9	14.9	5765.55	-45.0	-59.9	14.9	5767.95	-45.0	-59.9	14.9
5763.20	-45.0	-59.9	14.9	5765.60	-45.0	-59.9	14.9	5768.00	-45.0	-59.9	14.9
5763.25	-45.0	-59.9	14.9	5765.65	-45.0	-59.9	14.9	5768.05	-45.0	-59.9	14.9
5763.30	-45.0	-59.9	14.9	5765.70	-45.0	-59.9	14.9	5768.10	-45.0	-59.9	14.9
5763.35	-45.0	-59.9	14.9	5765.75	-45.0	-59.9	14.9	5768.15	-45.0	-59.9	14.9
5763.40	-45.0	-59.9	14.9	5765.80	-45.0	-59.9	14.9	5768.20	-45.0	-59.9	14.9
5763.45	-45.0	-59.9	14.9	5765.85	-45.0	-59.9	14.9	5768.25	-45.0	-59.9	14.9
5763.50	-45.0	-59.9	14.9	5765.90	-45.0	-59.9	14.9	5768.30	-45.0	-59.9	14.9
5763.55	-45.0	-59.9	14.9	5765.95	-45.0	-59.9	14.9	5768.35	-45.0	-59.9	14.9
5763.60	-45.0	-59.9	14.9	5766.00	-45.0	-59.9	14.9	5768.40	-45.0	-59.9	14.9
5763.65	-45.0	-59.9	14.9	5766.05	-45.0	-59.9	14.9	5768.45	-45.0	-59.9	14.9
5763.70	-45.0	-59.9	14.9	5766.10	-45.0	-59.9	14.9	5768.50	-45.0	-59.9	14.9
5763.75	-45.0	-59.9	14.9	5766.15	-45.0	-59.9	14.9	5768.55	-45.0	-59.9	14.9
5763.80	-45.0	-59.9	14.9	5766.20	-45.0	-59.9	14.9	5768.60	-45.0	-59.9	14.9
5763.85	-45.0	-59.9	14.9	5766.25	-45.0	-59.9	14.9	5768.65	-45.0	-59.9	14.9
5763.90	-45.0	-59.9	14.9	5766.30	-45.0	-59.9	14.9	5768.70	-45.0	-59.9	14.9
5763.95	-45.0	-59.9	14.9	5766.35	-45.0	-59.9	14.9	5768.75	-45.0	-59.9	14.9
5764.00	-45.0	-59.9	14.9	5766.40	-45.0	-59.9	14.9	5768.80	-45.0	-59.9	14.9
5764.05	-45.0	-59.9	14.9	5766.45	-45.0	-59.9	14.9	5768.85	-45.0	-59.9	14.9
5764.10	-45.0	-59.9	14.9	5766.50	-45.0	-59.9	14.9	5768.90	-45.0	-59.9	14.9
5764.15	-45.0	-59.9	14.9	5766.55	-45.0	-59.9	14.9	5768.95	-45.0	-59.9	14.9
5764.20	-45.0	-59.9	14.9	5766.60	-45.0	-59.9	14.9	5769.00	-45.0	-59.9	14.9
5764.25	-45.0	-59.9	14.9	5766.65	-45.0	-59.9	14.9	5769.05	-45.0	-59.9	14.9
5764.30	-45.0	-59.9	14.9	5766.70	-45.0	-59.9	14.9	5769.10	-45.0	-59.9	14.9
5764.35	-45.0	-59.9	14.9	5766.75	-45.0	-59.9	14.9	5769.15	-45.0	-59.9	14.9
5764.40	-45.0	-59.9	14.9	5766.80	-45.0	-59.9	14.9	5769.20	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5769.25	-45.0	-59.9	14.9	5771.65	-45.0	-59.9	14.9	5774.05	-45.0	-59.9	14.9
5769.30	-45.0	-59.9	14.9	5771.70	-45.0	-59.9	14.9	5774.10	-45.0	-59.9	14.9
5769.35	-45.0	-59.9	14.9	5771.75	-45.0	-59.9	14.9	5774.15	-45.0	-59.9	14.9
5769.40	-45.0	-59.9	14.9	5771.80	-45.0	-59.9	14.9	5774.20	-45.0	-59.9	14.9
5769.45	-45.0	-59.9	14.9	5771.85	-45.0	-59.9	14.9	5774.25	-45.0	-59.9	14.9
5769.50	-45.0	-59.9	14.9	5771.90	-45.0	-59.9	14.9	5774.30	-45.0	-59.9	14.9
5769.55	-45.0	-59.9	14.9	5771.95	-45.0	-59.9	14.9	5774.35	-45.0	-59.9	14.9
5769.60	-45.0	-59.9	14.9	5772.00	-45.0	-59.9	14.9	5774.40	-45.0	-59.9	14.9
5769.65	-45.0	-59.9	14.9	5772.05	-45.0	-59.9	14.9	5774.45	-45.0	-59.9	14.9
5769.70	-45.0	-59.9	14.9	5772.10	-45.0	-59.9	14.9	5774.50	-45.0	-59.9	14.9
5769.75	-45.0	-59.9	14.9	5772.15	-45.0	-59.9	14.9	5774.55	-45.0	-59.9	14.9
5769.80	-45.0	-59.9	14.9	5772.20	-45.0	-59.9	14.9	5774.60	-45.0	-59.9	14.9
5769.85	-45.0	-59.9	14.9	5772.25	-45.0	-59.9	14.9	5774.65	-45.0	-59.9	14.9
5769.90	-45.0	-59.9	14.9	5772.30	-45.0	-59.9	14.9	5774.70	-45.0	-59.9	14.9
5769.95	-45.0	-59.9	14.9	5772.35	-45.0	-59.9	14.9	5774.75	-45.0	-59.9	14.9
5770.00	-45.0	-59.9	14.9	5772.40	-45.0	-59.9	14.9	5774.80	-45.0	-59.9	14.9
5770.05	-45.0	-59.9	14.9	5772.45	-45.0	-59.9	14.9	5774.85	-45.0	-59.9	14.9
5770.10	-45.0	-59.9	14.9	5772.50	-45.0	-59.9	14.9	5774.90	-45.0	-59.9	14.9
5770.15	-45.0	-59.9	14.9	5772.55	-45.0	-59.9	14.9	5774.95	-45.0	-59.9	14.9
5770.20	-45.0	-59.9	14.9	5772.60	-45.0	-59.9	14.9	5775.00	-45.0	-59.9	14.9
5770.25	-45.0	-59.9	14.9	5772.65	-45.0	-59.9	14.9	5775.05	-45.0	-59.9	14.9
5770.30	-45.0	-59.9	14.9	5772.70	-45.0	-59.9	14.9	5775.10	-45.0	-59.9	14.9
5770.35	-45.0	-59.9	14.9	5772.75	-45.0	-59.9	14.9	5775.15	-45.0	-59.9	14.9
5770.40	-45.0	-59.9	14.9	5772.80	-45.0	-59.9	14.9	5775.20	-45.0	-59.9	14.9
5770.45	-45.0	-59.9	14.9	5772.85	-45.0	-59.9	14.9	5775.25	-45.0	-59.9	14.9
5770.50	-45.0	-59.9	14.9	5772.90	-45.0	-59.9	14.9	5775.30	-45.0	-59.9	14.9
5770.55	-45.0	-59.9	14.9	5772.95	-45.0	-59.9	14.9	5775.35	-45.0	-59.9	14.9
5770.60	-45.0	-59.9	14.9	5773.00	-45.0	-59.9	14.9	5775.40	-45.0	-59.9	14.9
5770.65	-45.0	-59.9	14.9	5773.05	-45.0	-59.9	14.9	5775.45	-45.0	-59.9	14.9
5770.70	-45.0	-59.9	14.9	5773.10	-45.0	-59.9	14.9	5775.50	-45.0	-59.9	14.9
5770.75	-45.0	-59.9	14.9	5773.15	-45.0	-59.9	14.9	5775.55	-45.0	-59.9	14.9
5770.80	-45.0	-59.9	14.9	5773.20	-45.0	-59.9	14.9	5775.60	-45.0	-59.9	14.9
5770.85	-45.0	-59.9	14.9	5773.25	-45.0	-59.9	14.9	5775.65	-45.0	-59.9	14.9
5770.90	-45.0	-59.9	14.9	5773.30	-45.0	-59.9	14.9	5775.70	-45.0	-59.9	14.9
5770.95	-45.0	-59.9	14.9	5773.35	-45.0	-59.9	14.9	5775.75	-45.0	-59.9	14.9
5771.00	-45.0	-59.9	14.9	5773.40	-45.0	-59.9	14.9	5775.80	-45.0	-59.9	14.9
5771.05	-45.0	-59.9	14.9	5773.45	-45.0	-59.9	14.9	5775.85	-45.0	-59.9	14.9
5771.10	-45.0	-59.9	14.9	5773.50	-45.0	-59.9	14.9	5775.90	-45.0	-59.9	14.9
5771.15	-45.0	-59.9	14.9	5773.55	-45.0	-59.9	14.9	5775.95	-45.0	-59.9	14.9
5771.20	-45.0	-59.9	14.9	5773.60	-45.0	-59.9	14.9	5776.00	-45.0	-59.9	14.9
5771.25	-45.0	-59.9	14.9	5773.65	-45.0	-59.9	14.9	5776.05	-45.0	-59.9	14.9
5771.30	-45.0	-59.9	14.9	5773.70	-45.0	-59.9	14.9	5776.10	-45.0	-59.9	14.9
5771.35	-45.0	-59.9	14.9	5773.75	-45.0	-59.9	14.9	5776.15	-45.0	-59.9	14.9
5771.40	-45.0	-59.9	14.9	5773.80	-45.0	-59.9	14.9	5776.20	-45.0	-59.9	14.9
5771.45	-45.0	-59.9	14.9	5773.85	-45.0	-59.9	14.9	5776.25	-45.0	-59.9	14.9
