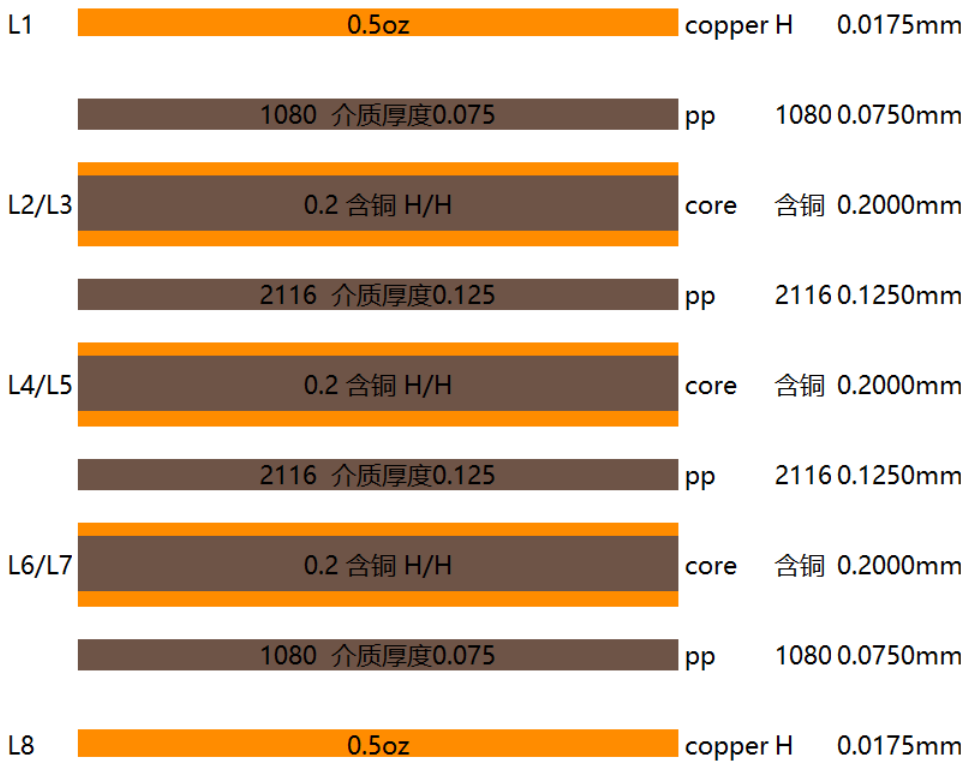
Stack Impedance Report

Layer Count: 8

Stack Design Pictures:



Board Thickness Report

,	[redacted]
Pressing Thickness:	1.0035 mm

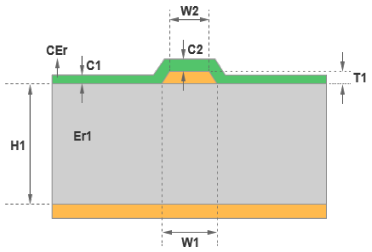
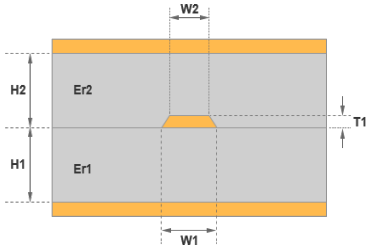
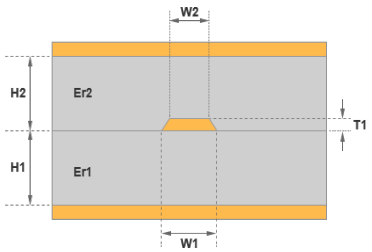
Impedance List(Line Width, Line Spacing, Distance To Copper Unit:mil)

