

Engineering Specialties Service
680 North Bedford Street
East Bridgewater, MA. 02333
United States of America
www.engineeringspecialties.net

VSWR	Voltage Reflection Coefficient	Return Loss, db	Percent Power Reflected	Percent Power Transmitted	Effective Insertion Loss, db
1.00	0.000	infinite	0	100.00	0.000
1.01	0.005	-46.06	0.00	100.00	0.000
1.02	0.010	-40.09	0.01	99.99	0.000
1.03	0.015	-36.61	0.02	99.98	-0.001
1.04	0.020	-34.15	0.04	99.96	-0.002
1.05	0.024	-32.26	0.06	99.94	-0.003
1.06	0.029	-30.71	0.08	99.92	-0.004
1.07	0.034	-29.42	0.11	99.89	-0.005
1.08	0.038	-28.30	0.15	99.85	-0.006
1.09	0.043	-27.32	0.19	99.81	-0.008
1.10	0.048	-26.44	0.23	99.77	-0.010
1.11	0.052	-25.66	0.27	99.73	-0.012
1.12	0.057	-24.94	0.32	99.68	-0.014
1.13	0.061	-24.29	0.37	99.63	-0.016
1.14	0.065	-23.69	0.43	99.57	-0.019
1.15	0.070	-23.13	0.49	99.51	-0.021
1.16	0.074	-22.61	0.55	99.45	-0.024
1.17	0.078	-22.12	0.61	99.39	-0.027
1.18	0.083	-21.66	0.68	99.32	-0.030
1.19	0.087	-21.23	0.75	99.25	-0.033
1.20	0.091	-20.83	0.83	99.17	-0.036
1.21	0.095	-20.44	0.90	99.10	-0.039
1.22	0.099	-20.08	0.98	99.02	-0.043
1.23	0.103	-19.73	1.06	98.94	-0.046
1.24	0.107	-19.40	1.15	98.85	-0.050
1.25	0.111	-19.08	1.23	98.77	-0.054
1.26	0.115	-18.78	1.32	98.68	-0.058
1.27	0.119	-18.49	1.41	98.59	-0.062
1.28	0.123	-18.22	1.51	98.49	-0.066
1.29	0.127	-17.95	1.60	98.40	-0.070
1.30	0.130	-17.69	1.70	98.30	-0.075
1.31	0.134	-17.45	1.80	98.20	-0.079
1.32	0.138	-17.21	1.90	98.10	-0.083
1.33	0.142	-16.98	2.01	97.99	-0.088
1.34	0.145	-16.75	2.11	97.89	-0.093
1.35	0.149	-16.54	2.22	97.78	-0.097
1.36	0.153	-16.33	2.33	97.67	-0.102
1.37	0.156	-16.13	2.44	97.56	-0.107
1.38	0.160	-15.94	2.55	97.45	-0.112
1.39	0.163	-15.75	2.66	97.34	-0.117
1.40	0.167	-15.56	2.78	97.22	-0.122
1.41	0.170	-15.38	2.89	97.11	-0.128

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1.42	0.174	-15.21	3.01	96.99	-0.133
1.43	0.177	-15.04	3.13	96.87	-0.138
1.44	0.180	-14.88	3.25	96.75	-0.144
1.45	0.184	-14.72	3.37	96.63	-0.149
1.46	0.187	-14.56	3.50	96.50	-0.155
1.47	0.190	-14.41	3.62	96.38	-0.160
1.48	0.194	-14.26	3.75	96.25	-0.166
1.49	0.197	-14.12	3.87	96.13	-0.172
1.50	0.200	-13.98	4.00	96.00	-0.177
1.51	0.203	-13.84	4.13	95.87	-0.183
1.52	0.206	-13.71	4.26	95.74	-0.189
1.53	0.209	-13.58	4.39	95.61	-0.195
1.54	0.213	-13.45	4.52	95.48	-0.201
1.55	0.216	-13.32	4.65	95.35	-0.207
1.56	0.219	-13.20	4.79	95.21	-0.213
1.57	0.222	-13.08	4.92	95.08	-0.219
1.58	0.225	-12.96	5.05	94.95	-0.225
1.59	0.228	-12.85	5.19	94.81	-0.231
1.60	0.231	-12.74	5.33	94.67	-0.238
1.61	0.234	-12.63	5.46	94.54	-0.244
1.62	0.237	-12.52	5.60	94.40	-0.250
1.63	0.240	-12.41	5.74	94.26	-0.257
1.64	0.242	-12.31	5.88	94.12	-0.263
1.65	0.245	-12.21	6.02	93.98	-0.269
1.66	0.248	-12.11	6.16	93.84	-0.276
1.67	0.251	-12.01	6.30	93.70	-0.282
1.68	0.254	-11.91	6.44	93.56	-0.289
1.69	0.257	-11.82	6.58	93.42	-0.296
1.70	0.259	-11.73	6.72	93.28	-0.302
1.71	0.262	-11.63	6.86	93.14	-0.309
1.72	0.265	-11.54	7.01	92.99	-0.315
1.73	0.267	-11.46	7.15	92.85	-0.322
1.74	0.270	-11.37	7.29	92.71	-0.329
1.75	0.273	-11.29	7.44	92.56	-0.336
1.76	0.275	-11.20	7.58	92.42	-0.342
1.77	0.278	-11.12	7.73	92.27	-0.349
1.78	0.281	-11.04	7.87	92.13	-0.356
1.79	0.283	-10.96	8.02	91.98	-0.363
1.80	0.286	-10.88	8.16	91.84	-0.370
1.81	0.288	-10.80	8.31	91.69	-0.377
1.82	0.291	-10.73	8.46	91.54	-0.384
1.83	0.293	-10.65	8.60	91.40	-0.391
1.84	0.296	-10.58	8.75	91.25	-0.398