5771.50	-45.0	-59.9	14.9	5773.90	-45.0	-59.9	14.9	5776.30	-45.0	-59.9	14.9
5771.55	-45.0	-59.9	14.9	5773.95	-45.0	-59.9	14.9	5776.35	-45.0	-59.9	14.9
5771.60	-45.0	-59.9	14.9	5774.00	-45.0	-59.9	14.9	5776.40	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5776.45	-45.0	-59.9	14.9	5778.85	-45.0	-59.9	14.9	5781.25	-45.0	-59.9	14.9
5776.50	-45.0	-59.9	14.9	5778.90	-45.0	-59.9	14.9	5781.30	-45.0	-59.9	14.9
5776.55	-45.0	-59.9	14.9	5778.95	-45.0	-59.9	14.9	5781.35	-45.0	-59.9	14.9
5776.60	-45.0	-59.9	14.9	5779.00	-45.0	-59.9	14.9	5781.40	-45.0	-59.9	14.9
5776.65	-45.0	-59.9	14.9	5779.05	-45.0	-59.9	14.9	5781.45	-45.0	-59.9	14.9
5776.70	-45.0	-59.9	14.9	5779.10	-45.0	-59.9	14.9	5781.50	-45.0	-59.9	14.9
5776.75	-45.0	-59.9	14.9	5779.15	-45.0	-59.9	14.9	5781.55	-45.0	-59.9	14.9
5776.80	-45.0	-59.9	14.9	5779.20	-45.0	-59.9	14.9	5781.60	-45.0	-59.9	14.9
5776.85	-45.0	-59.9	14.9	5779.25	-45.0	-59.9	14.9	5781.65	-45.0	-59.9	14.9
5776.90	-45.0	-59.9	14.9	5779.30	-45.0	-59.9	14.9	5781.70	-45.0	-59.9	14.9
5776.95	-45.0	-59.9	14.9	5779.35	-45.0	-59.9	14.9	5781.75	-45.0	-59.9	14.9
5777.00	-45.0	-59.9	14.9	5779.40	-45.0	-59.9	14.9	5781.80	-45.0	-59.9	14.9
5777.05	-45.0	-59.9	14.9	5779.45	-45.0	-59.9	14.9	5781.85	-45.0	-59.9	14.9
5777.10	-45.0	-59.9	14.9	5779.50	-45.0	-59.9	14.9	5781.90	-45.0	-59.9	14.9
5777.15	-45.0	-59.9	14.9	5779.55	-45.0	-59.9	14.9	5781.95	-45.0	-59.9	14.9
5777.20	-45.0	-59.9	14.9	5779.60	-45.0	-59.9	14.9	5782.00	-45.0	-59.9	14.9
5777.25	-45.0	-59.9	14.9	5779.65	-45.0	-59.9	14.9	5782.05	-45.0	-59.9	14.9
5777.30	-45.0	-59.9	14.9	5779.70	-45.0	-59.9	14.9	5782.10	-45.0	-59.9	14.9
5777.35	-45.0	-59.9	14.9	5779.75	-45.0	-59.9	14.9	5782.15	-45.0	-59.9	14.9
5777.40	-45.0	-59.9	14.9	5779.80	-45.0	-59.9	14.9	5782.20	-45.0	-59.9	14.9
5777.45	-45.0	-59.9	14.9	5779.85	-45.0	-59.9	14.9	5782.25	-45.0	-59.9	14.9
5777.50	-45.0	-59.9	14.9	5779.90	-45.0	-59.9	14.9	5782.30	-45.0	-59.9	14.9
5777.55	-45.0	-59.9	14.9	5779.95	-45.0	-59.9	14.9	5782.35	-45.0	-59.9	14.9
5777.60	-45.0	-59.9	14.9	5780.00	-45.0	-59.9	14.9	5782.40	-45.0	-59.9	14.9
5777.65	-45.0	-59.9	14.9	5780.05	-45.0	-59.9	14.9	5782.45	-45.0	-59.9	14.9
5777.70	-45.0	-59.9	14.9	5780.10	-45.0	-59.9	14.9	5782.50	-45.0	-59.9	14.9
5777.75	-45.0	-59.9	14.9	5780.15	-45.0	-59.9	14.9	5782.55	-45.0	-59.9	14.9
5777.80	-45.0	-59.9	14.9	5780.20	-45.0	-59.9	14.9	5782.60	-45.0	-59.9	14.9
5777.85	-45.0	-59.9	14.9	5780.25	-45.0	-59.9	14.9	5782.65	-45.0	-59.9	14.9
5777.90	-45.0	-59.9	14.9	5780.30	-45.0	-59.9	14.9	5782.70	-45.0	-59.9	14.9
5777.95	-45.0	-59.9	14.9	5780.35	-45.0	-59.9	14.9	5782.75	-45.0	-59.9	14.9
5778.00	-45.0	-59.9	14.9	5780.40	-45.0	-59.9	14.9	5782.80	-45.0	-59.9	14.9
5778.05	-45.0	-59.9	14.9	5780.45	-45.0	-59.9	14.9	5782.85	-45.0	-59.9	14.9
5778.10	-45.0	-59.9	14.9	5780.50	-45.0	-59.9	14.9	5782.90	-45.0	-59.9	14.9
5778.15	-45.0	-59.9	14.9	5780.55	-45.0	-59.9	14.9	5782.95	-45.0	-59.9	14.9
5778.20	-45.0	-59.9	14.9	5780.60	-45.0	-59.9	14.9	5783.00	-45.0	-59.9	14.9
5778.25	-45.0	-59.9	14.9	5780.65	-45.0	-59.9	14.9	5783.05	-45.0	-59.9	14.9
5778.30	-45.0	-59.9	14.9	5780.70	-45.0	-59.9	14.9	5783.10	-45.0	-59.9	14.9
5778.35	-45.0	-59.9	14.9	5780.75	-45.0	-59.9	14.9	5783.15	-45.0	-59.9	14.9
5778.40	-45.0	-59.9	14.9	5780.80	-45.0	-59.9	14.9	5783.20	-45.0	-59.9	14.9
5778.45	-45.0	-59.9	14.9	5780.85	-45.0	-59.9	14.9	5783.25	-45.0	-59.9	14.9
5778.50	-45.0	-59.9	14.9	5780.90	-45.0	-59.9	14.9	5783.30	-45.0	-59.9	14.9
5778.55	-45.0	-59.9	14.9	5780.95	-45.0	-59.9	14.9	5783.35	-45.0	-59.9	14.9
5778.60	-45.0	-59.9	14.9	5781.00	-45.0	-59.9	14.9	5783.40	-45.0	-59.9	14.9
5778.65	-45.0	-59.9	14.9	5781.05	-45.0	-59.9	14.9	5783.45	-45.0	-59.9	14.9
5778.70	-45.0	-59.9	14.9	5781.10	-45.0	-59.9	14.9	5783.50	-45.0	-59.9	14.9
5778.75	-45.0	-59.9	14.9	5781.15	-45.0	-59.9	14.9	5783.55	-45.0	-59.9	14.9
5778.80	-45.0	-59.9	14.9	5781.20	-45.0	-59.9	14.9	5783.60	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5783.65	-45.0	-59.9	14.9	5786.05	-45.0	-59.9	14.9	5788.45	-45.0	-59.9	14.9
5783.70	-45.0	-59.9	14.9	5786.10	-45.0	-59.9	14.9	5788.50	-45.0	-59.9	14.9
5783.75	-45.0	-59.9	14.9	5786.15	-45.0	-59.9	14.9	5788.55	-45.0	-59.9	14.9
5783.80	-45.0	-59.9	14.9	5786.20	-45.0	-59.9	14.9	5788.60	-45.0	-59.9	14.9
5783.85	-45.0	-59.9	14.9	5786.25	-45.0	-59.9	14.9	5788.65	-45.0	-59.9	14.9
5783.90	-45.0	-59.9	14.9	5786.30	-45.0	-59.9	14.9	5788.70	-45.0	-59.9	14.9
5783.95	-45.0	-59.9	14.9	5786.35	-45.0	-59.9	14.9	5788.75	-45.0	-59.9	14.9
5784.00	-45.0	-59.9	14.9	5786.40	-45.0	-59.9	14.9	5788.80	-45.0	-59.9	14.9
5784.05	-45.0	-59.9	14.9	5786.45	-45.0	-59.9	14.9	5788.85	-45.0	-59.9	14.9
5784.10	-45.0	-59.9	14.9	5786.50	-45.0	-59.9	14.9	5788.90	-45.0	-59.9	14.9
5784.15	-45.0	-59.9	14.9	5786.55	-45.0	-59.9	14.9	5788.95	-45.0	-59.9	14.9
5784.20	-45.0	-59.9	14.9	5786.60	-45.0	-59.9	14.9	5789.00	-45.0	-59.9	14.9
5784.25	-45.0	-59.9	14.9	5786.65	-45.0	-59.9	14.9	5789.05	-45.0	-59.9	14.9
5784.30	-45.0	-59.9	14.9	5786.70	-45.0	-59.9	14.9	5789.10	-45.0	-59.9	14.9
5784.35	-45.0	-59.9	14.9	5786.75	-45.0	-59.9	14.9	5789.15	-45.0	-59.9	14.9
5784.40	-45.0	-59.9	14.9	5786.80	-45.0	-59.9	14.9	5789.20	-45.0	-59.9	14.9
5784.45	-45.0	-59.9	14.9	5786.85	-45.0	-59.9	14.9	5789.25	-45.0	-59.9	14.9
5784.50	-45.0	-59.9	14.9	5786.90	-45.0	-59.9	14.9	5789.30	-45.0	-59.9	14.9
5784.55	-45.0	-59.9	14.9	5786.95	-45.0	-59.9	14.9	5789.35	-45.0	-59.9	14.9
