



TOLERANCES UNLESS OTHERWISE SPECIFIED		ROUGHNESS		EXTERNAL FORM		SIZE		MATERIAL		REMARKS	
Ø55mm	+0.030	NO.	DESCRIPTIONS	SIZE	MA'T'L	Q'TY	WEIGHT	REMARKS			
Ø90mm	+0.036										
	+0.013										
DIMENSION		TOL.		SYMBOLS		PART NAME		DATE		DWG.NO.	
TOLERANCE		TOL.		SYMBOLS		PART NAME		DATE		DWG.NO.	
4"	16"	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	±1.0	±1.5	±2.0	±2.5
16"	64"	±0.3	±0.4	±0.5	±0.6	±0.8	±1.0	±1.5	±2.0	±2.5	±3.0
64"	256"	±0.4	±0.5	±0.6	±0.8	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5
256"	1004"	±0.5	±0.6	±0.8	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0
1004"	4004"	±0.6	±0.8	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5
4004"	16004"	±0.8	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0
16004"	64004"	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0	±5.5
64004"	256004"	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0	±5.5	±6.0
256004"	1024004"	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0	±5.5	±6.0	±6.5
1024004"	4096004"	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0	±5.5	±6.0	±6.5	±7.0
4096004"	16384004"	±3.0	±3.5	±4.0	±4.5	±5.0	±5.5	±6.0	±6.5	±7.0	±7.5
16384004"	65536004"	±3.5	±4.0	±4.5	±5.0	±5.5	±6.0	±6.5	±7.0	±7.5	±8.0
65536004"	262144004"	±4.0	±4.5	±5.0	±5.5	±6.0	±6.5	±7.0	±7.5	±8.0	±8.5
262144004"	1048576004"	±4.5	±5.0	±5.5	±6.0	±6.5	±7.0	±7.5	±8.0	±8.5	±9.0
1048576004"	4194304004"	±5.0	±5.5	±6.0	±6.5	±7.0	±7.5	±8.0	±8.5	±9.0	±9.5
4194304004"	16777216004"	±5.5	±6.0	±6.5	±7.0	±7.5	±8.0	±8.5	±9.0	±9.5	±10.0
16777216004"	67108864004"	±6.0	±6.5	±7.0	±7.5	±8.0	±8.5	±9.0	±9.5	±10.0	±10.5
67108864004"	268435264004"	±6.5	±7.0	±7.5	±8.0	±8.5	±9.0	±9.5	±10.0	±10.5	±11.0
268435264004"	1073741056004"	±7.0	±7.5	±8.0	±8.5	±9.0	±9.5	±10.0	±10.5	±11.0	±11.5
1073741056004"	4294964224004"	±7.5	±8.0	±8.5	±9.0	±9.5	±10.0	±10.5	±11.0	±11.5	±12.0
4294964224004"	17179856896004"	±8.0	±8.5	±9.0	±9.5	±10.0	±10.5	±11.0	±11.5	±12.0	±12.5
17179856896004"	70368693846004"	±8.5	±9.0	±9.5	±10.0	±10.5	±11.0	±11.5	±12.0	±12.5	±13.0
70368693846004"	281474775384004"	±9.0	±9.5	±10.0	±10.5	±11.0	±11.5	±12.0	±12.5	±13.0	±13.5
281474775384004"	1125899101536004"	±9.5	±10.0	±10.5	±11.0	±11.5	±12.0	±12.5	±13.0	±13.5	±14.0
1125899101536004"	4503596406145004"	±10.0	±10.5	±11.0	±11.5	±12.0	±12.5	±13.0	±13.5	±14.0	±14.5
4503596406145004"	18014385624580004"	±10.5	±11.0	±11.5	±12.0	±12.5	±13.0	±13.5	±14.0	±14.5	±15.0
18014385624580004"	72057542498320004"	±11.0	±11.5	±12.0	±12.5	±13.0	±13.5	±14.0	±14.5	±15.0	±15.5
72057542498320004"	28823016999328004"	±11.5	±12.0	±12.5	±13.0	±13.5	±14.0	±14.5	±15.0	±15.5	±16.0
28823016999328004"	115292067997312004"	±12.0	±12.5	±13.0	±13.5	±14.0	±14.5	±15.0	±15.5	±16.0	±16.5
115292067997312004"	46116827198925004"	±12.5	±13.0	±13.5	±14.0	±14.5	±15.0	±15.5	±16.0	±16.5	±17.0