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1.85	0.298	-10.51	8.90	91.10	-0.405
1.86	0.301	-10.44	9.04	90.96	-0.412
1.87	0.303	-10.37	9.19	90.81	-0.419
1.88	0.306	-10.30	9.34	90.66	-0.426
1.89	0.308	-10.23	9.48	90.52	-0.433
1.90	0.310	-10.16	9.63	90.37	-0.440
1.91	0.313	-10.10	9.78	90.22	-0.447
1.92	0.315	-10.03	9.93	90.07	-0.454
1.93	0.317	-9.97	10.07	89.93	-0.461
1.94	0.320	-9.90	10.22	89.78	-0.468
1.95	0.322	-9.84	10.37	89.63	-0.475
1.96	0.324	-9.78	10.52	89.48	-0.483
1.97	0.327	-9.72	10.67	89.33	-0.490
1.98	0.329	-9.66	10.81	89.19	-0.497
1.99	0.331	-9.60	10.96	89.04	-0.504
2.00	0.333	-9.54	11.11	88.89	-0.512
2.01	0.336	-9.48	11.26	88.74	-0.519
2.02	0.338	-9.43	11.41	88.59	-0.526
2.03	0.340	-9.37	11.56	88.44	-0.533
2.04	0.342	-9.32	11.70	88.30	-0.541
2.05	0.344	-9.26	11.85	88.15	-0.548
2.06	0.346	-9.21	12.00	88.00	-0.555
2.07	0.349	-9.16	12.15	87.85	-0.562
2.08	0.351	-9.10	12.30	87.70	-0.570
2.09	0.353	-9.05	12.44	87.56	-0.577
2.10	0.355	-9.00	12.59	87.41	-0.584
2.11	0.357	-8.95	12.74	87.26	-0.592
2.12	0.359	-8.90	12.89	87.11	-0.599
2.13	0.361	-8.85	13.03	86.97	-0.606
2.14	0.363	-8.80	13.18	86.82	-0.614
2.15	0.365	-8.75	13.33	86.67	-0.621
2.16	0.367	-8.70	13.48	86.52	-0.629
2.17	0.369	-8.66	13.62	86.38	-0.636
2.18	0.371	-8.61	13.77	86.23	-0.643
2.19	0.373	-8.56	13.92	86.08	-0.651
2.20	0.375	-8.52	14.06	85.94	-0.658
2.21	0.377	-8.47	14.21	85.79	-0.666
2.22	0.379	-8.43	14.36	85.64	-0.673
2.23	0.381	-8.39	14.50	85.50	-0.680
2.24	0.383	-8.34	14.65	85.35	-0.688
2.25	0.385	-8.30	14.79	85.21	-0.695
2.26	0.387	-8.26	14.94	85.06	-0.703
2.27	0.388	-8.21	15.08	84.92	-0.710