5784.60	-45.0	-59.9	14.9	5787.00	-45.0	-59.9	14.9	5789.40	-45.0	-59.9	14.9
5784.65	-45.0	-59.9	14.9	5787.05	-45.0	-59.9	14.9	5789.45	-45.0	-59.9	14.9
5784.70	-45.0	-59.9	14.9	5787.10	-45.0	-59.9	14.9	5789.50	-45.0	-59.9	14.9
5784.75	-45.0	-59.9	14.9	5787.15	-45.0	-59.9	14.9	5789.55	-45.0	-59.9	14.9
5784.80	-45.0	-59.9	14.9	5787.20	-45.0	-59.9	14.9	5789.60	-45.0	-59.9	14.9
5784.85	-45.0	-59.9	14.9	5787.25	-45.0	-59.9	14.9	5789.65	-45.0	-59.9	14.9
5784.90	-45.0	-59.9	14.9	5787.30	-45.0	-59.9	14.9	5789.70	-45.0	-59.9	14.9
5784.95	-45.0	-59.9	14.9	5787.35	-45.0	-59.9	14.9	5789.75	-45.0	-59.9	14.9
5785.00	-45.0	-59.9	14.9	5787.40	-45.0	-59.9	14.9	5789.80	-45.0	-59.9	14.9
5785.05	-45.0	-59.9	14.9	5787.45	-45.0	-59.9	14.9	5789.85	-45.0	-59.9	14.9
5785.10	-45.0	-59.9	14.9	5787.50	-45.0	-59.9	14.9	5789.90	-45.0	-59.9	14.9
5785.15	-45.0	-59.9	14.9	5787.55	-45.0	-59.9	14.9	5789.95	-45.0	-59.9	14.9
5785.20	-45.0	-59.9	14.9	5787.60	-45.0	-59.9	14.9	5790.00	-45.0	-59.9	14.9
5785.25	-45.0	-59.9	14.9	5787.65	-45.0	-59.9	14.9	5790.05	-45.0	-59.9	14.9
5785.30	-45.0	-59.9	14.9	5787.70	-45.0	-59.9	14.9	5790.10	-45.0	-59.9	14.9
5785.35	-45.0	-59.9	14.9	5787.75	-45.0	-59.9	14.9	5790.15	-45.0	-59.9	14.9
5785.40	-45.0	-59.9	14.9	5787.80	-45.0	-59.9	14.9	5790.20	-45.0	-59.9	14.9
5785.45	-45.0	-59.9	14.9	5787.85	-45.0	-59.9	14.9	5790.25	-45.0	-59.9	14.9
5785.50	-45.0	-59.9	14.9	5787.90	-45.0	-59.9	14.9	5790.30	-45.0	-59.9	14.9
5785.55	-45.0	-59.9	14.9	5787.95	-45.0	-59.9	14.9	5790.35	-45.0	-59.9	14.9
5785.60	-45.0	-59.9	14.9	5788.00	-45.0	-59.9	14.9	5790.40	-45.0	-59.9	14.9
5785.65	-45.0	-59.9	14.9	5788.05	-45.0	-59.9	14.9	5790.45	-45.0	-59.9	14.9
5785.70	-45.0	-59.9	14.9	5788.10	-45.0	-59.9	14.9	5790.50	-45.0	-59.9	14.9
5785.75	-45.0	-59.9	14.9	5788.15	-45.0	-59.9	14.9	5790.55	-45.0	-59.9	14.9
5785.80	-45.0	-59.9	14.9	5788.20	-45.0	-59.9	14.9	5790.60	-45.0	-59.9	14.9
5785.85	-45.0	-59.9	14.9	5788.25	-45.0	-59.9	14.9	5790.65	-45.0	-59.9	14.9
5785.90	-45.0	-59.9	14.9	5788.30	-45.0	-59.9	14.9	5790.70	-45.0	-59.9	14.9
5785.95	-45.0	-59.9	14.9	5788.35	-45.0	-59.9	14.9	5790.75	-45.0	-59.9	14.9
5786.00	-45.0	-59.9	14.9	5788.40	-45.0	-59.9	14.9	5790.80	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5790.85	-45.0	-59.9	14.9	5793.25	-45.0	-59.9	14.9	5795.65	-45.0	-59.9	14.9
5790.90	-45.0	-59.9	14.9	5793.30	-45.0	-59.9	14.9	5795.70	-45.0	-59.9	14.9
5790.95	-45.0	-59.9	14.9	5793.35	-45.0	-59.9	14.9	5795.75	-45.0	-59.9	14.9
5791.00	-45.0	-59.9	14.9	5793.40	-45.0	-59.9	14.9	5795.80	-45.0	-59.9	14.9
5791.05	-45.0	-59.9	14.9	5793.45	-45.0	-59.9	14.9	5795.85	-45.0	-59.9	14.9
5791.10	-45.0	-59.9	14.9	5793.50	-45.0	-59.9	14.9	5795.90	-45.0	-59.9	14.9
5791.15	-45.0	-59.9	14.9	5793.55	-45.0	-59.9	14.9	5795.95	-45.0	-59.9	14.9
5791.20	-45.0	-59.9	14.9	5793.60	-45.0	-59.9	14.9	5796.00	-45.0	-59.9	14.9
5791.25	-45.0	-59.9	14.9	5793.65	-45.0	-59.9	14.9	5796.05	-45.0	-59.9	14.9
5791.30	-45.0	-59.9	14.9	5793.70	-45.0	-59.9	14.9	5796.10	-45.0	-59.9	14.9
5791.35	-45.0	-59.9	14.9	5793.75	-45.0	-59.9	14.9	5796.15	-45.0	-59.9	14.9
5791.40	-45.0	-59.9	14.9	5793.80	-45.0	-59.9	14.9	5796.20	-45.0	-59.9	14.9
5791.45	-45.0	-59.9	14.9	5793.85	-45.0	-59.9	14.9	5796.25	-45.0	-59.9	14.9
5791.50	-45.0	-59.9	14.9	5793.90	-45.0	-59.9	14.9	5796.30	-45.0	-59.9	14.9
5791.55	-45.0	-59.9	14.9	5793.95	-45.0	-59.9	14.9	5796.35	-45.0	-59.9	14.9
5791.60	-45.0	-59.9	14.9	5794.00	-45.0	-59.9	14.9	5796.40	-45.0	-59.9	14.9
5791.65	-45.0	-59.9	14.9	5794.05	-45.0	-59.9	14.9	5796.45	-45.0	-59.9	14.9
5791.70	-45.0	-59.9	14.9	5794.10	-45.0	-59.9	14.9	5796.50	-45.0	-59.9	14.9
5791.75	-45.0	-59.9	14.9	5794.15	-45.0	-59.9	14.9	5796.55	-45.0	-59.9	14.9
5791.80	-45.0	-59.9	14.9	5794.20	-45.0	-59.9	14.9	5796.60	-45.0	-59.9	14.9
5791.85	-45.0	-59.9	14.9	5794.25	-45.0	-59.9	14.9	5796.65	-45.0	-59.9	14.9
5791.90	-45.0	-59.9	14.9	5794.30	-45.0	-59.9	14.9	5796.70	-45.0	-59.9	14.9
5791.95	-45.0	-59.9	14.9	5794.35	-45.0	-59.9	14.9	5796.75	-45.0	-59.9	14.9
5792.00	-45.0	-59.9	14.9	5794.40	-45.0	-59.9	14.9	5796.80	-45.0	-59.9	14.9
5792.05	-45.0	-59.9	14.9	5794.45	-45.0	-59.9	14.9	5796.85	-45.0	-59.9	14.9
5792.10	-45.0	-59.9	14.9	5794.50	-45.0	-59.9	14.9	5796.90	-45.0	-59.9	14.9
5792.15	-45.0	-59.9	14.9	5794.55	-45.0	-59.9	14.9	5796.95	-45.0	-59.9	14.9
5792.20	-45.0	-59.9	14.9	5794.60	-45.0	-59.9	14.9	5797.00	-45.0	-59.9	14.9
5792.25	-45.0	-59.9	14.9	5794.65	-45.0	-59.9	14.9	5797.05	-45.0	-59.9	14.9
5792.30	-45.0	-59.9	14.9	5794.70	-45.0	-59.9	14.9	5797.10	-45.0	-59.9	14.9
5792.35	-45.0	-59.9	14.9	5794.75	-45.0	-59.9	14.9	5797.15	-45.0	-59.9	14.9
5792.40	-45.0	-59.9	14.9	5794.80	-45.0	-59.9	14.9	5797.20	-45.0	-59.9	14.9
5792.45	-45.0	-59.9	14.9	5794.85	-45.0	-59.9	14.9	5797.25	-45.0	-59.9	14.9
5792.50	-45.0	-59.9	14.9	5794.90	-45.0	-59.9	14.9	5797.30	-45.0	-59.9	14.9
5792.55	-45.0	-59.9	14.9	5794.95	-45.0	-59.9	14.9	5797.35	-45.0	-59.9	14.9
5792.60	-45.0	-59.9	14.9	5795.00	-45.0	-59.9	14.9	5797.40	-45.0	-59.9	14.9
5792.65	-45.0	-59.9	14.9	5795.05	-45.0	-59.9	14.9	5797.45	-45.0	-59.9	14.9
5792.70	-45.0	-59.9	14.9	5795.10	-45.0	-59.9	14.9	5797.50	-45.0	-59.9	14.9
5792.75	-45.0	-59.9	14.9	5795.15	-45.0	-59.9	14.9	5797.55	-45.0	-59.9	14.9
5792.80	-45.0	-59.9	14.9	5795.20	-45.0	-59.9	14.9	5797.60	-45.0	-59.9	14.9
5792.85	-45.0	-59.9	14.9	5795.25	-45.0	-59.9	14.9	5797.65	-45.0	-59.9	14.9
5792.90	-45.0	-59.9	14.9	5795.30	-45.0	-59.9	14.9	5797.70	-45.0	-59.9	14.9
