

Critical values of q for two tailed Dunett's test with alpha=0.05

df	with2g r	with3g r	with4g r	with5g r	with6g r	with7g r	with8g r	with9g r	with10g r	with11g r	with12g r	with13g r	with16g r	with21g r
5	2.5707	3.0303	3.2932	3.4759	3.6151	3.7271	3.8205	3.9004	3.9701	4.0319	4.0873	4.1374	4.2641	4.4236
6	2.4470	2.8628	3.0994	3.2635	3.3884	3.4889	3.5727	3.6444	3.7070	3.7624	3.8123	3.8573	3.9712	4.1147
7	2.3646	2.7517	2.9709	3.1227	3.2382	3.3310	3.4085	3.4747	3.5326	3.5838	3.6297	3.6713	3.7766	3.9092
8	2.3060	2.6728	2.8797	3.0227	3.1315	3.2189	3.2917	3.3541	3.4085	3.4567	3.4999	3.5391	3.6381	3.7629
9	2.2622	2.6139	2.8116	2.9482	3.0519	3.1352	3.2046	3.2640	3.3159	3.3618	3.4030	3.4402	3.5346	3.6535
10	2.2282	2.5684	2.7590	2.8905	2.9903	3.0704	3.1372	3.1943	3.2442	3.2883	3.3279	3.3637	3.4544	3.5687
11	2.2010	2.5320	2.7171	2.8446	2.9413	3.0189	3.0835	3.1388	3.1870	3.2298	3.2680	3.3027	3.3904	3.5010
12	2.1789	2.5024	2.6829	2.8071	2.9013	2.9769	3.0398	3.0936	3.1405	3.1820	3.2193	3.2530	3.3383	3.4458
13	2.1604	2.4778	2.6545	2.7760	2.8681	2.9420	3.0034	3.0560	3.1018	3.1424	3.1788	3.2117	3.2950	3.3999
14	2.1448	2.4570	2.6306	2.7498	2.8401	2.9125	2.9728	3.0243	3.0692	3.1089	3.1446	3.1768	3.2584	3.3612
15	2.1315	2.4393	2.6101	2.7274	2.8162	2.8873	2.9466	2.9972	3.0413	3.0803	3.1153	3.1470	3.2271	3.3280
16	2.1200	2.4239	2.5924	2.7080	2.7955	2.8656	2.9239	2.9737	3.0172	3.0556	3.0901	3.1212	3.2001	3.2994
17	2.1099	2.4105	2.5769	2.6911	2.7774	2.8466	2.9041	2.9532	2.9960	3.0339	3.0679	3.0986	3.1764	3.2742
18	2.1010	2.3986	2.5633	2.6762	2.7615	2.8298	2.8866	2.9351	2.9774	3.0149	3.0484	3.0788	3.1555	3.2522
19	2.0931	2.3881	2.5512	2.6629	2.7474	2.8149	2.8711	2.9191	2.9610	2.9980	3.0312	3.0612	3.1371	3.2326
20	2.0860	2.3788	2.5404	2.6511	2.7348	2.8016	2.8573	2.9049	2.9463	2.9829	3.0158	3.0455	3.1206	3.2151
30	2.0423	2.3208	2.4737	2.5782	2.6569	2.7199	2.7722	2.8168	2.8556	2.8900	2.9207	2.9486	3.0188	3.1072
40	2.0211	2.2927	2.4415	2.5429	2.6193	2.6803	2.7310	2.7742	2.8118	2.8450	2.8748	2.9017	2.9696	3.0550
50	2.0086	2.2762	2.4225	2.5221	2.5971	2.6570	2.7067	2.7491	2.7859	2.8185	2.8477	2.8741	2.9406	3.0243
60	2.0003	2.2653	2.4099	2.5084	2.5825	2.6416	2.6907	2.7325	2.7689	2.8011	2.8298	2.8559	2.9215	3.0040
70	1.9944	2.2575	2.4011	2.4987	2.5721	2.6307	2.6794	2.7208	2.7569	2.7887	2.8172	2.8430	2.9080	2.9896
80	1.9901	2.2518	2.3944	2.4914	2.5644	2.6227	2.6709	2.7121	2.7479	2.7795	2.8078	2.8334	2.8979	2.9789
90	1.9867	2.2473	2.3893	2.4858	2.5585	2.6164	2.6644	2.7053	2.7409	2.7724	2.8005	2.8259	2.8901	2.9706
100	1.9840	2.2437	2.3852	2.4814	2.5537	2.6114	2.6592	2.6999	2.7354	2.7667	2.7947	2.8200	2.8838	2.9640
1000 0	1.9602	2.2124	2.3493	2.4421	2.5118	2.5674	2.6135	2.6526	2.6867	2.7168	2.7437	2.7680	2.8292	2.9061

