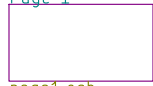
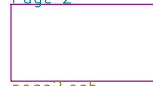


Page 1



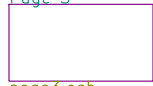
page1.sch

Page 2



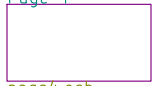
page2.sch

Page 3



page3.sch

Page 4



page4.sch

Page 5



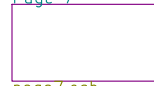
page5.sch

Page 6



page6.sch

Page 7



page7.sch

Page 8



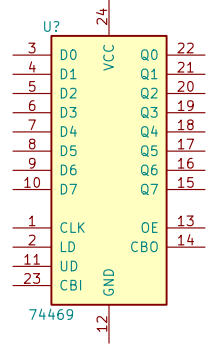
page8.sch

Page 9

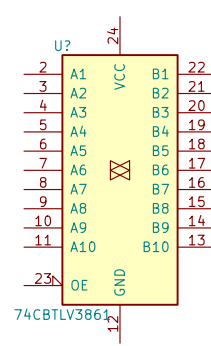


page9.sch

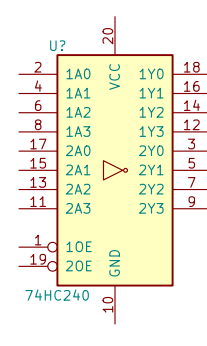
74469



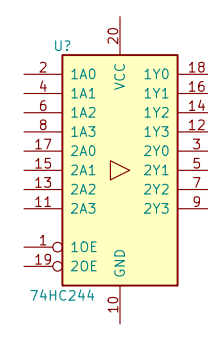
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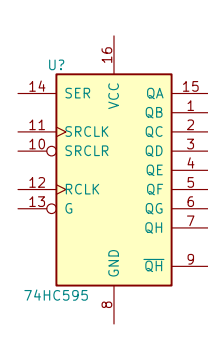
74HC240



74HC244



74HC595



74HCT04



Unit A



Unit B



Unit C



Unit D



Unit E

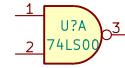


Unit F

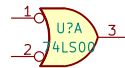


Unit G

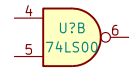
74LS00



Unit A



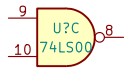
Unit A (alternate)



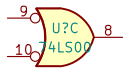
Unit B



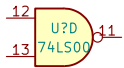
Unit B (alternate)



Unit C



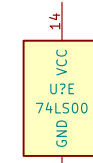
Unit C (alternate)



Unit D



Unit D (alternate)

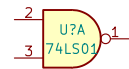


Unit E

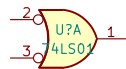


Unit E (alternate)

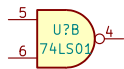
74LS01



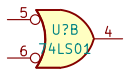
Unit A



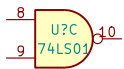
Unit A (alternate)



Unit B



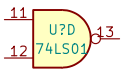
Unit B (alternate)



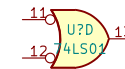
Unit C



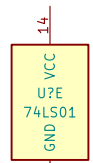
Unit C (alternate)



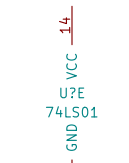
Unit D



Unit D (alternate)

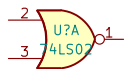


Unit E

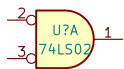


Unit E (alternate)

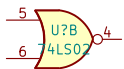
74LS02



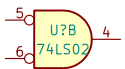
Unit A



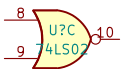
Unit A (alternate)



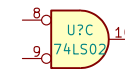
Unit B



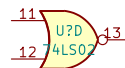
Unit B (alternate)



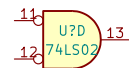
Unit C



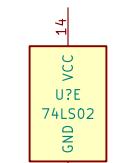
Unit C (alternate)



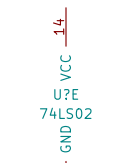
Unit D



Unit D (alternate)

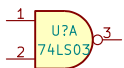


Unit E



Unit E (alternate)

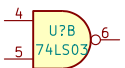
74LS03



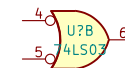
Unit A



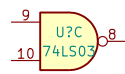
Unit A (alternate)



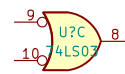
Unit B



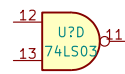
Unit B (alternate)



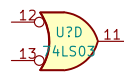
Unit C



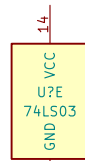
Unit C (alternate)



Unit D



Unit D (alternate)

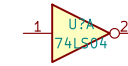


Unit E

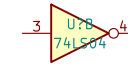


Unit E (alternate)

74LS04



Unit A



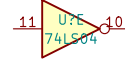
Unit B



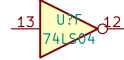
Unit C



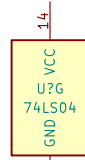
Unit D



Unit E

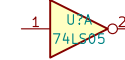


Unit F

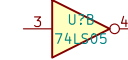


Unit G

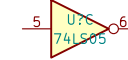
74LS05



Unit A



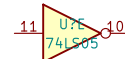
Unit B



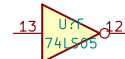
Unit C



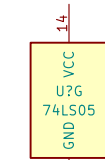
Unit D



Unit E



Unit F

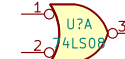


Unit G

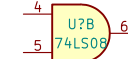
74LS08



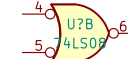
Unit A



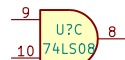
Unit A (alternate)