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2.28	0.390	-8.17	15.23	84.77	-0.718
2.29	0.392	-8.13	15.37	84.63	-0.725
2.30	0.394	-8.09	15.52	84.48	-0.732
2.31	0.396	-8.05	15.66	84.34	-0.740
2.32	0.398	-8.01	15.81	84.19	-0.747
2.33	0.399	-7.97	15.95	84.05	-0.755
2.34	0.401	-7.93	16.10	83.90	-0.762
2.35	0.403	-7.89	16.24	83.76	-0.770
2.36	0.405	-7.86	16.38	83.62	-0.777
2.37	0.407	-7.82	16.53	83.47	-0.785
2.38	0.408	-7.78	16.67	83.33	-0.792
2.39	0.410	-7.74	16.81	83.19	-0.799
2.40	0.412	-7.71	16.96	83.04	-0.807
2.41	0.413	-7.67	17.10	82.90	-0.814
2.42	0.415	-7.63	17.24	82.76	-0.822
2.43	0.417	-7.60	17.38	82.62	-0.829
2.44	0.419	-7.56	17.52	82.48	-0.837
2.45	0.420	-7.53	17.66	82.34	-0.844
2.46	0.422	-7.49	17.81	82.19	-0.852
2.47	0.424	-7.46	17.95	82.05	-0.859
2.48	0.425	-7.43	18.09	81.91	-0.866
2.49	0.427	-7.39	18.23	81.77	-0.874
2.50	0.429	-7.36	18.37	81.63	-0.881
2.51	0.430	-7.33	18.51	81.49	-0.889
2.52	0.432	-7.29	18.65	81.35	-0.896
2.53	0.433	-7.26	18.79	81.21	-0.904
2.54	0.435	-7.23	18.92	81.08	-0.911
2.55	0.437	-7.20	19.06	80.94	-0.919
2.56	0.438	-7.17	19.20	80.80	-0.926
2.57	0.440	-7.14	19.34	80.66	-0.933
2.58	0.441	-7.10	19.48	80.52	-0.941
2.59	0.443	-7.07	19.62	80.38	-0.948
2.60	0.444	-7.04	19.75	80.25	-0.956
2.61	0.446	-7.01	19.89	80.11	-0.963
2.62	0.448	-6.98	20.03	79.97	-0.971
2.63	0.449	-6.95	20.16	79.84	-0.978
2.64	0.451	-6.93	20.30	79.70	-0.985
2.65	0.452	-6.90	20.44	79.56	-0.993
2.66	0.454	-6.87	20.57	79.43	-1.000
2.67	0.455	-6.84	20.71	79.29	-1.008
2.68	0.457	-6.81	20.84	79.16	-1.015
2.69	0.458	-6.78	20.98	79.02	-1.022
2.70	0.459	-6.76	21.11	78.89	-1.030

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2.71	0.461	-6.73	21.24	78.76	-1.037
2.72	0.462	-6.70	21.38	78.62	-1.045
2.73	0.464	-6.67	21.51	78.49	-1.052
2.74	0.465	-6.65	21.64	78.36	-1.059
2.75	0.467	-6.62	21.78	78.22	-1.067
2.76	0.468	-6.59	21.91	78.09	-1.074
2.77	0.469	-6.57	22.04	77.96	-1.081
2.78	0.471	-6.54	22.17	77.83	-1.089
2.79	0.472	-6.52	22.31	77.69	-1.096
2.80	0.474	-6.49	22.44	77.56	-1.103
2.81	0.475	-6.46	22.57	77.43	-1.111
2.82	0.476	-6.44	22.70	77.30	-1.118
2.83	0.478	-6.41	22.83	77.17	-1.126
2.84	0.479	-6.39	22.96	77.04	-1.133
2.85	0.481	-6.37	23.09	76.91	-1.140
2.86	0.482	-6.34	23.22	76.78	-1.147
2.87	0.483	-6.32	23.35	76.65	-1.155
2.88	0.485	-6.29	23.48	76.52	-1.162
2.89	0.486	-6.27	23.61	76.39	-1.169
2.90	0.487	-6.25	23.73	76.27	-1.177
2.91	0.488	-6.22	23.86	76.14	-1.184
2.92	0.490	-6.20	23.99	76.01	-1.191
2.93	0.491	-6.18	24.12	75.88	-1.199
2.94	0.492	-6.15	24.24	75.76	-1.206
2.95	0.494	-6.13	24.37	75.63	-1.213
2.96	0.495	-6.11	24.50	75.50	-1.220
2.97	0.496	-6.09	24.62	75.38	-1.228
2.98	0.497	-6.06	24.75	75.25	-1.235
2.99	0.499	-6.04	24.87	75.13	-1.242
3.00	0.500	-6.02	25.00	75.00	-1.249
3.01	0.501	-6.00	25.12	74.88	-1.257
3.02	0.502	-5.98	25.25	74.75	-1.264
3.03	0.504	-5.96	25.37	74.63	-1.271
3.04	0.505	-5.94	25.50	74.50	-1.278
3.05	0.506	-5.91	25.62	74.38	-1.286
3.06	0.507	-5.89	25.74	74.26	-1.293
3.07	0.509	-5.87	25.87	74.13	-1.300
3.08	0.510	-5.85	25.99	74.01	-1.307
3.09	0.511	-5.83	26.11	73.89	-1.314
3.10	0.512	-5.81	26.23	73.77	-1.321
3.11	0.513	-5.79	26.36	73.64	-1.329
3.12	0.515	-5.77	26.48	73.52	-1.336
3.13	0.516	-5.75	26.60	73.40	-1.343