46116827198925004"	18446730879570004"	±13.0	±13.5	±14.0	±14.5	±15.0	±15.5	±16.0	±16.5	±17.0	±17.5
18446730879570004"	73786923515104004"	±13.5	±14.0	±14.5	±15.0	±15.5	±16.0	±16.5	±17.0	±17.5	±18.0
73786923515104004"	309484814064416004"	±14.0	±14.5	±15.0	±15.5	±16.0	±16.5	±17.0	±17.5	±18.0	±18.5
309484814064416004"	123793925625766004"	±14.5	±15.0	±15.5	±16.0	±16.5	±17.0	±17.5	±18.0	±18.5	±19.0
123793925625766004"	495175702503065004"	±15.0	±15.5	±16.0	±16.5	±17.0	±17.5	±18.0	±18.5	±19.0	±19.5
495175702503065004"	198070281001226004"	±15.5	±16.0	±16.5	±17.0	±17.5	±18.0	±18.5	±19.0	±19.5	±20.0
198070281001226004"	792281124004905004"	±16.0	±16.5	±17.0	±17.5	±18.0	±18.5	±19.0	±19.5	±20.0	±20.5
792281124004905004"	316912449601961004"	±16.5	±17.0	±17.5	±18.0	±18.5	±19.0	±19.5	±20.0	±20.5	±21.0
316912449601961004"	126764979840784004"	±17.0	±17.5	±18.0	±18.5	±19.0	±19.5	±20.0	±20.5	±21.0	±21.5
126764979840784004"	507059919363138004"	±17.5	±18.0	±18.5	±19.0	±19.5	±20.0	±20.5	±21.0	±21.5	±22.0
507059919363138004"	207691742971141004"	±18.0	±18.5	±19.0	±19.5	±20.0	±20.5	±21.0	±21.5	±22.0	±22.5
207691742971141004"	850705379209796004"	±18.5	±19.0	±19.5	±20.0	±20.5	±21.0	±21.5	±22.0	±22.5	±23.0
850705379209796004"	340282151683918004"	±19.0	±19.5	±20.0	±20.5	±21.0	±21.5	±22.0	±22.5	±23.0	±23.5
340282151683918004"	136112860673567004"	±19.5	±20.0	±20.5	±21.0	±21.5	±22.0	±22.5	±23.0	±23.5	±24.0
136112860673567004"	544451442694269004"	±20.0	±20.5	±21.0	±21.5	±22.0	±22.5	±23.0	±23.5	±24.0	±24.5
544451442694269004"	217780577077707004"	±20.5	±21.0	±21.5	±22.0	±22.5	±23.0	±23.5	±24.0	±24.5	±25.0
217780577077707004"	871122308310831004"	±21.0	±21.5	±22.0	±22.5	±23.0	±23.5	±24.0	±24.5	±25.0	±25.5
871122308310831004"	348448923324332004"	±21.5	±22.0	±22.5	±23.0	±23.5	±24.0	±24.5	±25.0	±25.5	±26.0
348448923324332004"	139379569329733004"	±22.0	±22.5	±23.0	±23.5	±24.0	±24.5	±25.0	±25.5	±26.0	±26.5
139379569329733004"	557518277318932004"	±22.5	±23.0	±23.5	±24.0	±24.5	±25.0	±25.5	±26.0	±26.5	±27.0
557518277318932004"	223007310927572004"	±23.0	±23.5	±24.0	±24.5	±25.0	±25.5	±26.0	±26.5	±27.0	±27.5
223007310927572004"	871122308310831004"	±23.5	±24.0	±24.5	±25.0	±25.5	±26.0	±26.5	±27.0	±27.5	±28.0
871122308310831004"	348448923324332004"	±24.0	±24.5	±25.0	±25.5	±26.0	±26.5	±27.0	±27.5	±28.0	±28.5
348448923324332004"	139379569329733004"	±24.5	±25.0	±25.5	±26.0	±26.5	±27.0	±27.5	±28.0	±28.5	±29.0
139379569329733004"	557518277318932004"	±25.0	±25.5	±26.0	±26.5	±27.0	±27.5	±28.0	±28.5	±29.0	±29.5
557518277318932004"	223007310927572004"	±25.5	±26.0	±26.5	±27.0	±27.5	±28.0	±28.5	±29.0	±29.5	±30.0
223007310927572004"	871122308310831004"	±26.0	±26.5	±27.0	±27.5	±28.0	±28.5	±29.0	±29.5	±30.0	±30.5