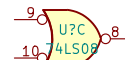
Unit B



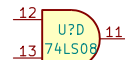
Unit B (alternate)



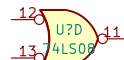
Unit C



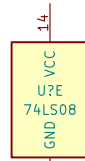
Unit C (alternate)



Unit D



Unit D (alternate)

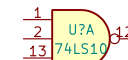


Unit E

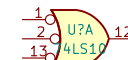


Unit E (alternate)

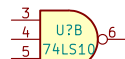
74LS10



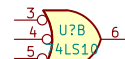
Unit A



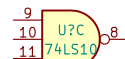
Unit A (alternate)



Unit B



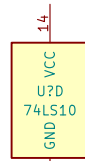
Unit B (alternate)



Unit C



Unit C (alternate)

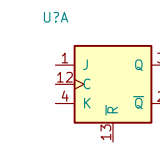


Unit D

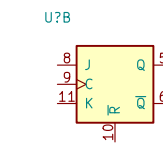


Unit D (alternate)

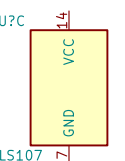
74LS107



Unit A

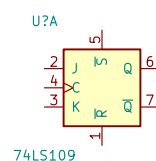


Unit B

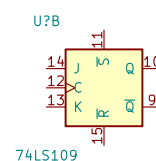


Unit C

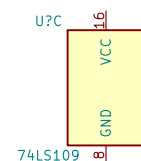
74LS109



Unit A

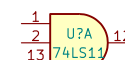


Unit B

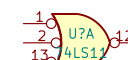


Unit C

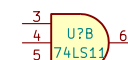
74LS11



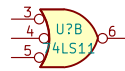
Unit A



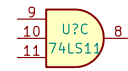
Unit A (alternate)



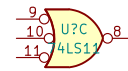
Unit B



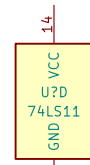
Unit B (alternate)



Unit C



Unit C (alternate)

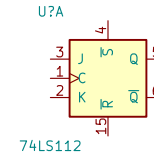


Unit D

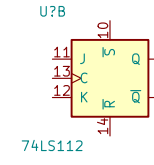


Unit D (alternate)

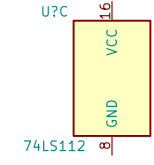
74LS112



Unit A

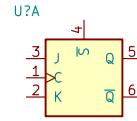


Unit B

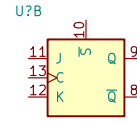


Unit C

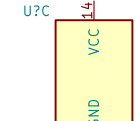
74LS113



Unit A

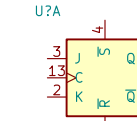


Unit B

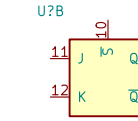


Unit C

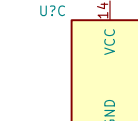
74LS114



Unit A

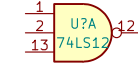


Unit B

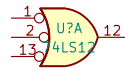


Unit C

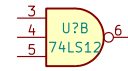
74LS12



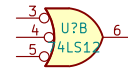
Unit A



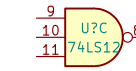
Unit A (alternate)



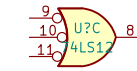
Unit B



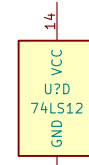
Unit B (alternate)



Unit C



Unit C (alternate)

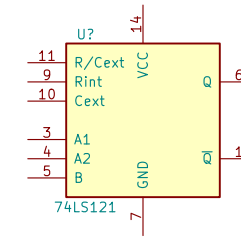


Unit D

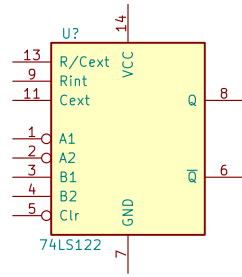


Unit D (alternate)

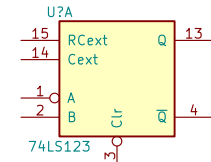
74LS121



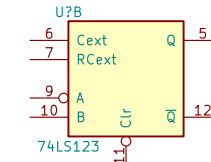
74LS122



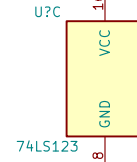
74LS123



Unit A

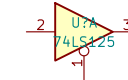


Unit B

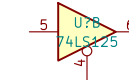


Unit C

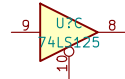
74LS125



Unit A



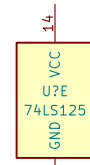
Unit B



Unit C

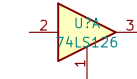


Unit D

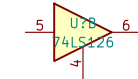


Unit E

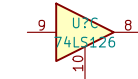
74LS126



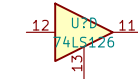
Unit A



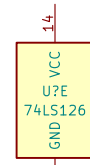
Unit B



Unit C

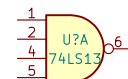


Unit D

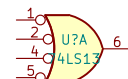


Unit E

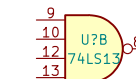
74LS13



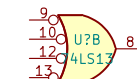
Unit A



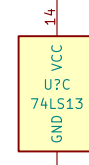
Unit A (alternate)



Unit B



Unit B (alternate)

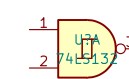


Unit C

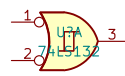


Unit C (alternate)