5792.95	-45.0	-59.9	14.9	5795.35	-45.0	-59.9	14.9	5797.75	-45.0	-59.9	14.9
5793.00	-45.0	-59.9	14.9	5795.40	-45.0	-59.9	14.9	5797.80	-45.0	-59.9	14.9
5793.05	-45.0	-59.9	14.9	5795.45	-45.0	-59.9	14.9	5797.85	-45.0	-59.9	14.9
5793.10	-45.0	-59.9	14.9	5795.50	-45.0	-59.9	14.9	5797.90	-45.0	-59.9	14.9
5793.15	-45.0	-59.9	14.9	5795.55	-45.0	-59.9	14.9	5797.95	-45.0	-59.9	14.9
5793.20	-45.0	-59.9	14.9	5795.60	-45.0	-59.9	14.9	5798.00	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5798.05	-45.0	-59.9	14.9	5800.45	-45.0	-59.9	14.9	5802.85	-45.0	-59.9	14.9
5798.10	-45.0	-59.9	14.9	5800.50	-45.0	-59.9	14.9	5802.90	-45.0	-59.9	14.9
5798.15	-45.0	-59.9	14.9	5800.55	-45.0	-59.9	14.9	5802.95	-45.0	-59.9	14.9
5798.20	-45.0	-59.9	14.9	5800.60	-45.0	-59.9	14.9	5803.00	-45.0	-59.9	14.9
5798.25	-45.0	-59.9	14.9	5800.65	-45.0	-59.9	14.9	5803.05	-45.0	-59.9	14.9
5798.30	-45.0	-59.9	14.9	5800.70	-45.0	-59.9	14.9	5803.10	-45.0	-59.9	14.9
5798.35	-45.0	-59.9	14.9	5800.75	-45.0	-59.9	14.9	5803.15	-45.0	-59.9	14.9
5798.40	-45.0	-59.9	14.9	5800.80	-45.0	-59.9	14.9	5803.20	-45.0	-59.9	14.9
5798.45	-45.0	-59.9	14.9	5800.85	-45.0	-59.9	14.9	5803.25	-45.0	-59.9	14.9
5798.50	-45.0	-59.9	14.9	5800.90	-45.0	-59.9	14.9	5803.30	-45.0	-59.9	14.9
5798.55	-45.0	-59.9	14.9	5800.95	-45.0	-59.9	14.9	5803.35	-45.0	-59.9	14.9
5798.60	-45.0	-59.9	14.9	5801.00	-45.0	-59.9	14.9	5803.40	-45.0	-59.9	14.9
5798.65	-45.0	-59.9	14.9	5801.05	-45.0	-59.9	14.9	5803.45	-45.0	-59.9	14.9
5798.70	-45.0	-59.9	14.9	5801.10	-45.0	-59.9	14.9	5803.50	-45.0	-59.9	14.9
5798.75	-45.0	-59.9	14.9	5801.15	-45.0	-59.9	14.9	5803.55	-45.0	-59.9	14.9
5798.80	-45.0	-59.9	14.9	5801.20	-45.0	-59.9	14.9	5803.60	-45.0	-59.9	14.9
5798.85	-45.0	-59.9	14.9	5801.25	-45.0	-59.9	14.9	5803.65	-45.0	-59.9	14.9
5798.90	-45.0	-59.9	14.9	5801.30	-45.0	-59.9	14.9	5803.70	-45.0	-59.9	14.9
5798.95	-45.0	-59.9	14.9	5801.35	-45.0	-59.9	14.9	5803.75	-45.0	-59.9	14.9
5799.00	-45.0	-59.9	14.9	5801.40	-45.0	-59.9	14.9	5803.80	-45.0	-59.9	14.9
5799.05	-45.0	-59.9	14.9	5801.45	-45.0	-59.9	14.9	5803.85	-45.0	-59.9	14.9
5799.10	-45.0	-59.9	14.9	5801.50	-45.0	-59.9	14.9	5803.90	-45.0	-59.9	14.9
5799.15	-45.0	-59.9	14.9	5801.55	-45.0	-59.9	14.9	5803.95	-45.0	-59.9	14.9
5799.20	-45.0	-59.9	14.9	5801.60	-45.0	-59.9	14.9	5804.00	-45.0	-59.9	14.9
5799.25	-45.0	-59.9	14.9	5801.65	-45.0	-59.9	14.9	5804.05	-45.0	-59.9	14.9
5799.30	-45.0	-59.9	14.9	5801.70	-45.0	-59.9	14.9	5804.10	-45.0	-59.9	14.9
5799.35	-45.0	-59.9	14.9	5801.75	-45.0	-59.9	14.9	5804.15	-45.0	-59.9	14.9
5799.40	-45.0	-59.9	14.9	5801.80	-45.0	-59.9	14.9	5804.20	-45.0	-59.9	14.9
5799.45	-45.0	-59.9	14.9	5801.85	-45.0	-59.9	14.9	5804.25	-45.0	-59.9	14.9
5799.50	-45.0	-59.9	14.9	5801.90	-45.0	-59.9	14.9	5804.30	-45.0	-59.9	14.9
5799.55	-45.0	-59.9	14.9	5801.95	-45.0	-59.9	14.9	5804.35	-45.0	-59.9	14.9
5799.60	-45.0	-59.9	14.9	5802.00	-45.0	-59.9	14.9	5804.40	-45.0	-59.9	14.9
5799.65	-45.0	-59.9	14.9	5802.05	-45.0	-59.9	14.9	5804.45	-45.0	-59.9	14.9
5799.70	-45.0	-59.9	14.9	5802.10	-45.0	-59.9	14.9	5804.50	-45.0	-59.9	14.9
5799.75	-45.0	-59.9	14.9	5802.15	-45.0	-59.9	14.9	5804.55	-45.0	-59.9	14.9
5799.80	-45.0	-59.9	14.9	5802.20	-45.0	-59.9	14.9	5804.60	-45.0	-59.9	14.9
5799.85	-45.0	-59.9	14.9	5802.25	-45.0	-59.9	14.9	5804.65	-45.0	-59.9	14.9
5799.90	-45.0	-59.9	14.9	5802.30	-45.0	-59.9	14.9	5804.70	-45.0	-59.9	14.9
5799.95	-45.0	-59.9	14.9	5802.35	-45.0	-59.9	14.9	5804.75	-45.0	-59.9	14.9
5800.00	-45.0	-59.9	14.9	5802.40	-45.0	-59.9	14.9	5804.80	-45.0	-59.9	14.9
5800.05	-45.0	-59.9	14.9	5802.45	-45.0	-59.9	14.9	5804.85	-45.0	-59.9	14.9
5800.10	-45.0	-59.9	14.9	5802.50	-45.0	-59.9	14.9	5804.90	-45.0	-59.9	14.9
5800.15	-45.0	-59.9	14.9	5802.55	-45.0	-59.9	14.9	5804.95	-45.0	-59.9	14.9
5800.20	-45.0	-59.9	14.9	5802.60	-45.0	-59.9	14.9	5805.00	-45.0	-59.9	14.9
5800.25	-45.0	-59.9	14.9	5802.65	-45.0	-59.9	14.9	5805.05	-45.0	-59.9	14.9
5800.30	-45.0	-59.9	14.9	5802.70	-45.0	-59.9	14.9	5805.10	-45.0	-59.9	14.9
5800.35	-45.0	-59.9	14.9	5802.75	-45.0	-59.9	14.9	5805.15	-45.0	-59.9	14.9
5800.40	-45.0	-59.9	14.9	5802.80	-45.0	-59.9	14.9	5805.20	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5805.25	-45.0	-59.9	14.9	5807.65	-45.0	-59.9	14.9	5810.05	-45.0	-59.9	14.9
5805.30	-45.0	-59.9	14.9	5807.70	-45.0	-59.9	14.9	5810.10	-45.0	-59.9	14.9
5805.35	-45.0	-59.9	14.9	5807.75	-45.0	-59.9	14.9	5810.15	-45.0	-59.9	14.9
5805.40	-45.0	-59.9	14.9	5807.80	-45.0	-59.9	14.9	5810.20	-45.0	-59.9	14.9
5805.45	-45.0	-59.9	14.9	5807.85	-45.0	-59.9	14.9	5810.25	-45.0	-59.9	14.9
5805.50	-45.0	-59.9	14.9	5807.90	-45.0	-59.9	14.9	5810.30	-45.0	-59.9	14.9
5805.55	-45.0	-59.9	14.9	5807.95	-45.0	-59.9	14.9	5810.35	-45.0	-59.9	14.9
5805.60	-45.0	-59.9	14.9	5808.00	-45.0	-59.9	14.9	5810.40	-45.0	-59.9	14.9
5805.65	-45.0	-59.9	14.9	5808.05	-45.0	-59.9	14.9	5810.45	-45.0	-59.9	14.9
5805.70	-45.0	-59.9	14.9	5808.10	-45.0	-59.9	14.9	5810.50	-45.0	-59.9	14.9
5805.75	-45.0	-59.9	14.9	5808.15	-45.0	-59.9	14.9	5810.55	-45.0	-59.9	14.9
5805.80	-45.0	-59.9	14.9	5808.20	-45.0	-59.9	14.9	5810.60	-45.2	-59.9	14.7
5805.85	-45.0	-59.9	14.9	5808.25	-45.0	-59.9	14.9	5810.65	-45.8	-59.9	14.1
5805.90	-45.0	-59.9	14.9	5808.30	-45.0	-59.9	14.9	5810.70	-46.6	-59.9	13.3
5805.95	-45.0	-59.9	14.9	5808.35	-45.0	-59.9	14.9	5810.75	-47.3	-59.9	12.6
5806.00	-45.0	-59.9	14.9	5808.40	-45.0	-59.9	14.9	5810.80	-48.0	-59.9	11.9
5806.05	-45.0	-59.9	14.9	5808.45	-45.0	-59.9	14.9	5810.85	-48.7	-59.9	11.2
