



Customer: Surtek - UBC Thunderbots

Job Name: STEK-MOTORDRIVER-V5.

Part Num: Motor Driver

User Name: John Parsons

Part Rev: 5.1

Req. Thick: 63.0

Layer	Base CU / Plt	Thick	Type	Stackup	Subs	Material
Silkscreen		0.3				Generic - White
Soldermask		0.5				Generic SM - Semi-Gloss Green
Lyr1	1/2oz / Std	1.9	S			
Prepreg		7.8				FR4 Hi-Tg - 1x2113/1x2116
Lyr2	1oz	1.4	P			
Core		14.0				FR4 Hi-Tg - 14.0mils
Lyr3	1oz	1.4	S			
Prepreg		11.1				FR4 Hi-Tg - 3x2116
Lyr4	1oz	1.4	S			
Core		14.0				FR4 Hi-Tg - 14.0mils
Lyr5	1oz	1.4	P			
Prepreg		7.8				FR4 Hi-Tg - 1x2113/1x2116
Lyr6	1/2oz / Std	1.9	S			
Soldermask		0.5				Generic SM - Semi-Gloss Green
Silkscreen		0.3				Generic - White

### Required Thickness

Type	Req. Thick	Tol% +	Tol% -	Act. Thick	Measured
Overall	63.0	10.0	10.0	65.7	
Over lamination	59.6	10.0	10.0	61.7	
Over laminate	58.3	10.0	10.0	60.4	
Over metal	62.0	10.0	10.0	64.1	

### Bill of Materials

Material	Type	Qty/Panel	Total
14.0mils 1/1 core	core	2	2
1/2oz foil	foil	2	2
2113 prepreg	prepreg	2	2
2116 prepreg	prepreg	5	5

### Comments

Note that this stack-up requires the addition of copper balancing on the inner signal layers.