Design Rules Verification ReportFilename: C:\Users\BENADUCE\Documents\GitHub\Dongle01\DONGLE01.PcbDoc

Warnings 0 Rule Violations 0

Warnings	
Total	0

Clearance Constraint (Gap-5mil) (not InNetClass('USBI') and not InNetClass('USBE')), (AII) 0 Short-Circuit Constraint (Allowed-No) (AII), (AII) 0 Un-Rouled Net Constraint (Allowed-No) (AII) 0 Modified Polygon (Allow modified: No), (Allow shelved: No) 0 Width Constraint (Min-3-937mil) (Max-50mil) (Preferred-10mil) (AII) 0 Rouling Topology, Rule(Topology-Shortest) (AII) 0 Rouling Lya ers(AII) 0 Rouling Lya ers(AII) 0 Rouling Via (MinHole-Width-7.874mil) (Max Hole-Width-39.37mil) (Preferred-Hole-Width-15.748mil) (MinWidth-13.78mil) 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min-4.506mil) (Max-4.506mil) (Max-4.506mil) and width 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min-4.506mil) (Max-4.506mil) and via constraint (Min-1mil) (Max-4.506mil) (Max-4.506mil) (Prefered-4.506mil) and 0 Power Plane Connect Rule(Relief Connect) (Expansion-20mil) (Conductor Width-10mil) (Air Gap-10mil) (Entries-4) 0 Hole Size Constraint (Min-1mil) (Max-100mil) (AII) 0 Pads and Vias to follow the Drill pairs settings 0 Hole To Hole Clearance (Gap-10mil) (AII), (AII) 0 Silk to Silder Mask (Clearance-1mil) (IsPad), (AII) 0 Silk to Silder Mask		
Short-Circuit Constraint (Allowed-No) (AII), (AII)	Rule Violations	
Un-Routed Net Constraint ((All)) 0 Modified Polygon (Allow modified: No), (Allow shelved: No) 0 Width Constraint (Min-a, 39,7mil) (Max = 50mil) (Preferred=10mil) (All) 0 Routing Topology Rule (Topology = Shortest) (All) 0 Routing Topology Rule (Topology = Shortest) (All) 0 Routing Via (MinHoleWidth=7,874mil) (Max HoleWidth=39,37mil) (PreferredHoleWidth=15,748mil) (MinWidth=13,78mil) 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4,506mil) (Max = 10mil) (Preferred=4,506mil) and Width 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4,506mil) (Max = 4,506mil) (Preferred=4,506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4,506mil) (Max = 4,506mil) (Preferred=4,506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4,506mil) (Max = 4,506mil) (Preferred=4,506mil) and 0 Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) 0 Hole Size Constraint (Min=1mil) (Max=100mil) (All) 0 Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (All) 0 Hole Size Constraint (Min=1mil) (Max=10mil) (All) 0 Hole To Hole Clearance (Gap=10mil) (All), All) 0 Silk to Silk (Cle	Clearance Constraint (Gap=5mil) (not InNetClass('USBI') and not InNetClass('USBE')),(All)	0
Modified Polygon (Allow modified: No), (Allow shelved: No) 0 Width Constraint (Min=3,937mil) (Max=50mil) (Preferred=10mil) (All) 0 Routing Topology Rule(Topology=Shortest) (All) 0 Routing Lyers(All) 0 Routing Lyers(All) 0 Routing Via (MinHoleWidth=7.874mil) (MaxHoleWidth=39.37mil) (PreferredHoleWidth=15.748mil) (MinWidth=13.78mil) 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=10mil) (Preferred=10mil) and Width 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) and 0 Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) (Preferred=4.506mil) (Pref	Short-Circuit Constraint (Allowed=No) (All),(All)	0
With Constraint (Min=3,937mil) (Max=50mil) (Preferred=10mil) (All) Routing Topology Rule(Topology=Shortest) (All) Routing Topology Rule(Topology=Shortest) (All) Routing Via (MinHoleWidth=7,874mil) (MaxHoleWidth=39,37mil) (PreferredHoleWidth=15,748mil) (MinWidth=13,78mil) Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=10mil) (Prefered=10mil) and Width Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) (Un-Routed Net Constraint ((All))	0
Rouling Topology Rule(Topology=Shortest) (AII) Rouling Layers(AII) Rouling Via (MinHoleWidth=7.874mil) (MaxHoleWidth=39.37mil) (PreferredHoleWidth=15.748mil) (MinWidth=13.78mil) Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=4.506mil) (Prefered=10mil) and Width Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Dewer Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Frefered=4.506mil) and Dewer Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Entries=4) Hole Size Constraint (Min=1mil) (Max=100mil) (AII) Pads and Vias to follow the Drill pairs settings Hole To Hole Clearance (Gap=10mil) (AII), (AII) Minimum Solder Mask (Clearance (Gap=6mil) (not InComponent("U2")), (AII) Differential Pairs Uncoupled Length using the Gap Constraint (Min=1mil) (Spad), (AII) Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) (Entries=4) Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) (Entries=4.506mil) and Dewer Plane Connect Rule (Relief Connect) (Expansion=20mil) (AII), (AII) Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) (Prefer	Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Routing Layers(All) Routing Via (MinHoleWidth=7.874mil) (MaxHoleWidth=39.37mil) (PreferredHoleWidth=15.748mil) (MinWidth=13.78mil) Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=10mil) (Prefered=10mil) and Width Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Dower Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Dower Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Dower Plane Connect Rule(Relief Connect) (Expansion=20mil) (Air Gap=10mil) (Air Gap	Width Constraint (Min=3.937mil) (Max=50mil) (Preferred=10mil) (All)	0