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3.14	0.517	-5.73	26.72	73.28	-1.350
3.15	0.518	-5.71	26.84	73.16	-1.357
3.16	0.519	-5.69	26.96	73.04	-1.364
3.17	0.520	-5.67	27.08	72.92	-1.372
3.18	0.522	-5.65	27.20	72.80	-1.379
3.19	0.523	-5.64	27.32	72.68	-1.386
3.20	0.524	-5.62	27.44	72.56	-1.393
3.21	0.525	-5.60	27.56	72.44	-1.400
3.22	0.526	-5.58	27.67	72.33	-1.407
3.23	0.527	-5.56	27.79	72.21	-1.414
3.24	0.528	-5.54	27.91	72.09	-1.421
3.25	0.529	-5.52	28.03	71.97	-1.428
3.26	0.531	-5.51	28.14	71.86	-1.435
3.27	0.532	-5.49	28.26	71.74	-1.442
3.28	0.533	-5.47	28.38	71.62	-1.450
3.29	0.534	-5.45	28.49	71.51	-1.457
3.30	0.535	-5.43	28.61	71.39	-1.464
3.31	0.536	-5.42	28.73	71.27	-1.471
3.32	0.537	-5.40	28.84	71.16	-1.478
3.33	0.538	-5.38	28.96	71.04	-1.485
3.34	0.539	-5.37	29.07	70.93	-1.492
3.35	0.540	-5.35	29.18	70.82	-1.499
3.36	0.541	-5.33	29.30	70.70	-1.506
3.37	0.542	-5.31	29.41	70.59	-1.513
3.38	0.543	-5.30	29.53	70.47	-1.520
3.39	0.544	-5.28	29.64	70.36	-1.527
3.40	0.545	-5.26	29.75	70.25	-1.534
3.41	0.546	-5.25	29.86	70.14	-1.541
3.42	0.548	-5.23	29.98	70.02	-1.548
3.43	0.549	-5.22	30.09	69.91	-1.555
3.44	0.550	-5.20	30.20	69.80	-1.561
3.45	0.551	-5.18	30.31	69.69	-1.568
3.46	0.552	-5.17	30.42	69.58	-1.575
3.47	0.553	-5.15	30.53	69.47	-1.582
3.48	0.554	-5.14	30.64	69.36	-1.589
3.49	0.555	-5.12	30.75	69.25	-1.596
3.50	0.556	-5.11	30.86	69.14	-1.603
3.51	0.557	-5.09	30.97	69.03	-1.610
3.52	0.558	-5.07	31.08	68.92	-1.617
3.53	0.558	-5.06	31.19	68.81	-1.624
3.54	0.559	-5.04	31.30	68.70	-1.630
3.55	0.560	-5.03	31.41	68.59	-1.637
3.56	0.561	-5.01	31.52	68.48	-1.644