Critical values of q for two tailed Dunett's test with alpha=0.01

df	with2g r	with3g r	with4g r	with5g r	with6g r	with7g r	with8g r	with9g r	with10g r	with11g r	with12g r	with13g r	with16g r	with21g r
5	4.0321	4.6274	4.9745	5.2183	5.4052	5.5563	5.6828	5.7913	5.8863	5.9705	6.0462	6.1147	6.2886	6.5082
6	3.7074	4.2124	4.5057	4.7115	4.8693	4.9969	5.1038	5.1956	5.2759	5.3472	5.4113	5.4694	5.6168	5.8033
7	3.4994	3.9475	4.2076	4.3895	4.5289	4.6416	4.7360	4.8171	4.8881	4.9512	5.0078	5.0592	5.1897	5.3549
8	3.3555	3.7657	4.0020	4.1674	4.2940	4.3964	4.4830	4.5567	4.6213	4.6786	4.7301	4.7769	4.8956	5.0460
9	3.2499	3.6327	3.8529	4.0062	4.1238	4.2189	4.2985	4.3668	4.4266	4.4798	4.5275	4.5708	4.6808	4.8202
10	3.1693	3.5313	3.7387	3.8835	3.9943	4.0838	4.1581	4.2230	4.2793	4.3293	4.3742	4.4150	4.5185	4.6497
11	3.1058	3.4517	3.6493	3.7871	3.8925	3.9776	4.0489	4.1100	4.1641	4.2114	4.2539	4.2924	4.3910	4.5156
12	3.0544	3.3874	3.5773	3.7095	3.8106	3.8922	3.9605	4.0191	4.0704	4.1159	4.1568	4.1940	4.2887	4.4077
13	3.0123	3.3343	3.5181	3.6461	3.7437	3.8220	3.8878	3.9443	3.9938	4.0377	4.0771	4.1129	4.2043	4.3193
14	2.9769	3.2904	3.4685	3.5923	3.6869	3.7628	3.8268	3.8816	3.9296	3.9722	4.0104	4.0451	4.1332	4.2447
15	2.9467	3.2528	3.4264	3.5471	3.6392	3.7135	3.7756	3.8289	3.8755	3.9168	3.9540	3.9877	4.0733	4.1817
16	2.9208	3.2205	3.3903	3.5082	3.5982	3.6707	3.7313	3.7833	3.8288	3.8692	3.9055	3.9384	4.0219	4.1277
17	2.8983	3.1925	3.3589	3.4744	3.5625	3.6336	3.6929	3.7439	3.7884	3.8279	3.8634	3.8956	3.9773	4.0808
18	2.8785	3.1679	3.3314	3.4449	3.5314	3.6011	3.6593	3.7093	3.7529	3.7917	3.8265	3.8581	3.9382	4.0397
19	2.8610	3.1461	3.3071	3.4187	3.5038	3.5723	3.6296	3.6787	3.7216	3.7597	3.7940	3.8250	3.9037	4.0034
20	2.8454	3.1268	3.2855	3.3955	3.4793	3.5468	3.6032	3.6515	3.6938	3.7313	3.7650	3.7956	3.8730	3.9711
30	2.7501	3.0087	3.1537	3.2539	3.3300	3.3913	3.4424	3.4862	3.5244	3.5584	3.5888	3.6164	3.6864	3.7749
40	2.7045	2.9525	3.0910	3.1866	3.2591	3.3174	3.3661	3.4077	3.4440	3.4763	3.5052	3.5314	3.5978	3.6818
50	2.6779	2.9196	3.0544	3.1472	3.2177	3.2743	3.3215	3.3619	3.3971	3.4284	3.4564	3.4818	3.5462	3.6274
60	2.6603	2.8980	3.0304	3.1215	3.1906	3.2460	3.2923	3.3318	3.3664	3.3970	3.4244	3.4493	3.5123	3.5918
70	2.6479	2.8828	3.0134	3.1033	3.1714	3.2261	3.2717	3.3106	3.3447	3.3748	3.4019	3.4264	3.4884	3.5667
80	2.6387	2.8715	3.0008	3.0897	3.1572	3.2113	3.2563	3.2949	3.3285	3.3583	3.3851	3.4093	3.4706	3.5480
90	2.6316	2.8627	2.9911	3.0793	3.1461	3.1998	3.2445	3.2827	3.3161	3.3456	3.3721	3.3961	3.4569	3.5336
100	2.6259	2.8557	2.9833	3.0709	3.1374	3.1907	3.2351	3.2730	3.3061	3.3355	3.3618	3.3856	3.4460	3.5221
1000 0	2.5763	2.7949	2.9157	2.9984	3.0611	3.1113	3.1530	3.1887	3.2198	3.2473	3.2720	3.2944	3.3509	3.4221