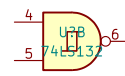
74LS132



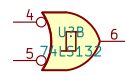
Unit A



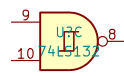
Unit A (alternate)



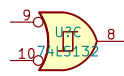
Unit B



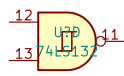
Unit B (alternate)



Unit C



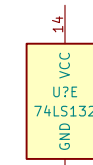
Unit C (alternate)



Unit D



Unit D (alternate)

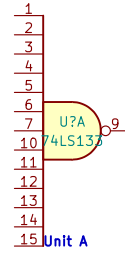


Unit E

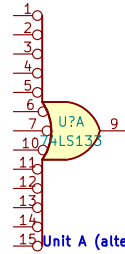


Unit E (alternate)

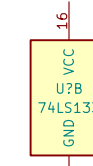
74LS133



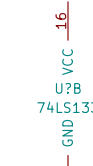
Unit A



Unit A (alternate)

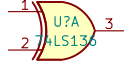


Unit B



Unit B (alternate)

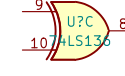
74LS136



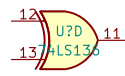
Unit A



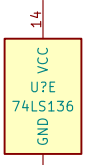
Unit B



Unit C

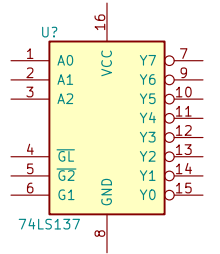


Unit D



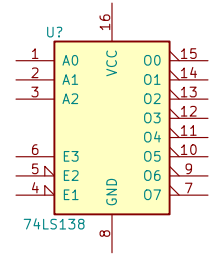
Unit E

74LS137



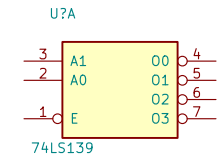
74LS137

74LS138

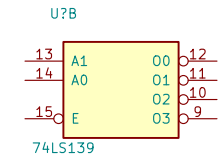


74LS138

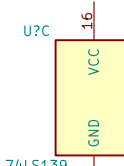
74LS139



Unit A

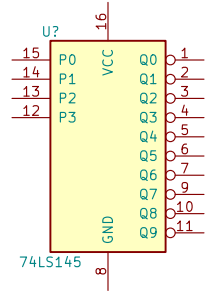


Unit B



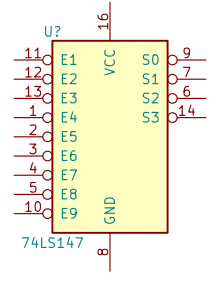
Unit C

74LS145



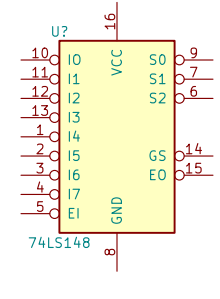
74LS145

74LS147



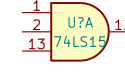
74LS147

74LS148

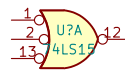


74LS148

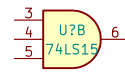
74LS15



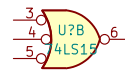
Unit A



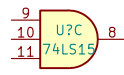
Unit A (alternate)



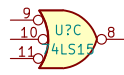
Unit B



Unit B (alternate)



Unit C



Unit C (alternate)

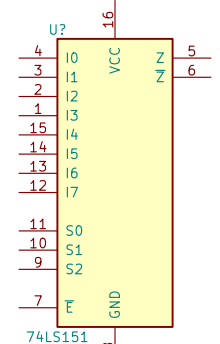


Unit D



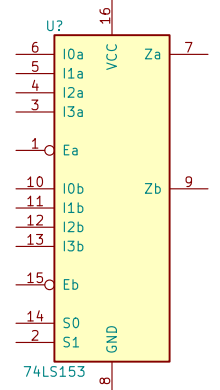
Unit D (alternate)