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3.57	0.562	-5.00	31.63	68.37	-1.651
3.58	0.563	-4.98	31.73	68.27	-1.658
3.59	0.564	-4.97	31.84	68.16	-1.665
3.60	0.565	-4.96	31.95	68.05	-1.672
3.61	0.566	-4.94	32.05	67.95	-1.678
3.62	0.567	-4.93	32.16	67.84	-1.685
3.63	0.568	-4.91	32.27	67.73	-1.692
3.64	0.569	-4.90	32.37	67.63	-1.699
3.65	0.570	-4.88	32.48	67.52	-1.706
3.66	0.571	-4.87	32.58	67.42	-1.712
3.67	0.572	-4.86	32.69	67.31	-1.719
3.68	0.573	-4.84	32.79	67.21	-1.726
3.69	0.574	-4.83	32.90	67.10	-1.733
3.70	0.574	-4.81	33.00	67.00	-1.739
3.71	0.575	-4.80	33.11	66.89	-1.746
3.72	0.576	-4.79	33.21	66.79	-1.753
3.73	0.577	-4.77	33.31	66.69	-1.760
3.74	0.578	-4.76	33.42	66.58	-1.766
3.75	0.579	-4.75	33.52	66.48	-1.773
3.76	0.580	-4.73	33.62	66.38	-1.780
3.77	0.581	-4.72	33.72	66.28	-1.786
3.78	0.582	-4.71	33.82	66.18	-1.793
3.79	0.582	-4.69	33.93	66.07	-1.800
3.80	0.583	-4.68	34.03	65.97	-1.806
3.81	0.584	-4.67	34.13	65.87	-1.813
3.82	0.585	-4.66	34.23	65.77	-1.820
3.83	0.586	-4.64	34.33	65.67	-1.826
3.84	0.587	-4.63	34.43	65.57	-1.833
3.85	0.588	-4.62	34.53	65.47	-1.840
3.86	0.588	-4.61	34.63	65.37	-1.846
3.87	0.589	-4.59	34.73	65.27	-1.853
3.88	0.590	-4.58	34.83	65.17	-1.859
3.89	0.591	-4.57	34.93	65.07	-1.866
3.90	0.592	-4.56	35.03	64.97	-1.873
3.91	0.593	-4.54	35.13	64.87	-1.879
3.92	0.593	-4.53	35.22	64.78	-1.886
3.93	0.594	-4.52	35.32	64.68	-1.892
3.94	0.595	-4.51	35.42	64.58	-1.899
3.95	0.596	-4.50	35.52	64.48	-1.906
3.96	0.597	-4.48	35.61	64.39	-1.912
3.97	0.598	-4.47	35.71	64.29	-1.919
3.98	0.598	-4.46	35.81	64.19	-1.925
3.99	0.599	-4.45	35.90	64.10	-1.932

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VSWR	Voltage Reflection Coefficient	Return Loss, db	Percent Power Reflected	Percent Power Transmitted	Effective Insertion Loss, db
4.00	0.600	-4.44	36.00	64.00	-1.938
4.10	0.608	-4.32	36.95	63.05	-2.003
4.20	0.615	-4.22	37.87	62.13	-2.067
4.30	0.623	-4.12	38.77	61.23	-2.130
4.40	0.630	-4.02	39.64	60.36	-2.193
4.50	0.636	-3.93	40.50	59.50	-2.255
4.60	0.643	-3.84	41.33	58.67	-2.316
4.70	0.649	-3.75	42.14	57.86	-2.376
4.80	0.655	-3.67	42.93	57.07	-2.436
4.90	0.661	-3.60	43.69	56.31	-2.494
5.00	0.667	-3.52	44.44	55.56	-2.553
5.10	0.672	-3.45	45.18	54.82	-2.610
5.20	0.677	-3.38	45.89	54.11	-2.667
5.30	0.683	-3.32	46.59	53.41	-2.723
5.40	0.688	-3.25	47.27	52.73	-2.779
5.50	0.692	-3.19	47.93	52.07	-2.834
5.60	0.697	-3.14	48.58	51.42	-2.888
5.70	0.701	-3.08	49.21	50.79	-2.942
5.80	0.706	-3.03	49.83	50.17	-2.995
5.90	0.710	-2.97	50.43	49.57	-3.048
6.00	0.714	-2.92	51.02	48.98	-3.100
6.10	0.718	-2.87	51.60	48.40	-3.151
6.20	0.722	-2.83	52.16	47.84	-3.202
6.30	0.726	-2.78	52.71	47.29	-3.252
6.40	0.730	-2.74	53.25	46.75	-3.302
6.50	0.733	-2.69	53.78	46.22	-3.351
6.60	0.737	-2.65	54.29	45.71	-3.400
6.70	0.740	-2.61	54.80	45.20	-3.448
6.80	0.744	-2.57	55.29	44.71	-3.496
6.90	0.747	-2.54	55.78	44.22	-3.543
7.00	0.750	-2.50	56.25	43.75	-3.590
7.10	0.753	-2.46	56.71	43.29	-3.637
7.20	0.756	-2.43	57.17	42.83	-3.682
7.30	0.759	-2.39	57.61	42.39	-3.728
7.40	0.762	-2.36	58.05	41.95	-3.773
7.50	0.765	-2.33	58.48	41.52	-3.817
7.60	0.767	-2.30	58.90	41.10	-3.861
7.70	0.770	-2.27	59.31	40.69	-3.905
7.80	0.773	-2.24	59.71	40.29	-3.948
7.90	0.775	-2.21	60.11	39.89	-3.991
8.00	0.778	-2.18	60.49	39.51	-4.033
8.10	0.780	-2.16	60.87	39.13	-4.075
8.20	0.783	-2.13	61.25	38.75	-4.117

