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HONYA EUROPE

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Structure		
Layer Count	2, 4, 6, 8, 10,12	2, 4, 6, 8, 10, 12, 14, 16
HDI Technology	For Sample	Run Production
Board Thickness(Min)	24mil	24mil
Board Thickness(Max)	126mil	126mil
Copper Foil		
Copper foil outer layer	1/2oz-10oz	1/2oz-10oz
Copper foil inner layer	1/2oz-3oz	1/2oz-3oz
Drill		
Plating hole tolerance	/-3mil	/-3mil
Non-plating hole tolerance	/-2mil	/-2mil
Min. Drill Bit	0.25mm	0.25mm
Dielectric thickness		
Core thickness (Min)	3mil	3mil
Dielectric thickness (prepreg)	2mil	2mil
Finished board thickness tolerance	/-10% FBT \geq 50mil /-12% 24mil \leq FBT $<$ 50mil /-3mil FBT $<$ 24mil	/-10% FBT \geq 50mil /-12% 24mil \leq FBT $<$ 50mil /-3mil FBT $<$ 24mil

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Solder mask		
Solder Mask Dam (Min)	3mil	3mil
Solder Mask Opening (Min)	2.5mil	2.5mil
Solder Mask plug hole size	0.3mm-0.7mm	0.25mm-0.7mm
Registration Capability		
Layer to Layer	3mil	3mil
Plating Capability		
Aspect Ratio (Mechanical)	10 : 1	12 : 1
Aspect Ratio (Laser)	0.8 : 1	0.8 : 1
Electrical / RF Capability		
Min line width/space (Inner ½ oz)	4mil / 4mil	4mil / 4mil
Min line width/space (Inner 1oz)	4mil / 4mil	4mil / 4mil
Min line width/space (Outer ½ oz)	4mil / 4mil	4mil / 4mil
Line tolerance	±20%	±20%

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Impedance		
Impedance Control	YES	YES
Impedance Tolerance	/-10%	/-10%
Outline		
Routing tolerance	/-5mil	/-5mil
Punching tolerance	/-4mil	/-4mil
V-cut angle	30degree, 45degree, 60degree	30degree, 45degree, 60degree
V-cut tolerance	/-3degree	/-3degree
V-cut web thickness tolerance	/-3mil	/-3mil
Surface Finished		
Organic Solderability preservative	Yes	Yes
Electroless Nickel / immersion Gold	Yes	Yes
Immersion Silver	Yes	Yes
Lead Free HASL	Yes	Yes
Immersion Tin	Yes	Yes
E-Test		
Test Voltage	25v-250v	25v-250v
Insulation resistance	2M ohms- 100M ohms	2M ohms- 100M ohms
Continuity	5 ohms – 1k ohms	5 ohms – 1k ohms

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