5806.10	-45.0	-59.9	14.9	5808.50	-45.0	-59.9	14.9	5810.90	-49.3	-59.9	10.6
5806.15	-45.0	-59.9	14.9	5808.55	-45.0	-59.9	14.9	5810.95	-49.8	-59.9	10.1
5806.20	-45.0	-59.9	14.9	5808.60	-45.0	-59.9	14.9	5811.00	-50.4	-59.9	9.5
5806.25	-45.0	-59.9	14.9	5808.65	-45.0	-59.9	14.9	5811.05	-51.0	-59.9	8.9
5806.30	-45.0	-59.9	14.9	5808.70	-45.0	-59.9	14.9	5811.10	-52.0	-59.9	7.9
5806.35	-45.0	-59.9	14.9	5808.75	-45.0	-59.9	14.9	5811.15	-53.2	-59.9	6.7
5806.40	-45.0	-59.9	14.9	5808.80	-45.0	-59.9	14.9	5811.20	-54.1	-59.9	5.8
5806.45	-45.0	-59.9	14.9	5808.85	-45.0	-59.9	14.9	5811.25	-54.8	-59.9	5.1
5806.50	-45.0	-59.9	14.9	5808.90	-45.0	-59.9	14.9	5811.30	-55.3	-59.9	4.6
5806.55	-45.0	-59.9	14.9	5808.95	-45.0	-59.9	14.9	5811.35	-55.9	-59.9	4.0
5806.60	-45.0	-59.9	14.9	5809.00	-45.0	-59.9	14.9	5811.40	-56.1	-59.9	3.8
5806.65	-45.0	-59.9	14.9	5809.05	-45.0	-59.9	14.9	5811.45	-56.3	-59.9	3.6
5806.70	-45.0	-59.9	14.9	5809.10	-45.0	-59.9	14.9	5811.50	-56.3	-59.9	3.6
5806.75	-45.0	-59.9	14.9	5809.15	-45.0	-59.9	14.9	5811.55	-56.4	-59.9	3.5
5806.80	-45.0	-59.9	14.9	5809.20	-45.0	-59.9	14.9	5811.60	-56.4	-59.9	3.5
5806.85	-45.0	-59.9	14.9	5809.25	-45.0	-59.9	14.9	5811.65	-56.4	-59.9	3.5
5806.90	-45.0	-59.9	14.9	5809.30	-45.0	-59.9	14.9	5811.70	-55.8	-59.9	4.1
5806.95	-45.0	-59.9	14.9	5809.35	-45.0	-59.9	14.9	5811.75	-55.9	-59.9	4.0
5807.00	-45.0	-59.9	14.9	5809.40	-45.0	-59.9	14.9	5811.80	-56.2	-59.9	3.7
5807.05	-45.0	-59.9	14.9	5809.45	-45.0	-59.9	14.9	5811.85	-56.2	-59.9	3.7
5807.10	-45.0	-59.9	14.9	5809.50	-45.0	-59.9	14.9	5811.90	-57.3	-59.9	2.6
5807.15	-45.0	-59.9	14.9	5809.55	-45.0	-59.9	14.9	5811.95	-58.1	-59.9	1.8
5807.20	-45.0	-59.9	14.9	5809.60	-45.0	-59.9	14.9	5812.00	-58.5	-59.9	1.4
5807.25	-45.0	-59.9	14.9	5809.65	-45.0	-59.9	14.9	5812.05	-59.0	-59.9	0.9
5807.30	-45.0	-59.9	14.9	5809.70	-45.0	-59.9	14.9	5812.10	-59.2	-59.9	0.7
5807.35	-45.0	-59.9	14.9	5809.75	-45.0	-59.9	14.9	5812.15	-59.2	-59.9	0.7
5807.40	-45.0	-59.9	14.9	5809.80	-45.0	-59.9	14.9	5812.20	-59.2	-59.9	0.7
5807.45	-45.0	-59.9	14.9	5809.85	-45.0	-59.9	14.9	5812.25	-59.0	-59.9	0.9
5807.50	-45.0	-59.9	14.9	5809.90	-45.0	-59.9	14.9	5812.30	-58.6	-59.9	1.3
5807.55	-45.0	-59.9	14.9	5809.95	-45.0	-59.9	14.9	5812.35	-58.0	-59.9	1.9
5807.60	-45.0	-59.9	14.9	5810.00	-45.0	-59.9	14.9	5812.40	-57.7	-59.9	2.2

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5812.45	-58.0	-59.9	1.9	5814.85	-61.0	-59.9	-1.1	5817.25	-62.6	-59.9	-2.7
5812.50	-58.3	-59.9	1.6	5814.90	-59.7	-59.9	0.2	5817.30	-62.1	-59.9	-2.2
5812.55	-58.9	-59.9	1.0	5814.95	-59.7	-59.9	0.2	5817.35	-61.7	-59.9	-1.8
5812.60	-59.5	-59.9	0.4	5815.00	-59.5	-59.9	0.4	5817.40	-61.3	-59.9	-1.4
5812.65	-60.0	-59.9	-0.1	5815.05	-60.1	-59.9	-0.2	5817.45	-61.1	-59.9	-1.2
5812.70	-60.2	-59.9	-0.3	5815.10	-60.2	-59.9	-0.3	5817.50	-61.4	-59.9	-1.5
5812.75	-60.5	-59.9	-0.6	5815.15	-60.6	-59.9	-0.7	5817.55	-61.8	-59.9	-1.9
5812.80	-60.5	-59.9	-0.6	5815.20	-60.8	-59.9	-0.9	5817.60	-62.3	-59.9	-2.4
5812.85	-60.6	-59.9	-0.7	5815.25	-61.0	-59.9	-1.1	5817.65	-63.0	-59.9	-3.1
5812.90	-60.7	-59.9	-0.8	5815.30	-61.5	-59.9	-1.6	5817.70	-63.6	-59.9	-3.7
5812.95	-60.7	-59.9	-0.8	5815.35	-62.0	-59.9	-2.1	5817.75	-63.7	-59.9	-3.8
5813.00	-60.7	-59.9	-0.8	5815.40	-62.5	-59.9	-2.6	5817.80	-64.0	-59.9	-4.1
5813.05	-60.9	-59.9	-1.0	5815.45	-62.8	-59.9	-2.9	5817.85	-63.9	-59.9	-4.0
5813.10	-60.8	-59.9	-0.9	5815.50	-62.9	-59.9	-3.0	5817.90	-63.5	-59.9	-3.6
5813.15	-61.2	-59.9	-1.3	5815.55	-62.8	-59.9	-2.9	5817.95	-63.2	-59.9	-3.3
5813.20	-60.7	-59.9	-0.8	5815.60	-62.8	-59.9	-2.9	5818.00	-63.3	-59.9	-3.4
5813.25	-60.6	-59.9	-0.7	5815.65	-62.7	-59.9	-2.8	5818.05	-62.7	-59.9	-2.8
5813.30	-60.6	-59.9	-0.7	5815.70	-62.0	-59.9	-2.1	5818.10	-62.2	-59.9	-2.3
5813.35	-60.4	-59.9	-0.5	5815.75	-61.9	-59.9	-2.0	5818.15	-61.4	-59.9	-1.5
5813.40	-60.6	-59.9	-0.7	5815.80	-61.7	-59.9	-1.8	5818.20	-60.7	-59.9	-0.8
5813.45	-60.8	-59.9	-0.9	5815.85	-61.3	-59.9	-1.4	5818.25	-60.6	-59.9	-0.7
5813.50	-61.4	-59.9	-1.5	5815.90	-61.3	-59.9	-1.4	5818.30	-60.6	-59.9	-0.7
5813.55	-61.6	-59.9	-1.7	5815.95	-61.5	-59.9	-1.6	5818.35	-60.7	-59.9	-0.8
5813.60	-61.8	-59.9	-1.9	5816.00	-62.0	-59.9	-2.1	5818.40	-60.9	-59.9	-1.0
5813.65	-61.8	-59.9	-1.9	5816.05	-62.3	-59.9	-2.4	5818.45	-60.9	-59.9	-1.0
5813.70	-62.0	-59.9	-2.1	5816.10	-62.6	-59.9	-2.7	5818.50	-61.4	-59.9	-1.5
5813.75	-62.0	-59.9	-2.1	5816.15	-62.9	-59.9	-3.0	5818.55	-62.0	-59.9	-2.1
5813.80	-61.8	-59.9	-1.9	5816.20	-63.0	-59.9	-3.1	5818.60	-62.5	-59.9	-2.6
5813.85	-61.5	-59.9	-1.6	5816.25	-62.7	-59.9	-2.8	5818.65	-62.8	-59.9	-2.9
5813.90	-60.8	-59.9	-0.9	5816.30	-62.7	-59.9	-2.8	5818.70	-63.3	-59.9	-3.4
5813.95	-60.7	-59.9	-0.8	5816.35	-62.7	-59.9	-2.8	5818.75	-63.5	-59.9	-3.6
5814.00	-60.8	-59.9	-0.9	5816.40	-62.5	-59.9	-2.6	5818.80	-63.6	-59.9	-3.7
5814.05	-60.4	-59.9	-0.5	5816.45	-62.9	-59.9	-3.0	5818.85	-63.8	-59.9	-3.9
5814.10	-60.1	-59.9	-0.2	5816.50	-62.9	-59.9	-3.0	5818.90	-63.9	-59.9	-4.0
5814.15	-59.5	-59.9	0.4	5816.55	-62.8	-59.9	-2.9	5818.95	-63.3	-59.9	-3.4
5814.20	-59.2	-59.9	0.7	5816.60	-62.7	-59.9	-2.8	5819.00	-63.1	-59.9	-3.2
5814.25	-59.2	-59.9	0.7	5816.65	-62.0	-59.9	-2.1	5819.05	-63.0	-59.9	-3.1
5814.30	-59.6	-59.9	0.3	5816.70	-61.3	-59.9	-1.4	5819.10	-62.9	-59.9	-3.0
5814.35	-60.3	-59.9	-0.4	5816.75	-59.8	-59.9	0.1	5819.15	-63.2	-59.9	-3.3
5814.40	-61.3	-59.9	-1.4	5816.80	-59.7	-59.9	0.2	5819.20	-63.4	-59.9	-3.5