S/N	Mode	Layer	Upper Refer	Lower Refer	Track Width	Track Spacing	Ground To Strip	Demand(ohm)	Diff(ohm)	Actual (ohm)
1	Outer Single	L1	/	L2	3.64	/	/	50.00	(+/-10%)	50.00
2	Inner Single	L3	L2	L4	3.43	/	/	50.00	(+/-10%)	50.00
3	Inner Single	L6	L5	L7	3.43	/	/	50.00	(+/-10%)	50.00
4	Outer Single	L8	L7	/	3.64	/	/	50.00	(+/-10%)	50.00
5	Outer Single	L1	/	L2	4.97	/	/	43.00	(+/-10%)	43.00
6	Inner Single	L3	L2	L4	4.69	/	/	43.00	(+/-10%)	43.00
7	Inner Single	L6	L5	L7	4.69	/	/	43.00	(+/-10%)	43.00
8	Outer Single	L8	L7	/	4.97	/	/	43.00	(+/-10%)	43.00
9	Outer Diff	L1	/	L2	3.50	4.18	/	90.00	(+/-10%)	90.00
10	Inner Diff	L3	L2	L4	3.50	4.87	/	90.00	(+/-10%)	90.00
11	Inner Diff	L6	L5	L7	3.50	4.87	/	90.00	(+/-10%)	90.00
12	Outer Diff	L8	L7	/	3.50	4.18	/	90.00	(+/-10%)	90.00

Impedance List(Line Width, Line Spacing, Distance To Copper Unit:mil)

S/N	Mode	Layer	Upper Refer	Lower Refer	Track Width	Track Spacing	Ground To Strip	Demand(ohm)	Diff(ohm)	Actual (ohm)
13	Outer Diff	L1	/	L2	3.70	3.50	/	85.00	(+/-10%)	85.00
14	Inner Diff	L3	L2	L4	3.50	3.57	/	85.00	(+/-10%)	85.00
15	Inner Diff	L6	L5	L7	3.50	3.57	/	85.00	(+/-10%)	85.00
16	Outer Diff	L8	L7	/	3.70	3.50	/	85.00	(+/-10%)	85.00

Impedance Calculation Diagram

Calculation Mode	Calculation Paramameter	Impedance Infomation
	W1 : 3.64 W2 : 2.64 H1 : 2.4705 Er1 : 4.2000 C1 : 0.7992 C2 : 0.5984 CEr : 3.5000	Outer Single Control Layer: L1 Reference: &L2 Lower Trace Width:3.64mil Demand Impedance: 50.00 (+/-10%) ohm Actual Impedance: 50.00 ohm
	W1 : 3.43 W2 : 2.93 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Single Control Layer: L3 Reference: L2&L4 Lower Trace Width:3.43mil Demand Impedance: 50.00 (+/-10%) ohm Actual Impedance: 50.00 ohm
	W1 : 3.43 W2 : 2.93 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Single Control Layer: L6 Reference: L5&L7 Lower Trace Width:3.43mil Demand Impedance: 50.00 (+/-10%) ohm Actual Impedance: 50.00 ohm

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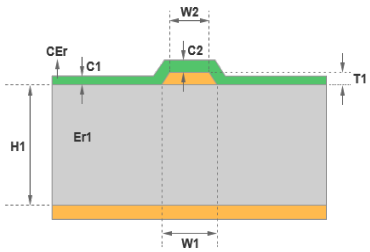
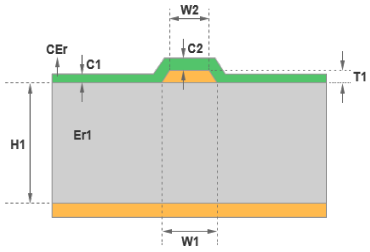
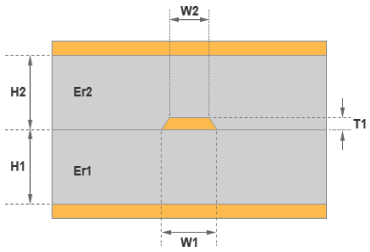
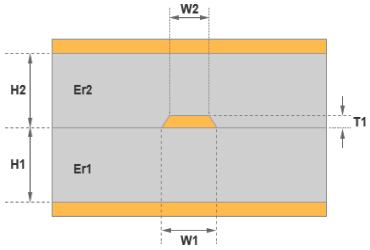
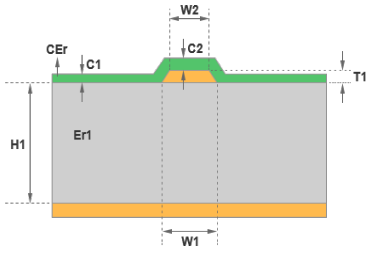
Impedance Calculation Diagram

