	5	Super WiFi n			
	Copper Thickness	Dielectric	Thickness	Tolerance 10%	
Layer Purpose	(mil)	um	mil	material	e_r
				PSR-4000BN (semi gloss)	4.5
01 microstrip	1.6			1 oz. copper	
		226.77	5.76	FR406 1080 pre-preg (2.88, 2.88 mil)	3.61
02 ground plane	1.2			1/2 oz. copper	
		314.96	8	Isola FR406 0.008" 1/1 Core	4.04
03 stripline	1.2			1/2 oz. copper	
		207.87	5.28	FR406 1080 pre-preg (2.64, 2.64 mil)	3.61
04 plane	1.2			1/2 oz. copper	
		314.96	8	Isola FR406 0.008" 1/1 Core	4.04
05 stripline	1.2			1/2 oz. copper	
		226.77	5.76	FR406 1080 pre-preg (2.88, 2.88 mill)	3.61
06 power plane	1.6			1 oz. copper	
				PSR-4000BN (semi gloss)	4.5
Subtotal:	8		32.8		
Total:		mills	40.8	4.08	
		mm	1.04	0.10	
PCI-Express Half-Size Module					
Layer Name	Copper Thickness	Dielectric	Thickness	Material	Dk
Layer Name				Material	
	Copper Thickness mil	Dielectric	Thickness	Material PSR-4000BN (semi gloss)	Dk 4.5
Layer Name 01 Top Layer	Copper Thickness	Dielectric 1	Thickness mil	Material PSR-4000BN (semi gloss) 1 oz. copper	4.5
	Copper Thickness mil	Dielectric mm 0.13	Thickness mil 5.1	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G)	4.5 4.25
01 Top Layer	Copper Thickness mil	Dielectric 1	Thickness mil 5.1	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D)	4.5
	Copper Thickness mil	Dielectric mm 0.13 0.12	Thickness mil 5.1 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper	4.25 4.25
01 Top Layer 02 InternalPlane1 (GND)	Copper Thickness mil 1.35	Dielectric mm 0.13	Thickness mil 5.1 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core	4.5 4.25
01 Top Layer	Copper Thickness mil	0.13 0.12	Thickness mil 5.1 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper	4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND)	Copper Thickness mil 1.35	0.13 0.12 0.36	5.1 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D)	4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1	Copper Thickness mil 1.35 1.35	0.13 0.12	5.1 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D)	4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND)	Copper Thickness mil 1.35	0.13 0.12 0.36 0.12	5.1 4.7 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper	4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.)	Copper Thickness mil 1.35 1.35 1.35	0.13 0.12 0.36	5.1 4.7 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core	4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1	Copper Thickness mil 1.35 1.35	0.13 0.12 0.36 0.12 0.36	5.1 4.7 14 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper	4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.)	Copper Thickness mil 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36 0.12	5.1 4.7 14 4.7 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D)	4.25 4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.) 05 MidLayer2	1.35 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36	5.1 4.7 14 4.7 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (G)	4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.)	Copper Thickness mil 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36 0.12	5.1 4.7 14 4.7 4.7 4.7	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (G) 1 oz. copper	4.25 4.25 4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.) 05 MidLayer2 06 Bottom Layer	1.35 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36 0.12	5.1 4.7 14 4.7 4.7 14 4.7 5.1	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (G) 1 oz. copper PSR-4000BN (semi gloss)	4.25 4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.) 05 MidLayer2 06 Bottom Layer Subtotal:	1.35 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36 0.12 0.36	5.1 4.7 14 4.7 4.7 5.1	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (G) 1 oz. copper PSR-4000BN (semi gloss)	4.25 4.25 4.25 4.25 4.25 4.25 4.25 4.25
01 Top Layer 02 InternalPlane1 (GND) 03 MidLayer1 04 InternalPlane2 (.) 05 MidLayer2 06 Bottom Layer	1.35 1.35 1.35 1.35	0.13 0.12 0.36 0.12 0.36 0.12	5.1 4.7 14 4.7 4.7 14 4.7 5.1	Material PSR-4000BN (semi gloss) 1 oz. copper Isola FR402 2116 pre-preg (G) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) 1 oz. copper Isola FR402 0.014" core 1 oz. copper Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (D) Isola FR402 2116 pre-preg (G) 1 oz. copper PSR-4000BN (semi gloss)	4.25 4.25 4.25 4.25 4.25 4.25 4.25 4.25