

Tech Driven	Class 2	Class 3	Class 3A (DS)
Layer Count	2 to 36	To 36 Layer	To 36 Layer
Laminate Material			
FR4 Tg 170	Yes	Yes	Yes
Rogers - All High Frequencies	Yes	Yes	Yes
PTFE Double Sided	Yes	Yes	Yes
BT Double Sided	Yes	Yes	Yes
Polyimide	Yes	Yes	Yes
Duroid	Yes	Yes	Yes
RoHS Materials			
Polyclad 370 HR	Yes	Yes	Yes
Isola IS 410	Yes	Yes	Yes
TUC	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes
Exotic Material Types	Yes	Yes	Yes
Finished Thickness			
Finished Thickness (Double sided)	.005" to .350"	> .350"	.005" to .350"
Finished Thickness (Multilayer)	.005" to .220"	Up to 250"	Up to 250"
Minimum Core Thickness	.002"	0.0035	0.0035
Finished Thickness Tolerance [+/-]	10%	10% or negotiated	10% or negotiated
Multiple Laminations	6	5	5
Copper Foil Weights Internal	1 / 4 to 3 oz.	1 / 2 to 4 oz.	1 / 2 to 4 oz.
Copper Foil Weights External	1/4 to 3 oz.	1 to 4 oz.	1 to 4 oz.
Lines, Spaces & Pad Diameter			
Internal Line Width	.0035"	.0035"	.0035"
Internal Spacing	.0035"	0.0035"	0.0035"
External Line Width	.0035"	.0035"	.0035"
External Spacing	.0035"	.002"	< .002"
Int. Pad Size-AR	.25% BO	0.001 AR	.001 AR
Ext. Pad Size- AR	.003"	0.002	0.002
SMT Pitch	.011"	.010"	Less than .010"
Impedance	10%	5% Available	5% Available
Electroplating			
Tin Lead Plating Thickness	Covered and Solderable	Covered and Solderable	Covered and Solderable
Tin Lead As Plated (No Reflow)	8um (0.0315 uin)	8um (0.0315 uin)	8um (0.0315 uin)
Low Stress Nickel	2.5um (98.4 uin)	2.5um (98.4 uin)	2.5um (98.4 uin)
Gold Plating Thickness (edge connector)	0.8 um (30 uin)	1.25um (50 uin)	1.25um (50 uin)
Wrap and Cap	5um	12um	12um
Hole Aspect Ratio	10 to 1	15 to 1	15 to 1