Calculation Mode	Calculation Paramameter	Impedance Infomation
	W1 : 3.64 W2 : 2.64 H1 : 2.4705 Er1 : 4.2000 C1 : 0.7992 C2 : 0.5984 CEr : 3.5000	Outer Single Control Layer: L8 Reference: L7& Lower Trace Width:3.64mil Demand Impedance: 50.00 (+/-10%) ohm Actual Impedance: 50.00 ohm
	W1 : 4.97 W2 : 3.97 H1 : 2.4705 Er1 : 4.2000 C1 : 0.7992 C2 : 0.5984 CEr : 3.5000	Outer Single Control Layer: L1 Reference: &L2 Lower Trace Width:4.97mil Demand Impedance: 43.00 (+/-10%) ohm Actual Impedance: 43.00 ohm
	W1 : 4.69 W2 : 4.19 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Single Control Layer: L3 Reference: L2&L4 Lower Trace Width:4.69mil Demand Impedance: 43.00 (+/-10%) ohm Actual Impedance: 43.00 ohm
	W1 : 4.69 W2 : 4.19 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Single Control Layer: L6 Reference: L5&L7 Lower Trace Width:4.69mil Demand Impedance: 43.00 (+/-10%) ohm Actual Impedance: 43.00 ohm
	W1 : 4.97 W2 : 3.97 H1 : 2.4705 Er1 : 4.2000 C1 : 0.7992 C2 : 0.5984 CEr : 3.5000	Outer Single Control Layer: L8 Reference: L7& Lower Trace Width:4.97mil Demand Impedance: 43.00 (+/-10%) ohm Actual Impedance: 43.00 ohm

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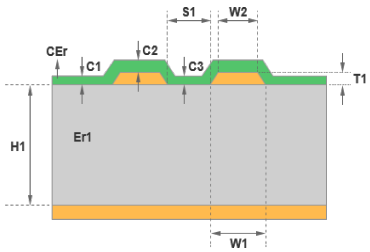
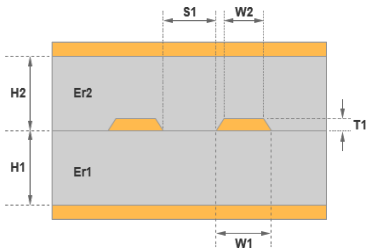
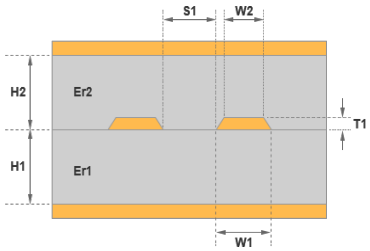
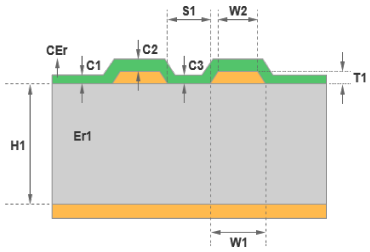
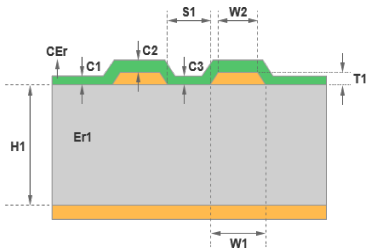
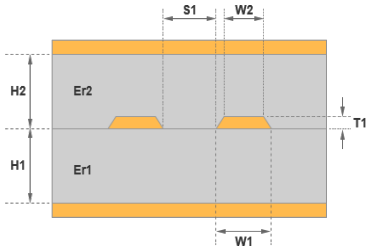
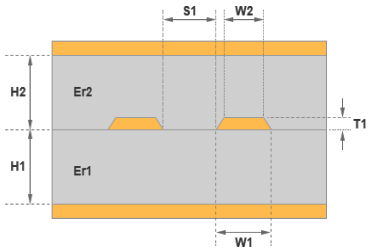
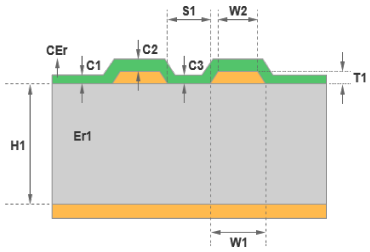
Impedance Calculation Diagram