74LS151



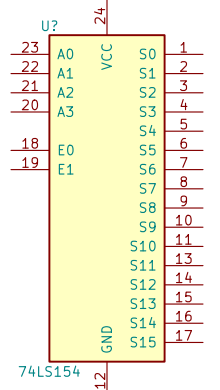
74LS151

74LS153



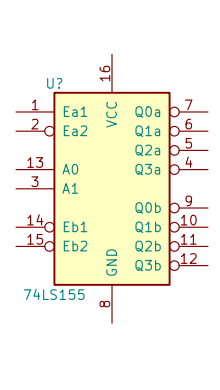
74LS153

74LS154



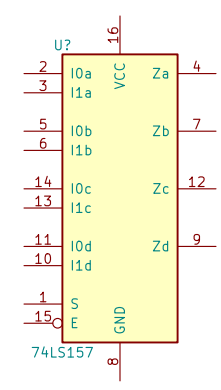
74LS154

74LS155



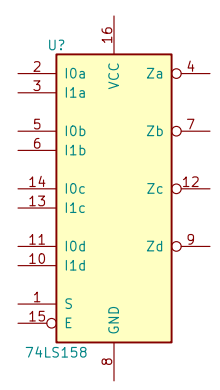
74LS155

74LS157



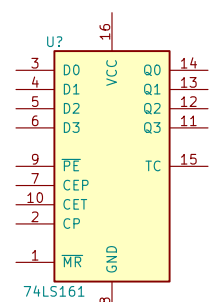
74LS157

74LS158

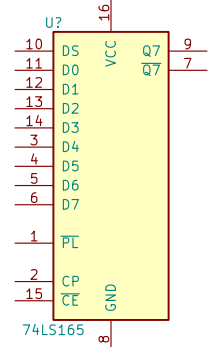


74LS158

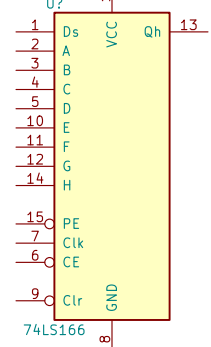
74LS161



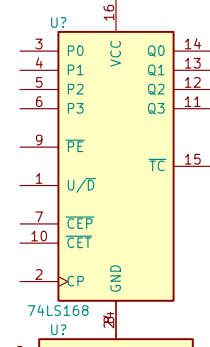
74LS165



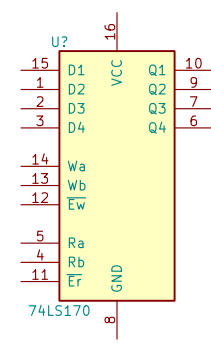
74LS166



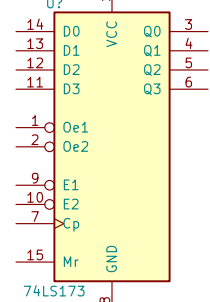
74LS168



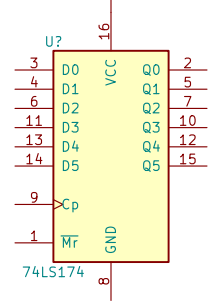
74LS170



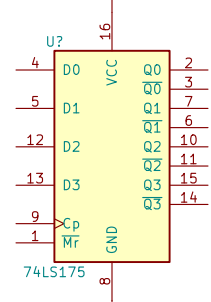
74LS173



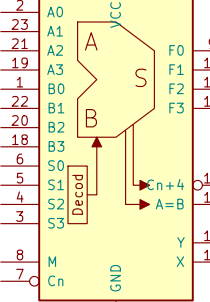
74LS174



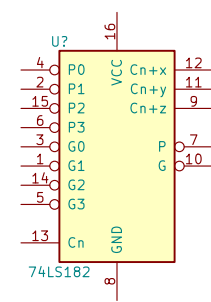
74LS175



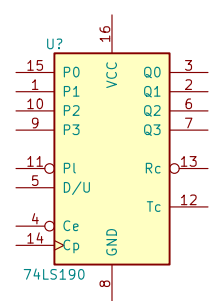
74LS181



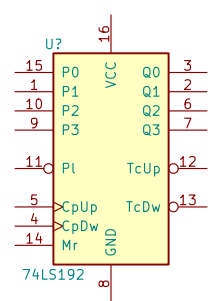
74LS182



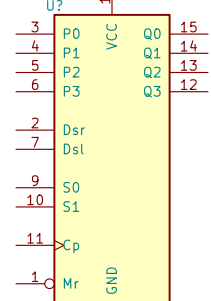
74LS190



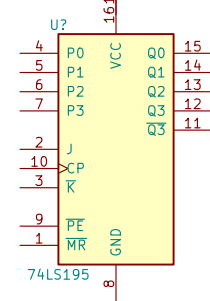
74LS192



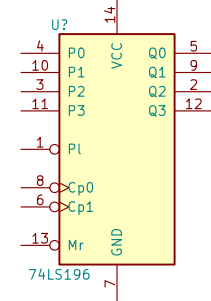
74LS194



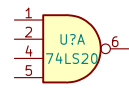
74LS195



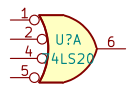
74LS196



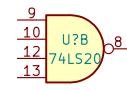
74LS20



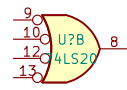
Unit A



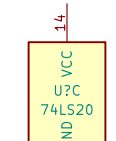
Unit A (alternate)



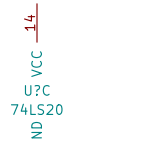
Unit B



Unit B (alternate)

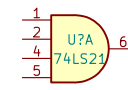


Unit C

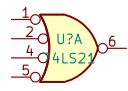


Unit C (alternate)

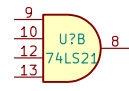
74LS21



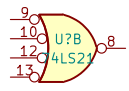
Unit A



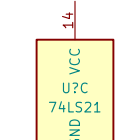
Unit A (alternate)



Unit B



Unit B (alternate)

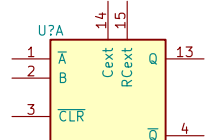


Unit C

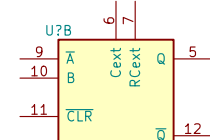


Unit C (alternate)

