

**HONYA**[www.honyapcb.eu](http://www.honyapcb.eu)

HONYA EUROPE

HONYA INT

<b>Structure</b>		
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
<b>Copper Foil</b>		
Copper foil outer layer	1/2oz-10oz	1/2oz-10oz
Copper foil inner layer	1/2oz-3oz	1/2oz-3oz
<b>Drill</b>		
Plating hole tolerance	/-3mil	/-3mil
Non-plating hole tolerance	/-2mil	/-2mil
Min. Drill Bit	0.25mm	0.25mm
<b>Dielectric thickness</b>		
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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<b>Solder mask</b>		
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
<b>Registration Capability</b>		
Layer to Layer	3mil	3mil
<b>Plating Capability</b>		
Aspect Ratio (Mechanical)	10 : 1	12 : 1
Aspect Ratio (Laser)	0.8 : 1	0.8 : 1
<b>Electrical / RF Capability</b>		
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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<b>Impedance</b>		
Impedance Control	YES	YES
Impedance Tolerance	/-10%	/-10%
<b>Outline</b>		
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
<b>Surface Finished</b>		
Organic Solderability preservative	Yes	Yes
Electroless Nickel / immersion Gold	Yes	Yes
Immersion Silver	Yes	Yes
Lead Free HASL	Yes	Yes
Immersion Tin	Yes	Yes
<b>E-Test</b>		
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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