Routing Via (MinHoleWidth=7.874mil) (Max HoleWidth=39.37mil) (PreferedHoleWidth=15.748mil) (MinWidth=13.78mil) Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=4.506mil) (Prefered=4.506mil) and Width Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Depart Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Hole Size Constraint (Min=1mil) (Max=4.506mil) (AII) Pads and Vias to follow the Drill pairs settings Depart Plane Clearance (Gap=10mil) (AII),(AII) Minimum Solder Mask Sliver (Gap=6mil) (not InComponent(J1') and not InComponent(J2')),(AII) Silk To Solder Mask (Clearance=1mil) (IsPad),(AII) Silk To Solder Mask (Clearance=1mil) (IsPad),(AII) Depart Clearance (Constraint (Gap=0mil) (AII),(AII) Net Antennae (Tolerance=0mil) (AII),(AII) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE'))	Routing Topology Rule(Topology=Shortest) (All)	0
Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=4.506mil) (Max=4.506mil) (Max=4.506mil) (Max=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Dewer Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Debug Constraint (Min=1mil) (Max=100mil) (All) Debug Constraint (Min=1mil) (Max=100mil) (All) (Max=100mil) (All) Debug Clearance (Gap=10mil) (All), (All) Debug Clearance (Gap=10mil) (All), (All) Debug Clearance (Gap=10mil) (All), (All) Debug Clearance (Gap=10mil) (In Component(U2)), (All) Debug Clearance (Gap=10mil) (IsPad), (All) Debug Clearance (Init) (IsPad), (All) Debug Clearance (Init) (IsPad), (All) Debug Clearance (Ioerance	Routing Layers(All)	0
Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Max=4.	Routing Via (MinHoleWidth=7.874mil) (MaxHoleWidth=39.37mil) (PreferredHoleWidth=15.748mil) (MinWidth=13.78mil)	0
Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and Power Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Hole Size Constraint (Min=1mil) (Max=100mil) (AII) Pads and Vias to follow the Drill pairs settings OHole To Hole Clearance (Gap=10mil) (AII), (AII) Minimum Solder Mask Silver (Gap=6mil) (not InComponent(J1') and not InComponent(J2'), (AII) Silk To Solder Mask (Clearance=1mil) (IsPad), (AII) OSIlk to Silk (Clearance=10mil) (AII), (AII) ONEI Antennae (Tolerance=0mil) (AII) Board Clearance Constraint (Gap=0mil) (AII) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE'))	Differential Pairs Uncoupled Length using the Gap Constraints (Min=10mil) (Max=10mil) (Prefered=10mil) and Width	0
Power Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) Hole Size Constraint (Min=1mil) (Max=100mil) (All) Pads and Vias to follow the Drill pairs settings Hole To Hole Clearance (Gap=10mil) (All), (All) Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('J1') and not InComponent('U2')), (All) Silk To Solder Mask (Clearance=1mil) (IsPad), (All) Silk to Silk (Clearance=10mil) (All), (All) Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths (Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths (Delay Tolerance=100ps) (InNetClass('USBI'))	Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and	0
Hole Size Constraint (Min=1mil) (Max=100mil) (All) Pads and Vias to follow the Drill pairs settings Hole To Hole Clearance (Gap=10mil) (All),(All) Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('J1') and not InComponent('U2')),(All) Silk To Solder Mask (Clearance=1mil) (IsPad),(All) Silk to Silk (Clearance=10mil) (All),(All) Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE'))	Differential Pairs Uncoupled Length using the Gap Constraints (Min=4.506mil) (Max=4.506mil) (Prefered=4.506mil) and	0
Pads and Vias to follow the Drill pairs settings Hole To Hole Clearance (Gap=10mil) (All), (All) Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('U2'), (All) Silk To Solder Mask (Clearance=1mil) (IsPad), (All) Silk to Silk (Clearance=10mil) (All), (All) Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole To Hole Clearance (Gap=10mil) (AII),(AII) Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('J1') and not InComponent('U2')),(AII) Silk To Solder Mask (Clearance=1mil) (IsPad),(AII) Silk to Silk (Clearance=10mil) (AII),(AII) Net Antennae (Tolerance=0mil) (AII) Board Clearance Constraint (Gap=0mil) (AII) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Hole Size Constraint (Min=1mil) (Max=100mil) (All)	0
Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('J1') and not InComponent('U2')), (All) Silk To Solder Mask (Clearance=1mil) (IsPad), (All) Silk to Silk (Clearance=10mil) (All), (All) Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Pads and Vias to follow the Drill pairs settings	0
Silk To Solder Mask (Clearance=1mil) (IsPad), (All) Silk to Silk (Clearance=10mil) (All), (All) Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths (Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths (Delay Tolerance=100ps) (InNetClass('USBI'))	Hole To Hole Clearance (Gap=10mil) (All),(All)	0
Silk to Silk (Clearance=10mil) (AII),(AII) Net Antennae (Tolerance=0mil) (AII) Board Clearance Constraint (Gap=0mil) (AII) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Minimum Solder Mask Sliver (Gap=6mil) (not InComponent('J1') and not InComponent('U2')),(All)	0
Net Antennae (Tolerance=0mil) (All) Board Clearance Constraint (Gap=0mil) (All) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI')) 0 Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Silk To Solder Mask (Clearance=1mil) (IsPad),(All)	0
Board Clearance Constraint (Gap=0mil) (All) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI')) 0 Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Silk to Silk (Clearance=10mil) (All),(All)	0
Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE')) Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI')) 0	Net Antennae (Tolerance=0mil) (All)	0
Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	Board Clearance Constraint (Gap=0mil) (All)	0
	Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBE'))	0
Total 0	Matched Lengths(Delay Tolerance=100ps) (InNetClass('USBI'))	0
	Total	0

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