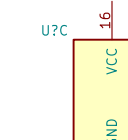
74LS221



Unit A

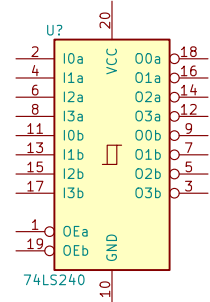


Unit B

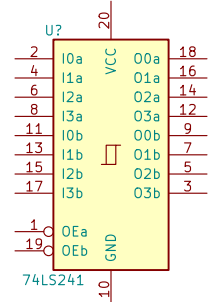


Unit C

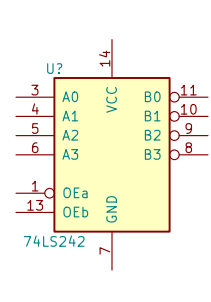
74LS240



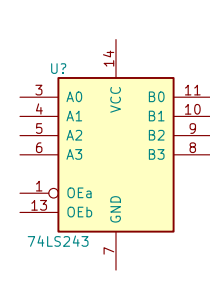
74LS241



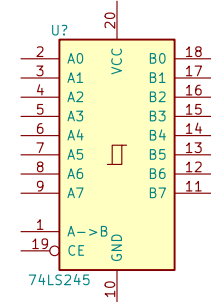
74LS242



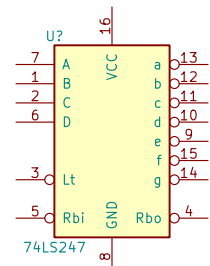
74LS243



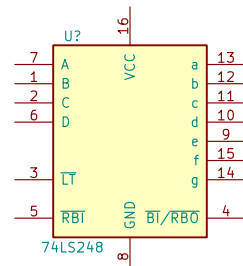
74LS245



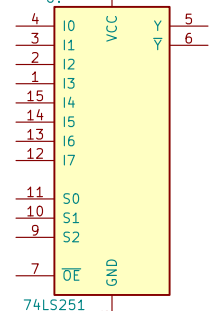
74LS247



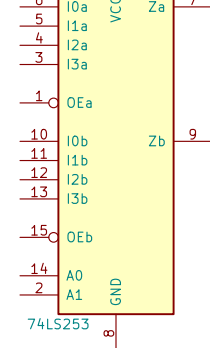
74LS248



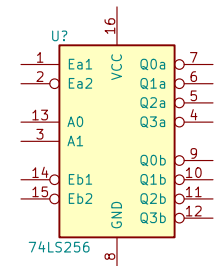
74LS251



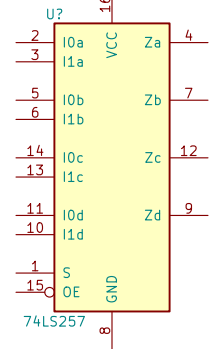
74LS253



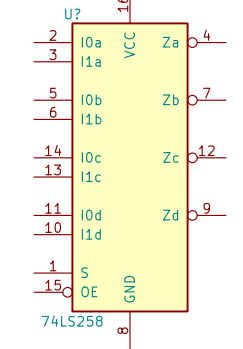
74LS256



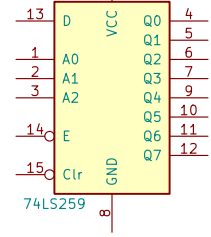
74LS257



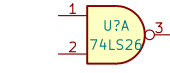
74LS258



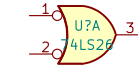
74LS259



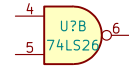
74LS26



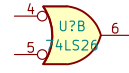
Unit A



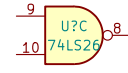
Unit A (alternate)



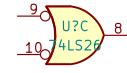
Unit B



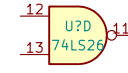
Unit B (alternate)



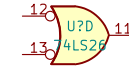
Unit C



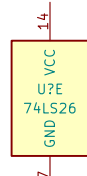
Unit C (alternate)



Unit D



Unit D (alternate)

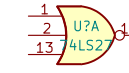


Unit E

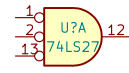


Unit E (alternate)

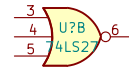
74LS27



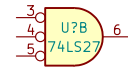
Unit A



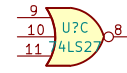
Unit A (alternate)



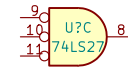
Unit B



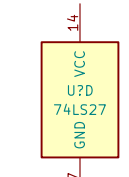
Unit B (alternate)



Unit C



Unit C (alternate)

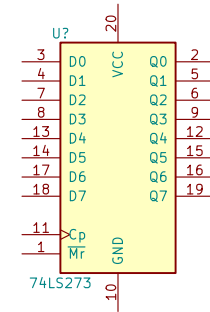


Unit D

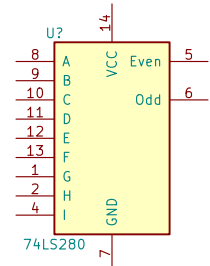


Unit D (alternate)

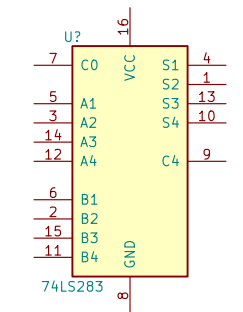
74LS273



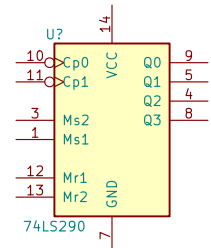
74LS280



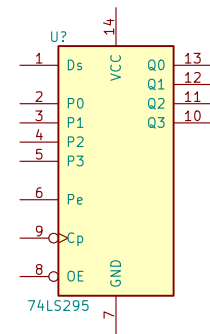
74LS283



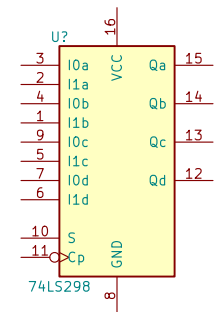
74LS290



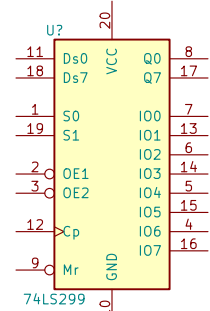
74LS295



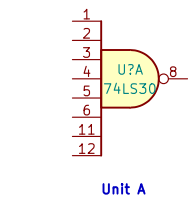
74LS298



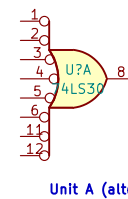
74LS299



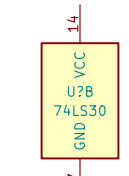
74LS30



Unit A



Unit A (alternate)

