

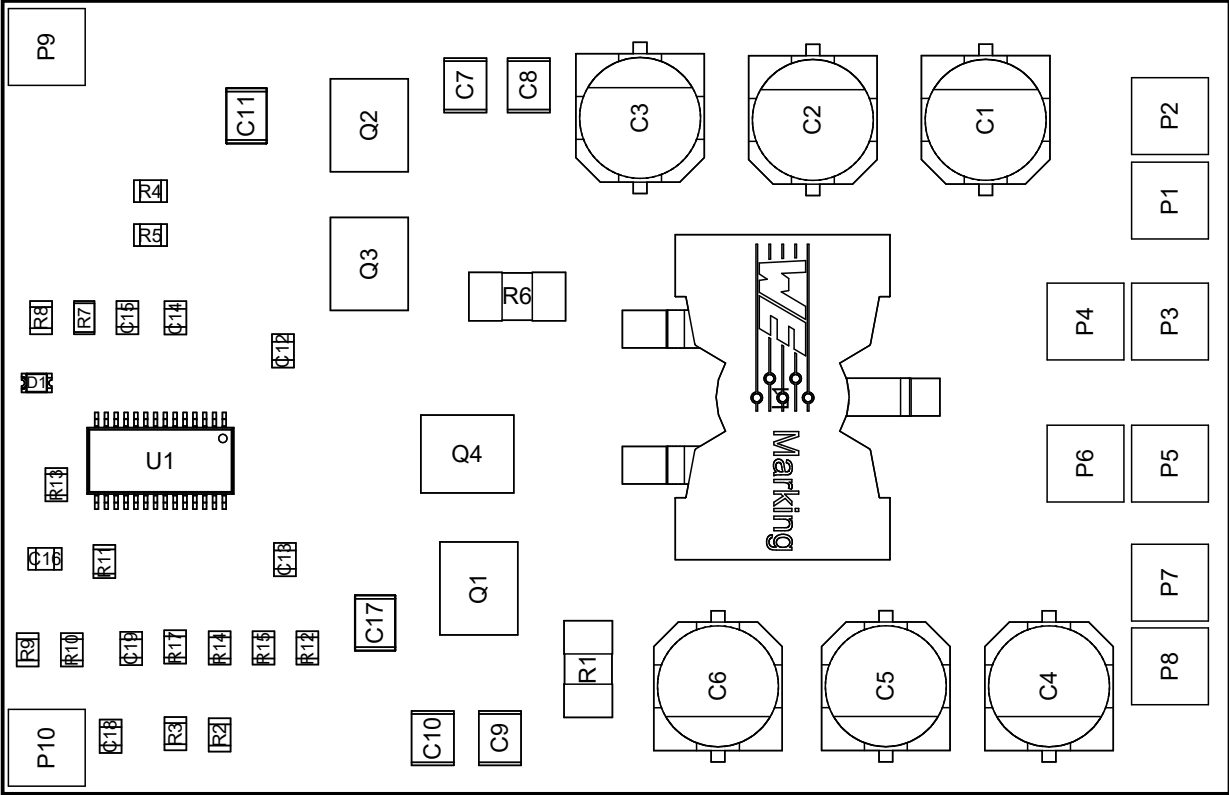
A

B

C

D

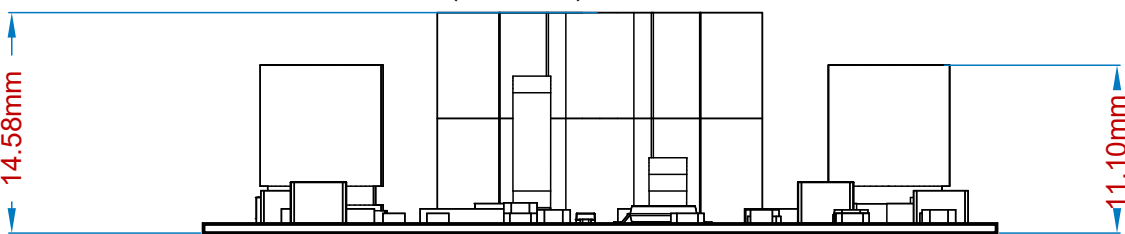
View from Top side (Scale 2:1)



81.15mm

52.45mm

View from Left side (Scale 2:1)