871122308310831004"	348448923324332004"	±26.5	±27.0	±27.5	±28.0	±28.5	±29.0	±29.5	±30.0	±30.5	±31.0
348448923324332004"	139379569329733004"	±27.0	±27.5	±28.0	±28.5	±29.0	±29.5	±30.0	±30.5	±31.0	±31.5
139379569329733004"	557518277318932004"	±27.5	±28.0	±28.5	±29.0	±29.5	±30.0	±30.5	±31.0	±31.5	±32.0
557518277318932004"	223007310927572004"	±28.0	±28.5	±29.0	±29.5	±30.0	±30.5	±31.0	±31.5	±32.0	±32.5
223007310927572004"	871122308310831004"	±28.5	±29.0	±29.5	±30.0	±30.5	±31.0	±31.5	±32.0	±32.5	±33.0
871122308310831004"	348448923324332004"	±29.0	±29.5	±30.0	±30.5	±31.0	±31.5	±32.0	±32.5	±33.0	±33.5
348448923324332004"	139379569329733004"	±29.5	±30.0	±30.5	±31.0	±31.5	±32.0	±32.5	±33.0	±33.5	±34.0
139379569329733004"	557518277318932004"	±30.0	±30.5	±31.0	±31.5	±32.0	±32.5	±33.0	±33.5	±34.0	±34.5
557518277318932004"	223007310927572004"	±30.5	±31.0	±31.5	±32.0	±32.5	±33.0	±33.5	±34.0	±34.5	±35.0
223007310927572004"	871122308310831004"	±31.0	±31.5	±32.0	±32.5	±33.0	±33.5	±34.0	±34.5	±35.0	±35.5
871122308310831004"	348448923324332004"	±31.5	±32.0	±32.5	±33.0	±33.5	±34.0	±34.5	±35.0	±35.5	±36.0
348448923324332004"	139379569329733004"	±32.0	±32.5	±33.0	±33.5	±34.0	±34.5	±35.0	±35.5	±36.0	±36.5
139379569329733004"	557518277318932004"	±32.5	±33.0	±33.5	±34.0	±34.5	±35.0	±35.5	±36.0	±36.5	±37.0
557518277318932004"	223007310927572004"	±33.0	±33.5	±34.0	±34.5	±35.0	±35.5	±36.0	±36.5	±37.0	±37.5
223007310927572004"	871122308310831004"	±33.5	±34.0	±34.5	±35.0	±35.5	±36.0	±36.5	±37.0	±37.5	±38.0
871122308310831004"	348448923324332004"	±34.0	±34.5	±35.0	±35.5	±36.0	±36.5	±37.0	±37.5	±38.0	±38.5
348448923324332004"	139379569329733004"	±34.5	±35.0	±35.5	±36.0	±36.5	±37.0	±37.5	±38.0	±38.5	±39.0
139379569329733004"	557518277318932004"	±35.0	±35.5	±36.0	±36.5	±37.0	±37.5	±38.0	±38.5	±39.0	±39.5
557518277318932004"	223007310927572004"	±35.5	±36.0	±36.5	±37.0	±37.5	±38.0	±38.5	±39.0	±39.5	±40.0
223007310927572004"	871122308310831004"	±36.0	±36.5	±37.0	±37.5	±38.0	±38.5	±39.0	±39.5	±40.0	±40.5
871122308310831004"	348448923324332004"	±36.5	±37.0	±37.5	±38.0	±38.5	±39.0	±39.5	±40.0	±40.5	±41.0
348448923324332004"	139379569329733004"	±37.0	±37.5	±38.0	±38.5	±39.0	±39.5	±40.0	±40.5	±41.0	±41.5
139379569329733004"	557518277318932004"	±37.5	±38.0	±38.5	±39.0	±39.5	±40.0	±40.5	±41.0	±41.5	±42.0
557518277318932004"	223007310927572004"	±38.0	±38.5	±39.0	±39.5	±40.0	±40.5	±41.0	±41.5	±42.0	±42.5
223007310927572004"	871122308310831004"	±38.5	±39.0	±39.5	±40.0	±40.5	±41.0	±41.5	±42.0	±42.5	±43.0
871122308310831004"	348448923324332004"	±39.0	±39.5	±40.0	±40.5	±41.0	±41.5	±42.0	±42.5	±43.0	±43.5
348448923324332004"	139379569329733004"	±39.5	±40.0	±40.5	±41.0	±41.5	±42.0	±42.5	±43.0	±43.5	±44.0
139379569329733004"	557518277318932004"	±40.0	±40.								