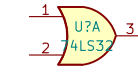


Unit B

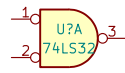


Unit B (alternate)

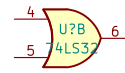
74LS32



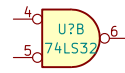
Unit A



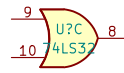
Unit A (alternate)



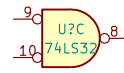
Unit B



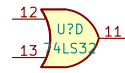
Unit B (alternate)



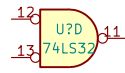
Unit C



Unit C (alternate)



Unit D



Unit D (alternate)

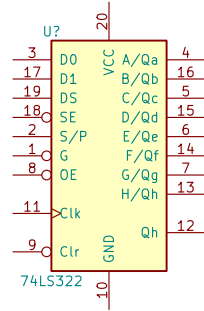


Unit E

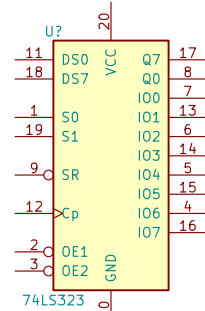


Unit E (alternate)

74LS322



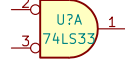
74LS323



74LS33



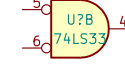
Unit A



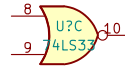
Unit A (alternate)



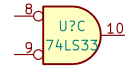
Unit B



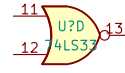
Unit B (alternate)



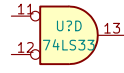
Unit C



Unit C (alternate)



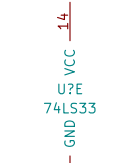
Unit D



Unit D (alternate)

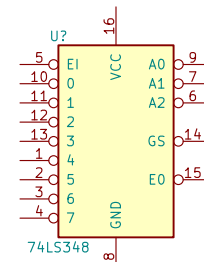


Unit E

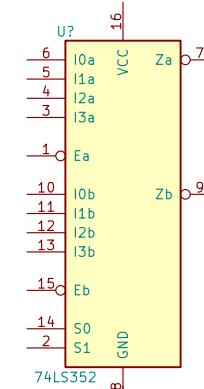


Unit E (alternate)