14.58mm

11.10mm

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Loowatt Ltd		
		DIMENSIONS ARE IN INCHES	DRAWN	Darvesh.V	15/05/2020	TITLE DC/DC Buck Boost - PowerMotor PCB		
		TOLERANCES:	CHECKED					
		FRACTIONAL±	ENG APPR.					
		ANGULAR: MACH± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.					
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE DWG. NO. GEN2-BB-V003		
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL				SCALE: 1:1 WEIGHT: SHEET 1 OF 4		
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING						

A

B

C

D

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
Prepreg		0.07mm	PP-006	Dielectric	
CF-004	Layer 1	0.04mm		Signal	G1
		0.32mm	FR-4	Dielectric	
CF-004	Layer 2	0.04mm		Signal	G2
Prepreg		0.07mm	PP-006	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 0.62mm					

Bill Of Materials

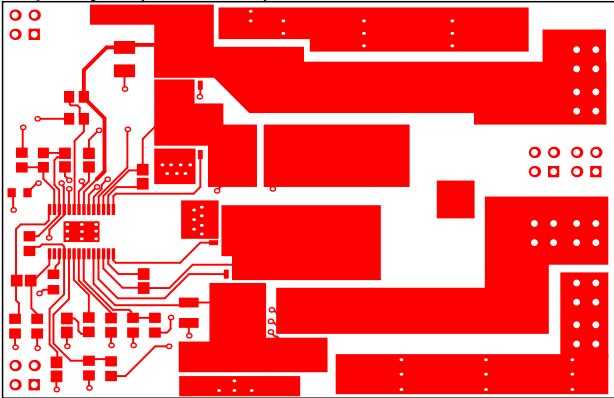
Line #	Designator	Comment	Quantity	Layer	Manufacturer
1	C1, C2, C3, C4, C5, C6	EEEFK1J470P	6	Top	Panasonic
2	C7, C8, C9, C10	CGA6M3X7S2A475K200AB	4	Top	TDK
3	C11, C17	12101C105KAT2A	2	Top	AVX
4	C12, C13, C18	08055C104JAT2A	3	Top	AVX
5	C14	0805ZD475KAT2A	1	Top	AVX Interconnect / Elco
6	C15	08055C474JAT2A	1	Top	AVX Interconnect / Elco
7	C16	DNF	1	Top	
8	C19	08055C103JAT2A	1	Top	AVX Interconnect / Elco
9	D1	150080RS75000	1	Top	Würth Elektronik
10	L1	7443631000	1	Top	Würth Elektronik
11	P1, P2, P3, P4, P5, P6, P7, P8, P9, P10	TLW-102-06-G-D	10	Top	Samtec Inc
12	Q1, Q2, Q3, Q4	BSC027N04LSGATMA1	4	Top	Infineon
13	R1	ERJ-MS4HF10MU	1	Top	Panasonic
14	R2	ERJ-6ENF1503V	1	Top	Panasonic
15	R3	ERJ-6GEYJ133V	1	Top	Panasonic
16	R4	ERJ-6ENF1693V	1	Top	Panasonic
17	R5	ERJ-6GEYJ333V	1	Top	Panasonic
18	R6	ERJ-MS4SF4M0U	1	Top	
19	R7	ERA-6AEB103V	1	Top	Panasonic
20	R8	ERJ-6ENF8251V	1	Top	Panasonic
21	R9, R10, R12	ERJ-6GEY0R00V	3	Top	Panasonic
22	R11	CRCW0805390RFKEA	1	Top	Vishay Dale
23	R13, R15	DNF	2	Top	
24	R14	ERA6AEB104V	1	Top	Panasonic
25	R17	ERA6AEB222V	1	Top	Panasonic
26	U1	LT8390EFE#PBF	1	Top	Linear Technology/ Analog Devices

DNF - Do not place
(R13,R15,C16)

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		THREE PLACE DECIMAL ±	COMMENTS:			TITLE			
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL							
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.		
						GEN2-BB-V003			
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 2 OF 4

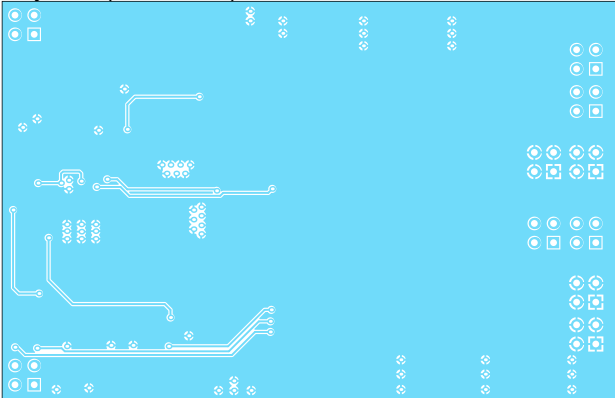
Top Layer (Scale 1:1)