5814.45	-61.8	-59.9	-1.9	5816.85	-59.1	-59.9	0.8	5819.25	-63.5	-59.9	-3.6
5814.50	-62.4	-59.9	-2.5	5816.90	-61.0	-59.9	-1.1	5819.30	-63.7	-59.9	-3.8
5814.55	-62.8	-59.9	-2.9	5816.95	-61.2	-59.9	-1.3	5819.35	-63.6	-59.9	-3.7
5814.60	-63.1	-59.9	-3.2	5817.00	-62.5	-59.9	-2.6	5819.40	-63.7	-59.9	-3.8
5814.65	-63.2	-59.9	-3.3	5817.05	-62.8	-59.9	-2.9	5819.45	-63.6	-59.9	-3.7
5814.70	-62.8	-59.9	-2.9	5817.10	-63.0	-59.9	-3.1	5819.50	-63.5	-59.9	-3.6
5814.75	-62.2	-59.9	-2.3	5817.15	-62.9	-59.9	-3.0	5819.55	-63.3	-59.9	-3.4
5814.80	-61.7	-59.9	-1.8	5817.20	-62.7	-59.9	-2.8	5819.60	-63.2	-59.9	-3.3

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5819.65	-63.5	-59.9	-3.6	5822.05	-63.8	-59.9	-3.9	5824.45	-62.5	-59.9	-2.6
5819.70	-63.7	-59.9	-3.8	5822.10	-64.1	-59.9	-4.2	5824.50	-62.6	-59.9	-2.7
5819.75	-64.1	-59.9	-4.2	5822.15	-64.3	-59.9	-4.4	5824.55	-62.8	-59.9	-2.9
5819.80	-64.4	-59.9	-4.5	5822.20	-64.7	-59.9	-4.8	5824.60	-63.2	-59.9	-3.3
5819.85	-64.4	-59.9	-4.5	5822.25	-64.6	-59.9	-4.7	5824.65	-63.3	-59.9	-3.4
5819.90	-64.0	-59.9	-4.1	5822.30	-64.9	-59.9	-5.0	5824.70	-63.3	-59.9	-3.4
5819.95	-63.9	-59.9	-4.0	5822.35	-65.1	-59.9	-5.2	5824.75	-63.6	-59.9	-3.7
5820.00	-63.7	-59.9	-3.8	5822.40	-65.1	-59.9	-5.2	5824.80	-64.1	-59.9	-4.2
5820.05	-63.6	-59.9	-3.7	5822.45	-65.3	-59.9	-5.4	5824.85	-64.7	-59.9	-4.8
5820.10	-63.1	-59.9	-3.2	5822.50	-65.3	-59.9	-5.4	5824.90	-65.2	-59.9	-5.3
5820.15	-62.8	-59.9	-2.9	5822.55	-65.3	-59.9	-5.4	5824.95	-65.3	-59.9	-5.4
5820.20	-62.7	-59.9	-2.8	5822.60	-64.9	-59.9	-5.0	5825.00	-65.2	-59.9	-5.3
5820.25	-62.5	-59.9	-2.6	5822.65	-64.5	-59.9	-4.6	5825.05	-65.3	-59.9	-5.4
5820.30	-62.5	-59.9	-2.6	5822.70	-63.8	-59.9	-3.9	5825.10	-64.8	-59.9	-4.9
5820.35	-62.3	-59.9	-2.4	5822.75	-63.6	-59.9	-3.7	5825.15	-64.4	-59.9	-4.5
5820.40	-62.4	-59.9	-2.5	5822.80	-63.6	-59.9	-3.7	5825.20	-63.7	-59.9	-3.8
5820.45	-63.0	-59.9	-3.1	5822.85	-63.6	-59.9	-3.7	5825.25	-63.7	-59.9	-3.8
5820.50	-63.8	-59.9	-3.9	5822.90	-64.1	-59.9	-4.2	5825.30	-63.7	-59.9	-3.8
5820.55	-64.5	-59.9	-4.6	5822.95	-64.7	-59.9	-4.8	5825.35	-63.7	-59.9	-3.8
5820.60	-65.0	-59.9	-5.1	5823.00	-64.9	-59.9	-5.0	5825.40	-64.3	-59.9	-4.4
5820.65	-64.8	-59.9	-4.9	5823.05	-65.0	-59.9	-5.1	5825.45	-64.7	-59.9	-4.8
5820.70	-64.9	-59.9	-5.0	5823.10	-65.2	-59.9	-5.3	5825.50	-64.9	-59.9	-5.0
5820.75	-65.1	-59.9	-5.2	5823.15	-65.1	-59.9	-5.2	5825.55	-65.1	-59.9	-5.2
5820.80	-64.9	-59.9	-5.0	5823.20	-64.8	-59.9	-4.9	5825.60	-65.1	-59.9	-5.2
5820.85	-64.4	-59.9	-4.5	5823.25	-64.4	-59.9	-4.5	5825.65	-65.1	-59.9	-5.2
5820.90	-64.0	-59.9	-4.1	5823.30	-63.8	-59.9	-3.9	5825.70	-65.0	-59.9	-5.1
5820.95	-63.2	-59.9	-3.3	5823.35	-63.8	-59.9	-3.9	5825.75	-65.0	-59.9	-5.1
5821.00	-63.0	-59.9	-3.1	5823.40	-63.2	-59.9	-3.3	5825.80	-65.0	-59.9	-5.1
5821.05	-62.6	-59.9	-2.7	5823.45	-63.2	-59.9	-3.3	5825.85	-64.8	-59.9	-4.9
5821.10	-62.2	-59.9	-2.3	5823.50	-62.7	-59.9	-2.8	5825.90	-64.7	-59.9	-4.8
5821.15	-61.8	-59.9	-1.9	5823.55	-62.5	-59.9	-2.6	5825.95	-64.5	-59.9	-4.6
5821.20	-61.7	-59.9	-1.8	5823.60	-62.3	-59.9	-2.4	5826.00	-64.4	-59.9	-4.5
5821.25	-62.2	-59.9	-2.3	5823.65	-62.2	-59.9	-2.3	5826.05	-63.9	-59.9	-4.0
5821.30	-62.6	-59.9	-2.7	5823.70	-62.1	-59.9	-2.2	5826.10	-63.3	-59.9	-3.4
5821.35	-63.1	-59.9	-3.2	5823.75	-62.2	-59.9	-2.3	5826.15	-62.8	-59.9	-2.9
5821.40	-63.6	-59.9	-3.7	5823.80	-64.2	-59.9	-4.3	5826.20	-62.5	-59.9	-2.6
5821.45	-63.7	-59.9	-3.8	5823.85	-64.7	-59.9	-4.8	5826.25	-62.5	-59.9	-2.6
5821.50	-63.8	-59.9	-3.9	5823.90	-65.1	-59.9	-5.2	5826.30	-62.7	-59.9	-2.8
5821.55	-63.9	-59.9	-4.0	5823.95	-65.1	-59.9	-5.2	5826.35	-63.0	-59.9	-3.1
5821.60	-64.0	-59.9	-4.1	5824.00	-60.6	-59.9	-0.7	5826.40	-63.6	-59.9	-3.7
5821.65	-63.9	-59.9	-4.0	5824.05	-64.7	-59.9	-4.8	5826.45	-63.8	-59.9	-3.9
5821.70	-63.5	-59.9	-3.6	5824.10	-65.1	-59.9	-5.2	5826.50	-64.1	-59.9	-4.2
5821.75	-62.8	-59.9	-2.9	5824.15	-64.9	-59.9	-5.0	5826.55	-64.1	-59.9	-4.2
5821.80	-62.8	-59.9	-2.9	5824.20	-64.3	-59.9	-4.4	5826.60	-63.8	-59.9	-3.9
5821.85	-62.3	-59.9	-2.4	5824.25	-63.8	-59.9	-3.9	5826.65	-63.5	-59.9	-3.6
5821.90	-62.6	-59.9	-2.7	5824.30	-62.7	-59.9	-2.8	5826.70	-63.2	-59.9	-3.3
5821.95	-63.1	-59.9	-3.2	5824.35	-62.3	-59.9	-2.4	5826.75	-62.7	-59.9	-2.8
5822.00	-63.5	-59.9	-3.6	5824.40	-62.4	-59.9	-2.5	5826.80	-62.3	-59.9	-2.4

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5826.85	-62.2	-59.9	-2.3	5829.25	-64.1	-59.9	-4.2	5831.65	-62.2	-59.9	-2.3
5826.90	-62.0	-59.9	-2.1	5829.30	-63.6	-59.9	-3.7	5831.70	-62.6	-59.9	-2.7
5826.95	-62.1	-59.9	-2.2	5829.35	-63.4	-59.9	-3.5	5831.75	-62.7	-59.9	-2.8
5827.00	-62.7	-59.9	-2.8	5829.40	-62.7	-59.9	-2.8	5831.80	-62.7	-59.9	-2.8
5827.05	-63.0	-59.9	-3.1	5829.45	-62.3	-59.9	-2.4	5831.85	-62.7	-59.9	-2.8
5827.10	-63.2	-59.9	-3.3	5829.50	-61.7	-59.9	-1.8	5831.90	-62.5	-59.9	-2.6
5827.15	-63.7	-59.9	-3.8	5829.55	-61.3	-59.9	-1.4	5831.95	-62.4	-59.9	-2.5
5827.20	-64.0	-59.9	-4.1	5829.60	-61.2	-59.9	-1.3	5832.00	-62.0	-59.9	-2.1
5827.25	-64.2	-59.9	-4.3	5829.65	-61.2	-59.9	-1.3	5832.05	-61.8	-59.9	-1.9
5827.30	-64.2	-59.9	-4.3	5829.70	-61.1	-59.9	-1.2	5832.10	-61.4	-59.9	-1.5
5827.35	-64.2	-59.9	-4.3	5829.75	-60.8	-59.9	-0.9	5832.15	-61.3	-59.9	-1.4
5827.40	-63.7	-59.9	-3.8	5829.80	-60.6	-59.9	-0.7	5832.20	-60.5	-59.9	-0.6
5827.45	-63.4	-59.9	-3.5	5829.85	-61.1	-59.9	-1.2	5832.25	-60.8	-59.9	-0.9
5827.50	-62.8	-59.9	-2.9	5829.90	-61.7	-59.9	-1.8	5832.30	-60.8	-59.9	-0.9