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8.30	0.785	-2.10	61.61	38.39	-4.158
8.40	0.787	-2.08	61.97	38.03	-4.199
8.50	0.789	-2.05	62.33	37.67	-4.240
8.60	0.792	-2.03	62.67	37.33	-4.280
8.70	0.794	-2.01	63.01	36.99	-4.320
8.80	0.796	-1.98	63.35	36.65	-4.359
8.90	0.798	-1.96	63.68	36.32	-4.398
9.00	0.800	-1.94	64.00	36.00	-4.437
9.10	0.802	-1.92	64.32	35.68	-4.475
9.20	0.804	-1.90	64.63	35.37	-4.514
9.30	0.806	-1.88	64.94	35.06	-4.551
9.40	0.808	-1.86	65.24	34.76	-4.589
9.50	0.810	-1.84	65.53	34.47	-4.626
9.60	0.811	-1.82	65.82	34.18	-4.663
9.70	0.813	-1.80	66.11	33.89	-4.699
9.80	0.815	-1.78	66.39	33.61	-4.736
9.90	0.817	-1.76	66.67	33.33	-4.772
10.00	0.818	-1.74	66.94	33.06	-4.807
11.00	0.833	-1.58	69.44	30.56	-5.149
12.00	0.846	-1.45	71.60	28.40	-5.466
13.00	0.857	-1.34	73.47	26.53	-5.763
14.00	0.867	-1.24	75.11	24.89	-6.040
15.00	0.875	-1.16	76.56	23.44	-6.301
16.00	0.882	-1.09	77.85	22.15	-6.547
17.00	0.889	-1.02	79.01	20.99	-6.780
18.00	0.895	-0.97	80.06	19.94	-7.002
19.00	0.900	-0.92	81.00	19.00	-7.212
20.00	0.905	-0.87	81.86	18.14	-7.413
21.00	0.909	-0.83	82.64	17.36	-7.606
22.00	0.913	-0.79	83.36	16.64	-7.790
23.00	0.917	-0.76	84.03	15.97	-7.966
24.00	0.920	-0.72	84.64	15.36	-8.136
25.00	0.923	-0.70	85.21	14.79	-8.299
26.00	0.926	-0.67	85.73	14.27	-8.457
27.00	0.929	-0.64	86.22	13.78	-8.609
28.00	0.931	-0.62	86.68	13.32	-8.756
29.00	0.933	-0.60	87.11	12.89	-8.898
30.00	0.935	-0.58	87.51	12.49	-9.035
31.00	0.938	-0.56	87.89	12.11	-9.169
32.00	0.939	-0.54	88.25	11.75	-9.298
33.00	0.941	-0.53	88.58	11.42	-9.424
34.00	0.943	-0.51	88.90	11.10	-9.546
35.00	0.944	-0.50	89.20	10.80	-9.665

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36.00	0.946	-0.48	89.48	10.52	-9.780
37.00	0.947	-0.47	89.75	10.25	-9.893
38.00	0.949	-0.46	90.01	9.99	-10.003
39.00	0.950	-0.45	90.25	9.75	-10.110
40.00	0.951	-0.43	90.48	9.52	-10.214
41.00	0.952	-0.42	90.70	9.30	-10.317
42.00	0.953	-0.41	90.91	9.09	-10.416
43.00	0.955	-0.40	91.12	8.88	-10.514
44.00	0.956	-0.39	91.31	8.69	-10.609
45.00	0.957	-0.39	91.49	8.51	-10.702
46.00	0.957	-0.38	91.67	8.33	-10.794
47.00	0.958	-0.37	91.84	8.16	-10.883
48.00	0.959	-0.36	92.00	8.00	-10.971
49.00	0.960	-0.35	92.16	7.84	-11.057
50.00	0.961	-0.35	92.31	7.69	-11.141

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