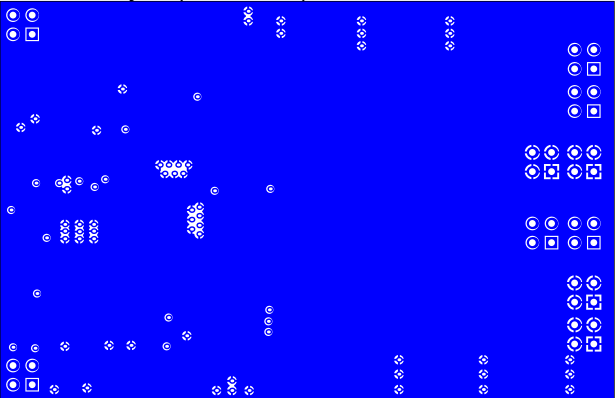
Layer 1 (Scale 1:1)



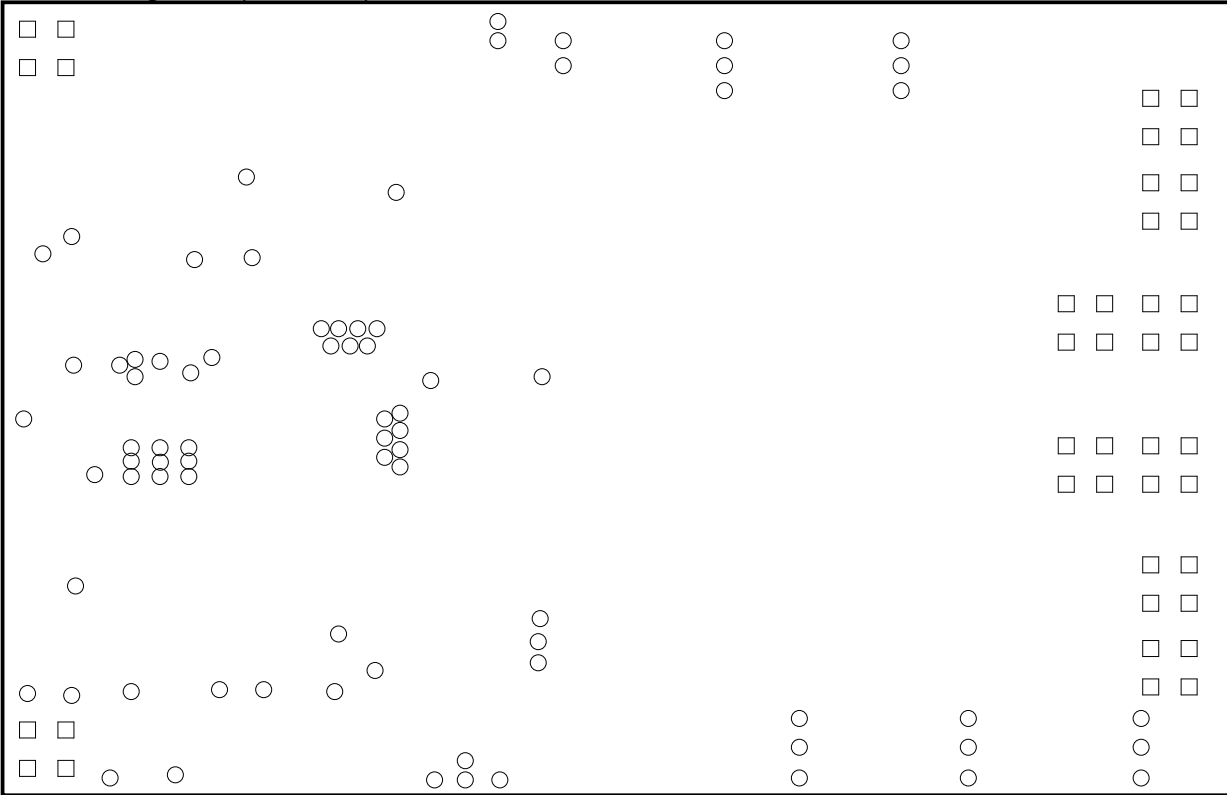
Layer 2 (Scale 1:1)



Bottom Layer (Scale 1:1)



Drill Drawing View (Scale 2:1)