5827.55	-62.8	-59.9	-2.9	5829.95	-63.4	-59.9	-3.5	5832.35	-61.5	-59.9	-1.6
5827.60	-62.0	-59.9	-2.1	5830.00	-63.7	-59.9	-3.8	5832.40	-61.7	-59.9	-1.8
5827.65	-61.7	-59.9	-1.8	5830.05	-63.9	-59.9	-4.0	5832.45	-61.9	-59.9	-2.0
5827.70	-61.9	-59.9	-2.0	5830.10	-63.9	-59.9	-4.0	5832.50	-61.8	-59.9	-1.9
5827.75	-61.9	-59.9	-2.0	5830.15	-64.1	-59.9	-4.2	5832.55	-61.5	-59.9	-1.6
5827.80	-61.9	-59.9	-2.0	5830.20	-64.1	-59.9	-4.2	5832.60	-61.3	-59.9	-1.4
5827.85	-62.1	-59.9	-2.2	5830.25	-64.1	-59.9	-4.2	5832.65	-61.1	-59.9	-1.2
5827.90	-62.2	-59.9	-2.3	5830.30	-63.8	-59.9	-3.9	5832.70	-59.7	-59.9	0.2
5827.95	-62.7	-59.9	-2.8	5830.35	-63.4	-59.9	-3.5	5832.75	-59.2	-59.9	0.7
5828.00	-63.3	-59.9	-3.4	5830.40	-62.8	-59.9	-2.9	5832.80	-59.0	-59.9	0.9
5828.05	-63.6	-59.9	-3.7	5830.45	-61.6	-59.9	-1.7	5832.85	-58.7	-59.9	1.2
5828.10	-64.2	-59.9	-4.3	5830.50	-61.1	-59.9	-1.2	5832.90	-58.4	-59.9	1.5
5828.15	-64.1	-59.9	-4.2	5830.55	-61.1	-59.9	-1.2	5832.95	-57.8	-59.9	2.1
5828.20	-64.3	-59.9	-4.4	5830.60	-61.0	-59.9	-1.1	5833.00	-57.4	-59.9	2.5
5828.25	-64.1	-59.9	-4.2	5830.65	-61.2	-59.9	-1.3	5833.05	-58.1	-59.9	1.8
5828.30	-64.0	-59.9	-4.1	5830.70	-61.6	-59.9	-1.7	5833.10	-58.0	-59.9	1.9
5828.35	-63.8	-59.9	-3.9	5830.75	-61.9	-59.9	-2.0	5833.15	-58.8	-59.9	1.1
5828.40	-63.6	-59.9	-3.7	5830.80	-62.4	-59.9	-2.5	5833.20	-59.4	-59.9	0.5
5828.45	-63.4	-59.9	-3.5	5830.85	-62.7	-59.9	-2.8	5833.25	-60.2	-59.9	-0.3
5828.50	-63.4	-59.9	-3.5	5830.90	-62.6	-59.9	-2.7	5833.30	-60.4	-59.9	-0.5
5828.55	-63.4	-59.9	-3.5	5830.95	-62.5	-59.9	-2.6	5833.35	-60.8	-59.9	-0.9
5828.60	-63.6	-59.9	-3.7	5831.00	-62.3	-59.9	-2.4	5833.40	-60.8	-59.9	-0.9
5828.65	-64.0	-59.9	-4.1	5831.05	-61.9	-59.9	-2.0	5833.45	-60.9	-59.9	-1.0
5828.70	-64.2	-59.9	-4.3	5831.10	-61.6	-59.9	-1.7	5833.50	-60.8	-59.9	-0.9
5828.75	-64.1	-59.9	-4.2	5831.15	-60.7	-59.9	-0.8	5833.55	-60.3	-59.9	-0.4
5828.80	-63.8	-59.9	-3.9	5831.20	-60.1	-59.9	-0.2	5833.60	-59.8	-59.9	0.1
5828.85	-63.6	-59.9	-3.7	5831.25	-60.2	-59.9	-0.3	5833.65	-59.1	-59.9	0.8
5828.90	-63.6	-59.9	-3.7	5831.30	-60.4	-59.9	-0.5	5833.70	-58.2	-59.9	1.7
5828.95	-63.6	-59.9	-3.7	5831.35	-60.9	-59.9	-1.0	5833.75	-57.3	-59.9	2.6
5829.00	-63.6	-59.9	-3.7	5831.40	-61.3	-59.9	-1.4	5833.80	-57.3	-59.9	2.6
5829.05	-63.7	-59.9	-3.8	5831.45	-61.8	-59.9	-1.9	5833.85	-57.3	-59.9	2.6
5829.10	-63.8	-59.9	-3.9	5831.50	-62.2	-59.9	-2.3	5833.90	-57.3	-59.9	2.6
5829.15	-64.1	-59.9	-4.2	5831.55	-62.1	-59.9	-2.2	5833.95	-57.8	-59.9	2.1
5829.20	-64.2	-59.9	-4.3	5831.60	-62.2	-59.9	-2.3	5834.00	-57.9	-59.9	2.0

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5834.05	-58.4	-59.9	1.5	5836.45	-49.3	-59.9	10.6	5838.85	-45.0	-59.9	14.9
5834.10	-58.4	-59.9	1.5	5836.50	-49.1	-59.9	10.8	5838.90	-45.0	-59.9	14.9
5834.15	-59.1	-59.9	0.8	5836.55	-48.9	-59.9	11.0	5838.95	-45.0	-59.9	14.9
5834.20	-59.2	-59.9	0.7	5836.60	-48.7	-59.9	11.2	5839.00	-45.0	-59.9	14.9
5834.25	-59.7	-59.9	0.2	5836.65	-48.2	-59.9	11.7	5839.05	-45.0	-59.9	14.9
5834.30	-59.7	-59.9	0.2	5836.70	-47.6	-59.9	12.3	5839.10	-45.0	-59.9	14.9
5834.35	-59.6	-59.9	0.3	5836.75	-46.8	-59.9	13.1	5839.15	-45.0	-59.9	14.9
5834.40	-59.5	-59.9	0.4	5836.80	-46.0	-59.9	13.9	5839.20	-45.0	-59.9	14.9
5834.45	-59.2	-59.9	0.7	5836.85	-45.5	-59.9	14.4	5839.25	-45.0	-59.9	14.9
5834.50	-59.3	-59.9	0.6	5836.90	-45.0	-59.9	14.9	5839.30	-45.0	-59.9	14.9
5834.55	-59.7	-59.9	0.2	5836.95	-45.0	-59.9	14.9	5839.35	-45.0	-59.9	14.9
5834.60	-59.2	-59.9	0.7	5837.00	-45.0	-59.9	14.9	5839.40	-45.0	-59.9	14.9
5834.65	-58.8	-59.9	1.1	5837.05	-45.0	-59.9	14.9	5839.45	-45.0	-59.9	14.9
5834.70	-58.5	-59.9	1.4	5837.10	-45.0	-59.9	14.9	5839.50	-45.0	-59.9	14.9
5834.75	-58.7	-59.9	1.2	5837.15	-45.0	-59.9	14.9	5839.55	-45.0	-59.9	14.9
5834.80	-58.4	-59.9	1.5	5837.20	-45.0	-59.9	14.9	5839.60	-45.0	-59.9	14.9
5834.85	-58.7	-59.9	1.2	5837.25	-45.0	-59.9	14.9	5839.65	-45.0	-59.9	14.9
5834.90	-59.0	-59.9	0.9	5837.30	-45.0	-59.9	14.9	5839.70	-45.0	-59.9	14.9
5834.95	-59.1	-59.9	0.8	5837.35	-45.0	-59.9	14.9	5839.75	-45.0	-59.9	14.9
5835.00	-58.9	-59.9	1.0	5837.40	-45.0	-59.9	14.9	5839.80	-45.0	-59.9	14.9
5835.05	-59.1	-59.9	0.8	5837.45	-45.0	-59.9	14.9	5839.85	-45.0	-59.9	14.9
5835.10	-58.4	-59.9	1.5	5837.50	-45.0	-59.9	14.9	5839.90	-45.0	-59.9	14.9
5835.15	-57.9	-59.9	2.0	5837.55	-45.0	-59.9	14.9	5839.95	-45.0	-59.9	14.9
5835.20	-57.3	-59.9	2.6	5837.60	-45.0	-59.9	14.9	5840.00	-45.0	-59.9	14.9
5835.25	-57.2	-59.9	2.7	5837.65	-45.0	-59.9	14.9	5840.05	-45.0	-59.9	14.9
5835.30	-57.5	-59.9	2.4	5837.70	-45.0	-59.9	14.9	5840.10	-45.0	-59.9	14.9
5835.35	-57.4	-59.9	2.5	5837.75	-45.0	-59.9	14.9	5840.15	-45.0	-59.9	14.9
5835.40	-56.5	-59.9	3.4	5837.80	-45.0	-59.9	14.9	5840.20	-45.0	-59.9	14.9
5835.45	-56.7	-59.9	3.2	5837.85	-45.0	-59.9	14.9	5840.25	-45.0	-59.9	14.9
5835.50	-55.9	-59.9	4.0	5837.90	-45.0	-59.9	14.9	5840.30	-45.0	-59.9	14.9
5835.55	-55.4	-59.9	4.5	5837.95	-45.0	-59.9	14.9	5840.35	-45.0	-59.9	14.9
5835.60	-55.1	-59.9	4.8	5838.00	-45.0	-59.9	14.9	5840.40	-45.0	-59.9	14.9
5835.65	-55.6	-59.9	4.3	5838.05	-45.0	-59.9	14.9	5840.45	-45.0	-59.9	14.9
5835.70	-55.0	-59.9	4.9	5838.10	-45.0	-59.9	14.9	5840.50	-45.0	-59.9	14.9
5835.75	-55.2	-59.9	4.7	5838.15	-45.0	-59.9	14.9	5840.55	-45.0	-59.9	14.9
5835.80	-55.7	-59.9	4.2	5838.20	-45.0	-59.9	14.9	5840.60	-45.0	-59.9	14.9
5835.85	-55.3	-59.9	4.6	5838.25	-45.0	-59.9	14.9	5840.65	-45.0	-59.9	14.9