Critical values of q for two tailed Dunett's test with alpha=0.001

df	with2g r	with3g r	with4g r	with5g r	with6g r	with7g r	with8g r	with9g r	with10g r	with11g r	with12g r	with13g r	with16g r	with21g r
5	6.8650	7.7672	8.2987	8.6739	8.9625	9.2158	9.4139	9.5842	9.7334	9.8660	9.9852	10.0933	10.3679	10.7156
6	5.9582	6.6610	7.0747	7.3671	7.5924	7.7752	7.9286	8.0607	8.1765	8.2794	8.3720	8.4562	8.6698	8.9409
7	5.4078	5.9933	6.3372	6.5802	6.7676	6.9198	7.0476	7.1576	7.2542	7.3401	7.4174	7.4876	7.6663	7.8933
8	5.0360	5.5509	5.8495	6.0604	6.2230	6.3550	6.4660	6.5616	6.6454	6.7201	6.7873	6.8484	7.0038	7.2014
9	4.7790	5.2337	5.4990	5.6859	5.8389	5.9568	6.0560	6.1415	6.2164	6.2832	6.3433	6.3979	6.5370	6.7139
10	4.5863	5.0039	5.2471	5.4184	5.5504	5.6575	5.7474	5.8249	5.8929	5.9534	6.0078	6.0573	6.1916	6.3533
11	4.4331	4.8259	5.0521	5.2114	5.3340	5.4336	5.5172	5.5892	5.6524	5.7087	5.7593	5.8054	5.9226	6.0717
12	4.3178	4.6797	4.8970	5.0468	5.1620	5.2555	5.3341	5.4018	5.4612	5.5140	5.5616	5.6049	5.7151	5.8553
13	4.2225	4.5683	4.7679	4.9079	5.0222	5.1109	5.1854	5.2495	5.3058	5.3559	5.4010	5.4420	5.5464	5.6793
14	4.1426	4.4748	4.6664	4.8008	4.9040	4.9876	5.0577	5.1235	5.1772	5.2250	5.2680	5.3072	5.4068	5.5336
15	4.0747	4.3952	4.5800	4.7096	4.8091	4.8897	4.9573	5.0155	5.0666	5.1120	5.1528	5.1899	5.2844	5.4112
16	4.0163	4.3268	4.5057	4.6311	4.7274	4.8054	4.8708	4.9272	4.9766	5.0205	5.0601	5.0960	5.1875	5.3038
17	3.9657	4.2674	4.4411	4.5628	4.6563	4.7321	4.7956	4.8503	4.8983	4.9410	4.9794	5.0143	5.1031	5.2160
18	3.9214	4.2154	4.3846	4.5031	4.5941	4.6678	4.7297	4.7829	4.8296	4.8711	4.9085	4.9425	5.0290	5.1390
19	3.8823	4.1695	4.3347	4.4503	4.5391	4.6111	4.6714	4.7234	4.7689	4.8095	4.8459	4.8791	4.9635	5.0708
20	3.8476	4.1288	4.2903	4.4035	4.4903	4.5606	4.6197	4.6704	4.7150	4.7546	4.7903	4.8227	4.9052	5.0101
30	3.6461	3.8908	4.0305	4.1281	4.2028	4.2633	4.3141	4.3577	4.3959	4.4299	4.4605	4.4883	4.5591	4.6490
40	3.5511	3.7796	3.9097	4.0003	4.0696	4.1257	4.1727	4.2131	4.2485	4.2799	4.3082	4.3339	4.3993	4.4824
50	3.4961	3.7155	3.8399	3.9266	3.9929	4.0464	4.0913	4.1298	4.1636	4.1936	4.2205	4.2450	4.3073	4.3865
60	3.4603	3.6737	3.7946	3.8787	3.9430	3.9949	4.0384	4.0757	4.1084	4.1374	4.1636	4.1873	4.2476	4.3242
70	3.4351	3.6443	3.7627	3.8451	3.9079	3.9587	4.0012	4.0377	4.0697	4.0980	4.1236	4.1468	4.2057	4.2805
80	3.4164	3.6226	3.7391	3.8201	3.8820	3.9319	3.9737	4.0096	4.0410	4.0689	4.0940	4.1168	4.1746	4.2481
90	3.4020	3.6058	3.7210	3.8009	3.8620	3.9113	3.9525	3.9879	4.0189	4.0464	4.0712	4.0936	4.1507	4.2232
100	3.3906	3.5925	3.7065	3.7857	3.8461	3.8949	3.9357	3.9707	4.0014	4.0286	4.0531	4.0753	4.1317	4.2034
1000 0	3.2905	3.4772	3.5814	3.6536	3.7085	3.7527	3.7897	3.8214	3.8491	3.8737	3.8957	3.9158	3.9666	4.0310