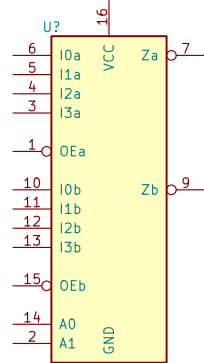
74LS348



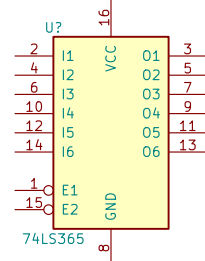
74LS352



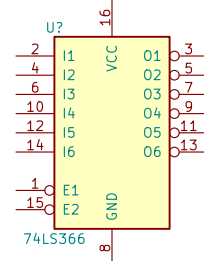
74LS353



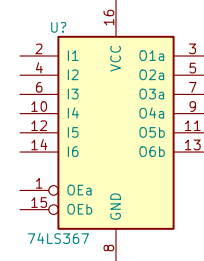
74LS365



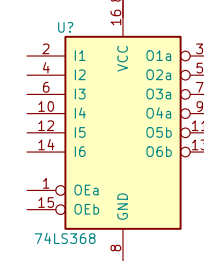
74LS366



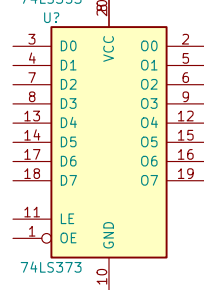
74LS367



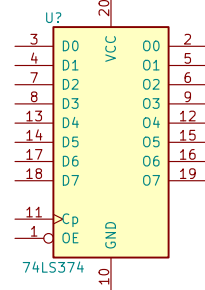
74LS368



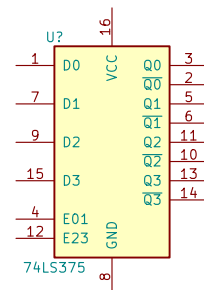
74LS373



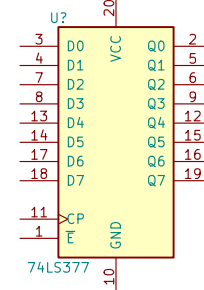
74LS374



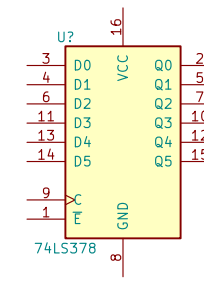
74LS375



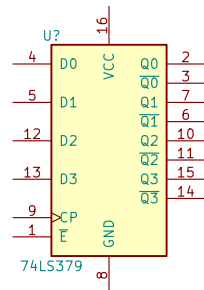
74LS377



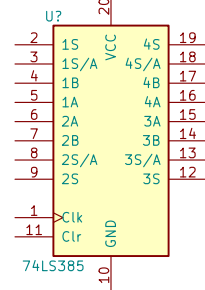
74LS378



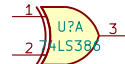
74LS379



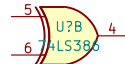
74LS385



74LS386



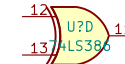
Unit A



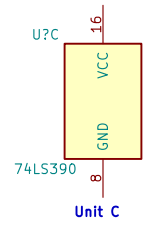
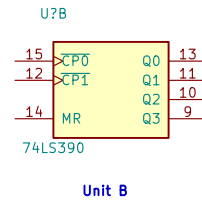
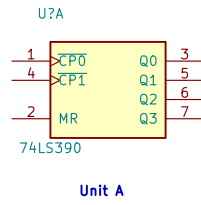
Unit B



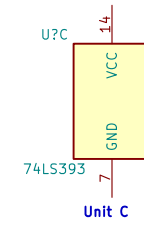
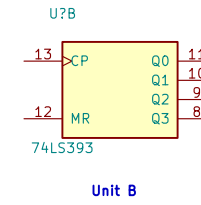
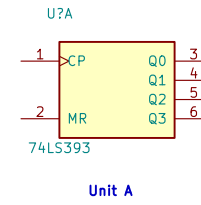
Unit C



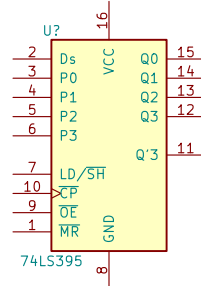
Unit D



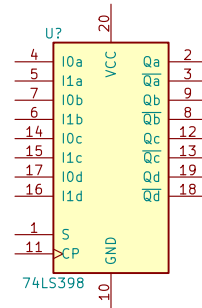
74LS393



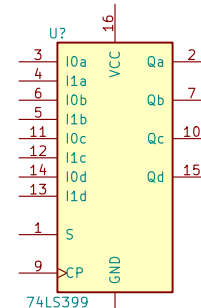
74LS395



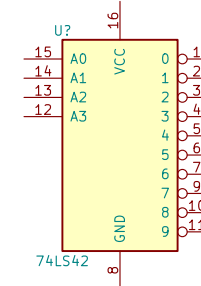
74LS398



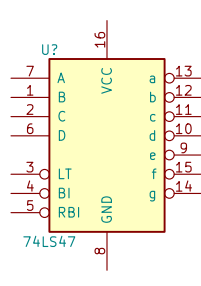
74LS399



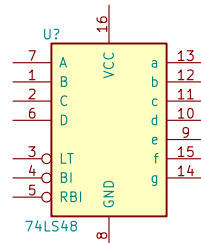
74LS42



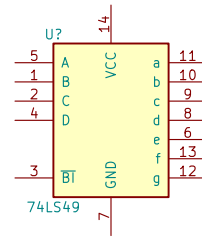
74LS47



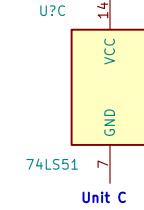
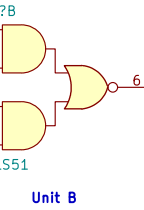
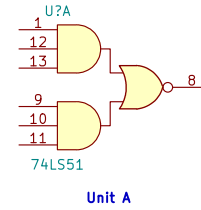
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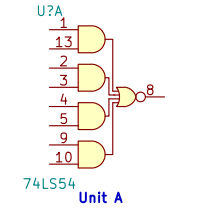
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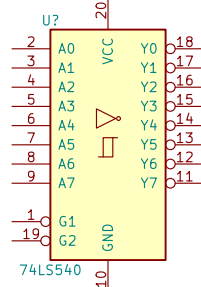
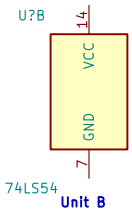
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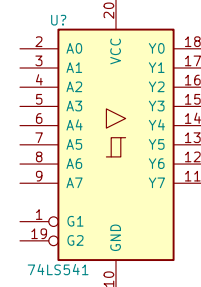
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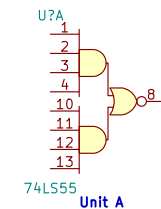
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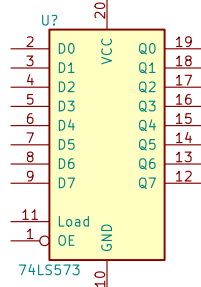
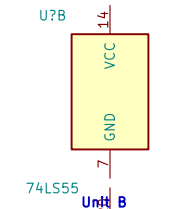
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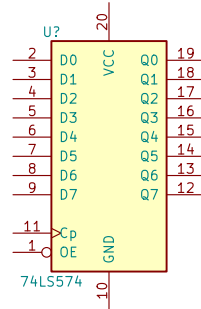
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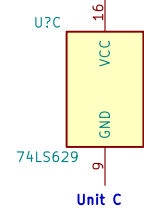
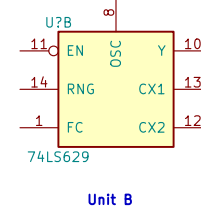
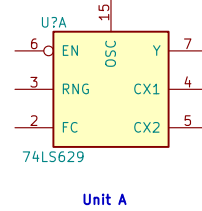
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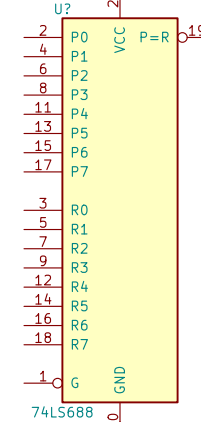
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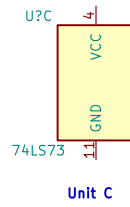
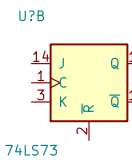
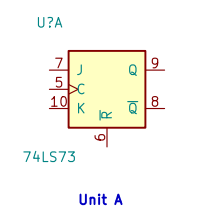
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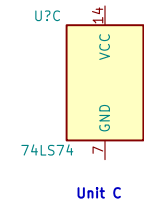
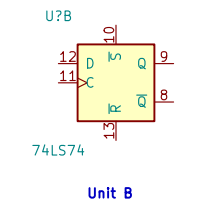
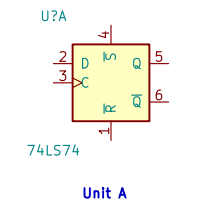
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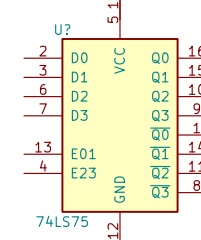
74LS73