5835.90	-55.2	-59.9	4.7	5838.30	-45.0	-59.9	14.9	5840.70	-45.0	-59.9	14.9
5835.95	-54.9	-59.9	5.0	5838.35	-45.0	-59.9	14.9	5840.75	-45.0	-59.9	14.9
5836.00	-54.4	-59.9	5.5	5838.40	-45.0	-59.9	14.9	5840.80	-45.0	-59.9	14.9
5836.05	-53.6	-59.9	6.3	5838.45	-45.0	-59.9	14.9	5840.85	-45.0	-59.9	14.9
5836.10	-53.1	-59.9	6.8	5838.50	-45.0	-59.9	14.9	5840.90	-45.0	-59.9	14.9
5836.15	-52.1	-59.9	7.8	5838.55	-45.0	-59.9	14.9	5840.95	-45.0	-59.9	14.9
5836.20	-51.3	-59.9	8.6	5838.60	-45.0	-59.9	14.9	5841.00	-45.0	-59.9	14.9
5836.25	-50.7	-59.9	9.2	5838.65	-45.0	-59.9	14.9	5841.05	-45.0	-59.9	14.9
5836.30	-50.1	-59.9	9.8	5838.70	-45.0	-59.9	14.9	5841.10	-45.0	-59.9	14.9
5836.35	-49.5	-59.9	10.4	5838.75	-45.0	-59.9	14.9	5841.15	-45.0	-59.9	14.9
5836.40	-49.4	-59.9	10.5	5838.80	-45.0	-59.9	14.9	5841.20	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)	Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5841.25	-45.0	-59.9	14.9	5843.65	-45.0	-59.9	14.9	5846.05	-45.0	-59.9	14.9
5841.30	-45.0	-59.9	14.9	5843.70	-45.0	-59.9	14.9	5846.10	-45.0	-59.9	14.9
5841.35	-45.0	-59.9	14.9	5843.75	-45.0	-59.9	14.9	5846.15	-45.0	-59.9	14.9
5841.40	-45.0	-59.9	14.9	5843.80	-45.0	-59.9	14.9	5846.20	-45.0	-59.9	14.9
5841.45	-45.0	-59.9	14.9	5843.85	-45.0	-59.9	14.9	5846.25	-45.0	-59.9	14.9
5841.50	-45.0	-59.9	14.9	5843.90	-45.0	-59.9	14.9	5846.30	-45.0	-59.9	14.9
5841.55	-45.0	-59.9	14.9	5843.95	-45.0	-59.9	14.9	5846.35	-45.0	-59.9	14.9
5841.60	-45.0	-59.9	14.9	5844.00	-45.0	-59.9	14.9	5846.40	-45.0	-59.9	14.9
5841.65	-45.0	-59.9	14.9	5844.05	-45.0	-59.9	14.9	5846.45	-45.0	-59.9	14.9
5841.70	-45.0	-59.9	14.9	5844.10	-45.0	-59.9	14.9	5846.50	-45.0	-59.9	14.9
5841.75	-45.0	-59.9	14.9	5844.15	-45.0	-59.9	14.9	5846.55	-45.0	-59.9	14.9
5841.80	-45.0	-59.9	14.9	5844.20	-45.0	-59.9	14.9	5846.60	-45.0	-59.9	14.9
5841.85	-45.0	-59.9	14.9	5844.25	-45.0	-59.9	14.9	5846.65	-45.0	-59.9	14.9
5841.90	-45.0	-59.9	14.9	5844.30	-45.0	-59.9	14.9	5846.70	-45.0	-59.9	14.9
5841.95	-45.0	-59.9	14.9	5844.35	-45.0	-59.9	14.9	5846.75	-45.0	-59.9	14.9
5842.00	-45.0	-59.9	14.9	5844.40	-45.0	-59.9	14.9	5846.80	-45.0	-59.9	14.9
5842.05	-45.0	-59.9	14.9	5844.45	-45.0	-59.9	14.9	5846.85	-45.0	-59.9	14.9
5842.10	-45.0	-59.9	14.9	5844.50	-45.0	-59.9	14.9	5846.90	-45.0	-59.9	14.9
5842.15	-45.0	-59.9	14.9	5844.55	-45.0	-59.9	14.9	5846.95	-45.0	-59.9	14.9
5842.20	-45.0	-59.9	14.9	5844.60	-45.0	-59.9	14.9	5847.00	-45.0	-59.9	14.9
5842.25	-45.0	-59.9	14.9	5844.65	-45.0	-59.9	14.9	5847.05	-45.0	-59.9	14.9
5842.30	-45.0	-59.9	14.9	5844.70	-45.0	-59.9	14.9	5847.10	-45.0	-59.9	14.9
5842.35	-45.0	-59.9	14.9	5844.75	-45.0	-59.9	14.9	5847.15	-45.0	-59.9	14.9
5842.40	-45.0	-59.9	14.9	5844.80	-45.0	-59.9	14.9	5847.20	-45.0	-59.9	14.9
5842.45	-45.0	-59.9	14.9	5844.85	-45.0	-59.9	14.9	5847.25	-45.0	-59.9	14.9
5842.50	-45.0	-59.9	14.9	5844.90	-45.0	-59.9	14.9	5847.30	-45.0	-59.9	14.9
5842.55	-45.0	-59.9	14.9	5844.95	-45.0	-59.9	14.9	5847.35	-45.0	-59.9	14.9
5842.60	-45.0	-59.9	14.9	5845.00	-45.0	-59.9	14.9	5847.40	-45.0	-59.9	14.9
5842.65	-45.0	-59.9	14.9	5845.05	-45.0	-59.9	14.9	5847.45	-45.0	-59.9	14.9
5842.70	-45.0	-59.9	14.9	5845.10	-45.0	-59.9	14.9	5847.50	-45.0	-59.9	14.9
5842.75	-45.0	-59.9	14.9	5845.15	-45.0	-59.9	14.9	5847.55	-45.0	-59.9	14.9
5842.80	-45.0	-59.9	14.9	5845.20	-45.0	-59.9	14.9	5847.60	-45.0	-59.9	14.9
5842.85	-45.0	-59.9	14.9	5845.25	-45.0	-59.9	14.9	5847.65	-45.0	-59.9	14.9
5842.90	-45.0	-59.9	14.9	5845.30	-45.0	-59.9	14.9	5847.70	-45.0	-59.9	14.9
5842.95	-45.0	-59.9	14.9	5845.35	-45.0	-59.9	14.9	5847.75	-45.0	-59.9	14.9
5843.00	-45.0	-59.9	14.9	5845.40	-45.0	-59.9	14.9	5847.80	-45.0	-59.9	14.9
5843.05	-45.0	-59.9	14.9	5845.45	-45.0	-59.9	14.9	5847.85	-45.0	-59.9	14.9
5843.10	-45.0	-59.9	14.9	5845.50	-45.0	-59.9	14.9	5847.90	-45.0	-59.9	14.9
5843.15	-45.0	-59.9	14.9	5845.55	-45.0	-59.9	14.9	5847.95	-45.0	-59.9	14.9
5843.20	-45.0	-59.9	14.9	5845.60	-45.0	-59.9	14.9	5848.00	-45.0	-59.9	14.9
5843.25	-45.0	-59.9	14.9	5845.65	-45.0	-59.9	14.9	5848.05	-45.0	-59.9	14.9
5843.30	-45.0	-59.9	14.9	5845.70	-45.0	-59.9	14.9	5848.10	-45.0	-59.9	14.9
5843.35	-45.0	-59.9	14.9	5845.75	-45.0	-59.9	14.9	5848.15	-45.0	-59.9	14.9
5843.40	-45.0	-59.9	14.9	5845.80	-45.0	-59.9	14.9	5848.20	-45.0	-59.9	14.9
5843.45	-45.0	-59.9	14.9	5845.85	-45.0	-59.9	14.9	5848.25	-45.0	-59.9	14.9
5843.50	-45.0	-59.9	14.9	5845.90	-45.0	-59.9	14.9	5848.30	-45.0	-59.9	14.9
5843.55	-45.0	-59.9	14.9	5845.95	-45.0	-59.9	14.9	5848.35	-45.0	-59.9	14.9
5843.60	-45.0	-59.9	14.9	5846.00	-45.0	-59.9	14.9	5848.40	-45.0	-59.9	14.9

Freq (MHz)	J (dB)	S (dB)	J/S (dB)
5848.45	-45.0	-59.9	14.9
5848.50	-45.0	-59.9	14.9
5848.55	-45.0	-59.9	14.9
5848.60	-45.0	-59.9	14.9
5848.65	-45.0	-59.9	14.9
5848.70	-45.0	-59.9	14.9
5848.75	-45.0	-59.9	14.9
5848.80	-45.0	-59.9	14.9
5848.85	-45.0	-59.9	14.9
5848.90	-45.0	-59.9	14.9
5848.95	-45.0	-59.9	14.9
5849.00	-45.0	-59.9	14.9
5849.05	-45.0	-59.9	14.9
5849.10	-45.0	-59.9	14.9
5849.15	-45.0	-59.9	14.9
5849.20	-45.0	-59.9	14.9
5849.25	-45.0	-59.9	14.9
5849.30	-45.0	-59.9	14.9
5849.35	-45.0	-59.9	14.9
5849.40	-45.0	-59.9	14.9
5849.45	-45.0	-59.9	14.9
5849.50	-45.0	-59.9	14.9
5849.55	-45.0	-59.9	14.9
5849.60	-45.0	-59.9	14.9
5849.65	-45.0	-59.9	14.9
5849.70	-45.0	-59.9	14.9
5849.75	-45.0	-59.9	14.9
5849.80	-45.0	-59.9	14.9
5849.85	-45.0	-59.9	14.9
5849.90	-45.0	-59.9	14.9
5849.95	-45.0	-59.9	14.9
5850.00	-45.0	-59.9	14.9