Warranty and Sales Representatives

Integrated Microwave

Assemblies (IMAs)

Warranty

Narda warrants each product of its manufacture to be free from any defect in material and workmanship for a period of one year from date of shipment to, and return by, the original purchaser. In the case of electromechanical RF switches, the aforementioned warranty covers one year or the number of operations, whichever comes first. All warranty returns, however, must first be authorized by a factory office representative.

The limit of liability under this warranty shall be to repair or replace any product, or part thereof, which proves to be defective after inspection by Narda. This warranty shall not apply to any Narda product that has been disassembled, modified, physically or electrically damaged or any product that has been subjected to conditions exceeding the applicable specifications or ratings.

Narda shall not be liable for any direct or consequential injury, loss or damage incurred through the use, or the inability to use, any Narda product.

Narda reserves the right to make design changes to any Narda product without incurring any obligation to make the same changes to previously purchased units.

This warranty is the full extent of obligation and liability assumed by Narda with respect to any and all Narda products. Narda neither makes, nor authorizes any person to make, any other guarantee or warranty concerning Narda products.

Sales Representatives

For Domestic and International Sales Representatives visit the Narda website at:

www.nardamicrowave.com

Click Narda East, go to the "REP" icon and select your area.

(www.nardamicrowave.com/east/reps.php)

If you need additional information or assistance please contact the factory direct at **631-231-1700**.