Calculation Mode	Calculation Paramameter	Impedance Infomation
	W1 : 3.50 W2 : 2.50 S1 : 4.18 H1 : 2.4705 Er1 : 4.2000 T1 : 1.3780 C1 : 0.7992 C2 : 0.5984 C3 : 0.7992 CEr : 3.5000	Outer Diff Control Layer: L1 Reference: &L2 Lower Trace Width:3.50mil Trace Separation:4.18mil Demand Impedance: 90.00 (+/-10%) ohm Actual Impedance: 90.00 ohm
	W1 : 3.50 W2 : 3.00 S1 : 4.87 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Diff Control Layer: L3 Reference: L2&L4 Lower Trace Width:3.50mil Trace Separation:4.87mil Demand Impedance: 90.00 (+/-10%) ohm Actual Impedance: 90.00 ohm
	W1 : 3.50 W2 : 3.00 S1 : 4.87 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Diff Control Layer: L6 Reference: L5&L7 Lower Trace Width:3.50mil Trace Separation:4.87mil Demand Impedance: 90.00 (+/-10%) ohm Actual Impedance: 90.00 ohm
	W1 : 3.50 W2 : 2.50 S1 : 4.18 H1 : 2.4705 Er1 : 4.2000 T1 : 1.3780 C1 : 0.7992 C2 : 0.5984 C3 : 0.7992 CEr : 3.5000	Outer Diff Control Layer: L8 Reference: L7& Lower Trace Width:3.50mil Trace Separation:4.18mil Demand Impedance: 90.00 (+/-10%) ohm Actual Impedance: 90.00 ohm

Impedance Calculation Diagram

Calculation Mode	Calculation Paramameter	Impedance Infomation
	W1 : 3.70 W2 : 2.70 S1 : 3.50 H1 : 2.4705 Er1 : 4.2000 T1 : 1.3780 C1 : 0.7992 C2 : 0.5984 C3 : 0.7992 CEr : 3.5000	Outer Diff Control Layer: L1 Reference: &L2 Lower Trace Width:3.70mil Trace Separation:3.50mil Demand Impedance: 85.00 (+/-10%) ohm Actual Impedance: 85.00 ohm
	W1 : 3.50 W2 : 3.00 S1 : 3.57 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Diff Control Layer: L3 Reference: L2&L4 Lower Trace Width:3.50mil Trace Separation:3.57mil Demand Impedance: 85.00 (+/-10%) ohm Actual Impedance: 85.00 ohm
	W1 : 3.50 W2 : 3.00 S1 : 3.57 H1 : 6.4961 H2 : 3.9567 Er1 : 4.2000 Er2 : 4.2000 T1 : 0.6890	Inner Diff Control Layer: L6 Reference: L5&L7 Lower Trace Width:3.50mil Trace Separation:3.57mil Demand Impedance: 85.00 (+/-10%) ohm Actual Impedance: 85.00 ohm
	W1 : 3.70 W2 : 2.70 S1 : 3.50 H1 : 2.4705 Er1 : 4.2000 T1 : 1.3780 C1 : 0.7992 C2 : 0.5984 C3 : 0.7992 CEr : 3.5000	Outer Diff Control Layer: L8 Reference: L7& Lower Trace Width:3.70mil Trace Separation:3.50mil Demand Impedance: 85.00 (+/-10%) ohm Actual Impedance: 85.00 ohm