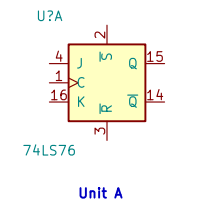
74LS74

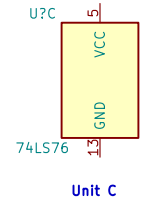
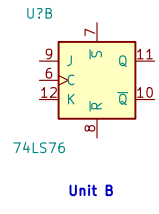


74LS75

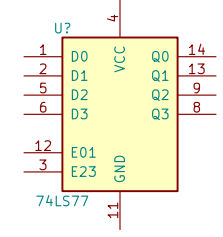


74LS76

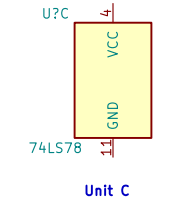
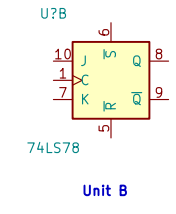
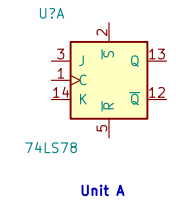




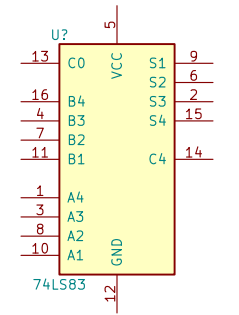
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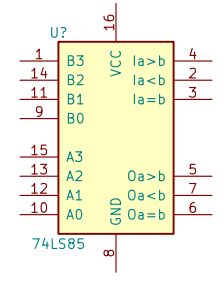
74LS78



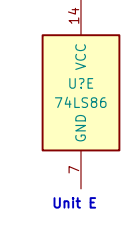
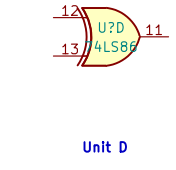
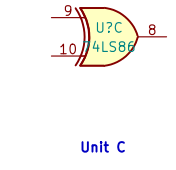
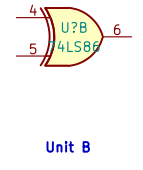
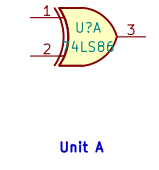
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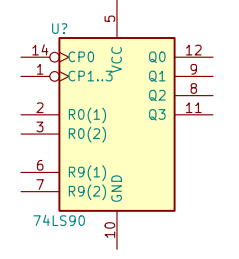
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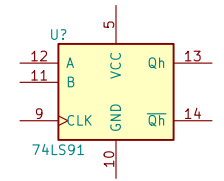
74LS86



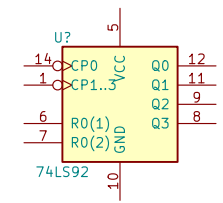
74LS90



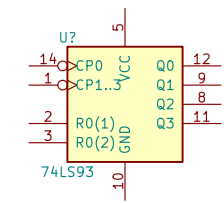
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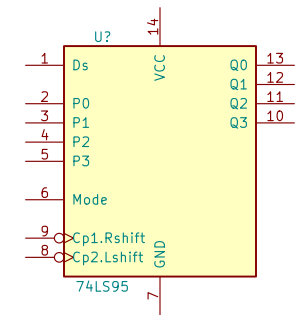
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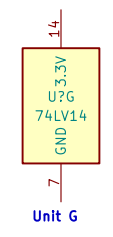
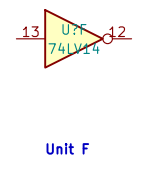
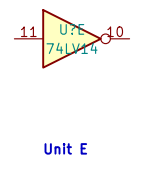
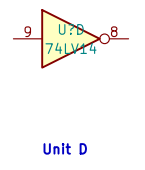
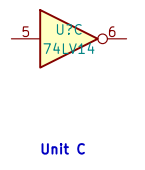
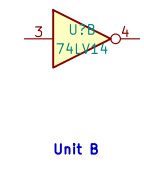
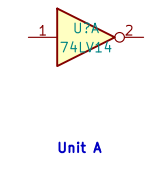
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74LS95



74LV14



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