VSWR vs Return Loss

17.391 1.0 1.208 20.5 1.020 40.0 11.610 1.5 1.196 21.0 1.019 40.5 8.724 2.0 1.184 21.5 1.018 41.0 6.997 2.5 1.173 22.0 1.017 41.5 5.848 3.0 1.162 22.5 1.016 42.0 5.030 3.5 1.152 23.0 1.015 42.5 4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.5 2.323 8.0	VSWR	RETURN LOSS (dB)	VSWR	RETURN LOSS (dB)	VSWR	RETURN LOSS (dB)
8.724 2.0 1.184 21.5 1.018 41.0 6.997 2.5 1.173 22.0 1.017 41.5 5.848 3.0 1.162 22.5 1.016 42.0 5.030 3.5 1.152 23.0 1.015 42.5 4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.0 2.204 8.5 1.088 27.5 1.009 47.0 2.204 8.5 1.088 27.5 1.009 47.0 2.204 8.5	17.391	1.0	1.208	20.5	1.020	40.0
6.997 2.5 1.173 22.0 1.017 41.5 5.848 3.0 1.162 22.5 1.016 42.0 5.030 3.5 1.152 23.0 1.015 42.5 4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.488 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.5 2.100 9.0 1.078 28.5 1.008 48.5 2.100 9.5	11.610	1.5	1.196	21.0	1.019	40.5
5.848 3.0 1.162 22.5 1.016 42.0 5.030 3.5 1.152 23.0 1.015 42.5 4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5	8.724	2.0	1.184	21.5	1.018	41.0
5.030 3.5 1.152 23.0 1.015 42.5 4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.851 10.5	6.997	2.5	1.173	22.0	1.017	41.5
4.419 4.0 1.143 23.5 1.014 43.0 3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5	5.848	3.0	1.162	22.5	1.016	42.0
3.946 4.5 1.135 24.0 1.013 43.5 3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.725 11.5 1.083 31.0 1.006 50.0 1.225 11.5 <td>5.030</td> <td>3.5</td> <td>1.152</td> <td>23.0</td> <td>1.015</td> <td>42.5</td>	5.030	3.5	1.152	23.0	1.015	42.5
3.570 5.0 1.127 24.5 1.013 44.0 3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.5 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.225 11.5 <td>4.419</td> <td>4.0</td> <td>1.143</td> <td>23.5</td> <td>1.014</td> <td>43.0</td>	4.419	4.0	1.143	23.5	1.014	43.0
3.263 5.5 1.119 25.0 1.012 44.5 3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.725 11.5 1.058 31.0 1.006 50.0 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 <td>3.946</td> <td>4.5</td> <td>1.135</td> <td>24.0</td> <td>1.013</td> <td>43.5</td>	3.946	4.5	1.135	24.0	1.013	43.5
3.010 6.0 1.112 25.5 1.011 45.0 2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 50.0 1.577 13.0 </td <td>3.570</td> <td>5.0</td> <td>1.127</td> <td>24.5</td> <td>1.013</td> <td>44.0</td>	3.570	5.0	1.127	24.5	1.013	44.0
2.796 6.5 1.106 26.0 1.011 45.5 2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.577 13.0 1.049 32.5 1.005 52.5 1.499 14.0<	3.263	5.5	1.119	25.0	1.012	44.5
2.615 7.0 1.099 26.5 1.010 46.0 2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 48.0 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.671 12.0 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.577 13.0 1.049 32.5 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5	3.010	6.0	1.112	25.5	1.011	45.0
2.458 7.5 1.094 27.0 1.010 46.5 2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.	2.796	6.5	1.106	26.0	1.011	45.5
2.323 8.0 1.088 27.5 1.009 47.0 2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0	2.615	7.0	1.099	26.5	1.010	46.0
2.204 8.5 1.083 28.0 1.008 47.5 2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.377 16.0	2.458	7.5	1.094	27.0	1.010	46.5
2.100 9.0 1.078 28.5 1.008 48.0 2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404	2.323	8.0	1.088	27.5	1.009	47.0
2.007 9.5 1.074 29.0 1.008 48.5 1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 <td< td=""><td>2.204</td><td>8.5</td><td>1.083</td><td>28.0</td><td>1.008</td><td>47.5</td></td<>	2.204	8.5	1.083	28.0	1.008	47.5
1.925 10.0 1.069 29.5 1.007 49.0 1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.329 <t< td=""><td>2.100</td><td>9.0</td><td>1.078</td><td>28.5</td><td>1.008</td><td>48.0</td></t<>	2.100	9.0	1.078	28.5	1.008	48.0
1.851 10.5 1.065 30.0 1.007 49.5 1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.329 17.0 1.030 36.5 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.5 1.253 19.0 </td <td>2.007</td> <td>9.5</td> <td>1.074</td> <td>29.0</td> <td>1.008</td> <td>48.5</td>	2.007	9.5	1.074	29.0	1.008	48.5
1.785 11.0 1.062 30.5 1.006 50.0 1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.5 1.253 19.0 </td <td>1.925</td> <td>10.0</td> <td>1.069</td> <td>29.5</td> <td>1.007</td> <td>49.0</td>	1.925	10.0	1.069	29.5	1.007	49.0
1.725 11.5 1.058 31.0 1.006 50.5 1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.5 1.253 19.0 </td <td>1.851</td> <td>10.5</td> <td>1.065</td> <td>30.0</td> <td>1.007</td> <td>49.5</td>	1.851	10.5	1.065	30.0	1.007	49.5
1.671 12.0 1.055 31.5 1.006 51.0 1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 </td <td>1.785</td> <td>11.0</td> <td>1.062</td> <td>30.5</td> <td>1.006</td> <td>50.0</td>	1.785	11.0	1.062	30.5	1.006	50.0
1.622 12.5 1.052 32.0 1.005 51.5 1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.725	11.5	1.058	31.0	1.006	50.5
1.577 13.0 1.049 32.5 1.005 52.0 1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.671	12.0	1.055	31.5	1.006	51.0
1.536 13.5 1.046 33.0 1.005 52.5 1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.622	12.5	1.052	32.0	1.005	51.5
1.499 14.0 1.043 33.5 1.004 53.0 1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.577	13.0	1.049	32.5	1.005	52.0
1.464 14.5 1.041 34.0 1.004 53.5 1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.536	13.5	1.046	33.0	1.005	52.5
1.433 15.0 1.038 34.5 1.004 54.0 1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.499	14.0	1.043	33.5	1.004	53.0
1.404 15.5 1.036 35.0 1.004 54.5 1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.464	14.5	1.041	34.0	1.004	53.5
1.377 16.0 1.034 35.5 1.004 55.0 1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.433	15.0	1.038	34.5	1.004	54.0
1.352 16.5 1.032 36.0 1.003 55.5 1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.404	15.5	1.036	35.0	1.004	54.5
1.329 17.0 1.030 36.5 1.003 56.0 1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.377	16.0	1.034	35.5	1.004	55.0
1.308 17.5 1.029 37.0 1.003 56.5 1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.352	16.5	1.032	36.0	1.003	55.5
1.288 18.0 1.027 37.5 1.003 57.0 1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.329	17.0	1.030	36.5	1.003	56.0
1.270 18.5 1.025 38.0 1.003 57.5 1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.308	17.5	1.029	37.0	1.003	56.5
1.253 19.0 1.024 38.5 1.003 58.0 1.237 19.5 1.023 39.0 1.002 58.5	1.288	18.0	1.027	37.5	1.003	57.0
1.237 19.5 1.023 39.0 1.002 58.5	1.270	18.5	1.025	38.0	1.003	57.5
	1.253	19.0	1.024	38.5	1.003	58.0
1.222 20.0 1.021 39.5 1.002 59.0	1.237	19.5	1.023	39.0	1.002	58.5
	1.222	20.0	1.021	39.5	1.002	59.0