Drill Table

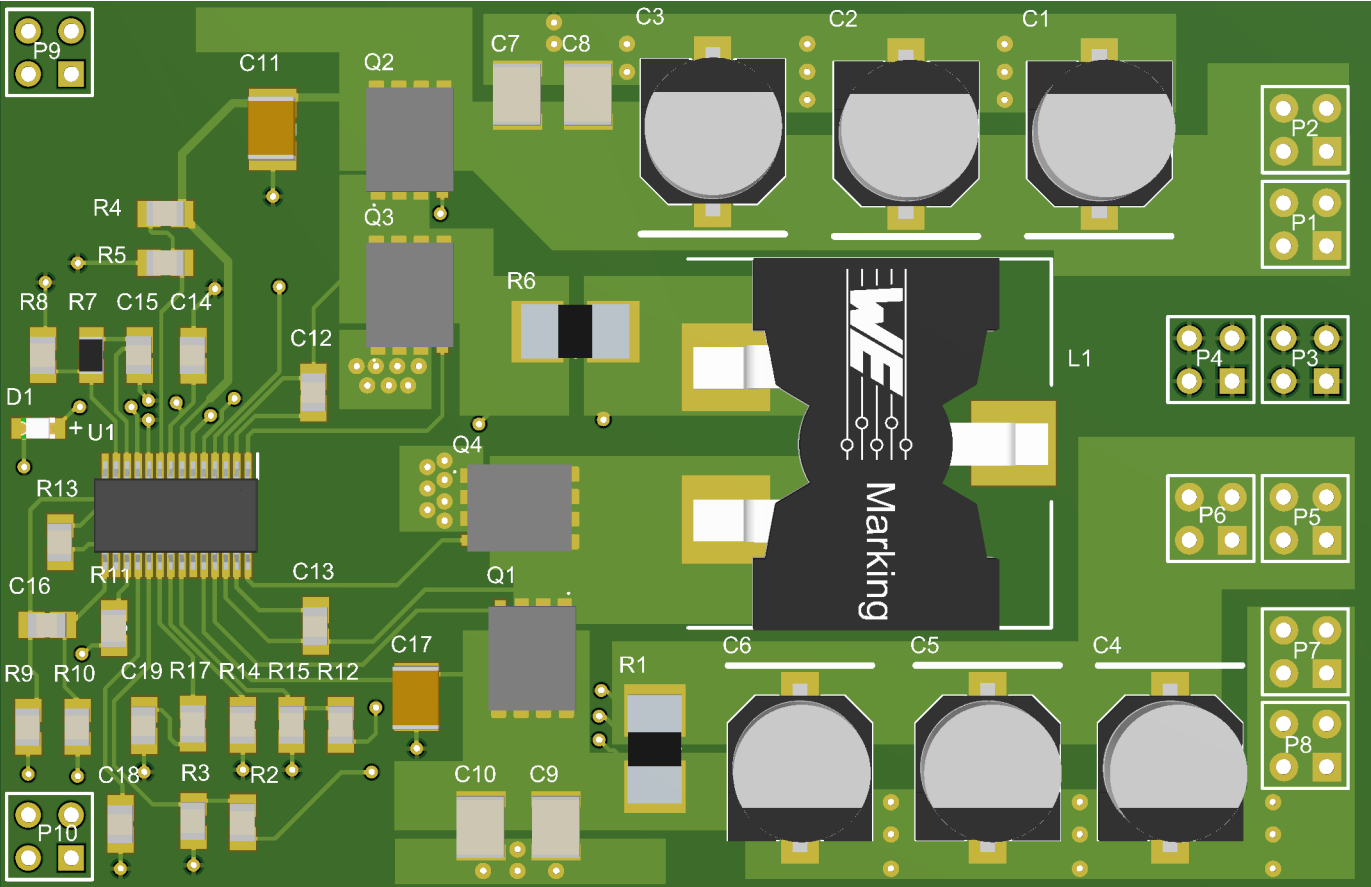
Symbol	Count	Hole Size	Plated	Hole Tolerance
○	77	0.38mm	Plated	None
□	40	0.90mm	Plated	None
	117 Total			

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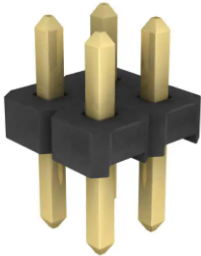
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		MATERIAL				SIZE	DWG. NO.		
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 3 OF 4

Realistic View



MALE HEADERS -
P1,P2,P3,P4,P5,P6,
P7,P8,P9,P10



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