













Source Data From:	:	PowerDistributi	ion.PriPcb									
Project:	•	PowerDistributi		=								
Variant:		None		_								
	5/26/2017 26-May-17	3:30:23 PM 3:30:40 PM										
	1 <none></none>		- - -									
ootprint	Comment	LibRef	Designator	Description	Quantity	#Column Nam	e#Column Name Error:Sup	#Column Name Error:S	#Column Name Error:S	#Column Name Error:S	#Column Name Error:Ma	#Column Name Error:Manufacturer
	CAP CER 22UF 16V ±20% X5R	CAP CER 22UF 16V ±20% X5R	C1	22µF ±20% 16V Ceramic Capacitor X5R 1210 (3225 Metric)		1						
CAP ALUM 100UF	1210 CAP ALUM	1210 CAP ALUM	C2	100µF 50V Aluminum Capacitors Radial,		1						
50V	100UF 20% 50V RADIAL	100UF 20% 50V RADIAL		Can 74 mOhm @ 100kHz 3000 Hrs @ 105°C								
CAP, 0603			C3, C4, C5, C6, C11, C13, C15, C16, C17, C_DNP1, C_DNP2	0.10µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	11	1						
	0603	0603		10000pF ±5% 50V Ceramic Capacitor U2J	10	0						
	50V 5% X7R 0603	50V 5% X7R 0603	C19, C20, C21	0603 (1608 Metric)								
	DIODE TVS 15VWM 24.4VC DO-214AA	DIODE TVS 15VWM 24.4VC DO-214AA	D1, D2	TVS DIODE 15VWM 24.4VC SMB	:	2						
	(SMB) 25-30A	(SMB) FUSE ATO	F1	Fuse Block 30A 500V 1 Circuit Blade PCB		1						
FUSE HOLDER FUSE ATO/ATC	10A	FUSE HOLDER FUSE ATO	F2	Fuse Block 30A 500V 1 Circuit Blade PCB		1						
FUSE HOLDER CONN 2POS	JUMPER	FUSE HOLDER CONN 2POS	JP1, JP2	2 Positions Header Connector Through Hole		2						
JUMPER 0.1" LED_0603	LED GREEN	JUMPER 0.1" LED GREEN	LED1, LED3, LED4, LED7,	Gold Green 572nm LED Indication - Discrete 2V		6						
LED_0603	LED YELLOW CLEAR 2.1V	CLEAR 2V 0603 LED YELLOW CLEAR 2.1V	LED10, LED11 LED2, LED5, LED6, LED8, LED9, LED12, LED13, LED14	0603 (1608 Metric)		В						
CONN, Bergstak 50 Pos Plug	0603 CONN 50POS Bergstak Plug	0603 CONN 50POS Bergstak Plug 0.02"	P1	50 Position Connector Plug, Outer Shroud Contacts Surface Mount Gold		1						
CONN, 6POS ULTRA-FIT	0.02" CONN 6POS ULTRA-FIT 0.138"	0.02" CONN 6POS ULTRA-FIT 0.138"	P2, P6, P7	1	:	3						
CONN, 2POS ULTRA-FIT	CONN 2POS ULTRA-FIT 0.138"	CONN 2POS ULTRA-FIT 0.138"	P3, P8, P9	2 Positions Header, Shrouded Connector 0.138" (3.50mm) Through Hole Gold	:	3						
Click	CONN 2POS DURA-CLIK 0.079"	CONN 2POS DURA-CLIK 0.079"	P4, P5, P10	2 Positions Header, Shrouded Connector 0.079" (2.00mm) Surface Mount, Right Angle Tin	:	3						
ULTRA-FIT - NATURAL COLOR	CONN 2POS ULTRA-FIT NATURAL COLOR 0.138"	CONN 2POS ULTRA-FIT NATURAL COLOR 0.138"	P11, P12	2 Positions Header, Shrouded Connector 0.138" (3.50mm) Through Hole	1	2						
SOIC8	MOSFET DUAL P-CH 40V 8A 3.2W 8-SOIC	MOSFET DUAL P-CH 40V 8A 3.2W 8-SOIC		Mosfet Array 2 P-Channel (Dual) 40V 8A 3.2W Surface Mount 8-SO	:	2						
MOSFET N-CH 30V 12A 2mmx2mm PQFN	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15		13	3						
	1% 1.5W 2010	RES 0.003 OHM 1% 1.5W 2010 RES 0.006 OHM		0.003 Ohm ±1% 1.5W Chip Resistor 2010 (5025 Metric) Current Sense, Moisture Resistant Metal Foil 0.006 Ohm ±1% 0.5W. 1/2W Chip Resistor		1						
1200	1% 1/2W 1206	1% 1/2W 1206	172	1206 (3216 Metric) Automotive AEC-Q200, Current Sense, Moisture Resistant Metal Element								
RES, 0603	RES 1M OHM 1% 1/10W 0603	RES 1M OHM 1% 1/10W 0603	R3, R8	1M Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant	1	2						
RES, 0603	RES 11.8K OHM 1% 1/10W 0603	RES 11.8K OHM 1% 1/10W 0603	1 R4	Thick Film 11.8k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture		1						
	RES 86.6K OHM	1 RES 86.6K OHM 1% 1/10W 0603	1 R5	Resistant Thick Film 86.6k Ohm ±1% 0.1W, 1/10W Chip		1						
RES, 0603	RES 10K OHM	RES 10K OHM	R6, R7, R29, R30, R31, R32,	Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film RES SMD 10K OHM 1% 1/10W 0603	16	6						
.,	1% 1/10W 0603	1% 1/10W 0603	R33, R38, R42, R43, R44, R48, R49, R52, R53, R54									
	1% 1/10W 0603	1% 1/10W 0603	R50, R51	4.7k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film	14	4						
RES, 0603		RES 54.9K OHM 1% 1/10W 0603		54.9k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive		1						
RES, 0603	RES 78.7K OHM 1% 1/10W 0603	RES 78.7K OHM 1% 1/10W 0603	R12	AEC-Q200 Thick Film 78.7k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film		1						
RES, 0603		RES 255K OHM 1% 1/10W 0603	R13	255k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant		1						
RES, 0603	RES 470K OHM	RES 470K OHM	R14, R15, R20, R22	Thick Film RES SMD 470K OHM 1% 1/4W 0603		4						
RES, 0603	1% 1/4W 0603 RES 0.0 OHM 1/4W 0603	RES 0.0 OHM 1/4W 0603	R16, R17, R21, R23, R24, R25, R26, R27, R28	RES SMD 0.0 OHM JUMPER 1/4W 0603	5	9						
-,	1% 1/10W 0603	RES 140K OHM 1% 1/10W 0603	-, -	000000000000000000000000000000000000000								
SRC SELECT 24SSOP	IC OR CONTROLLER SOURCE SELECT	IC OR CONTROLLER SOURCE SELECT	U1	OR Controller Source Selector Switch P- Channel 3:1 24-SSOP								
C OP AMP GP RR	24SSOP IC OP AMP GEN PURPOSE RR	24SSOP IC OP AMP GEN PURPOSE RR	U2, U3, U4, U7, U8	General Purpose Amplifier 1 Circuit Rail-to- Rail SOT-23-5		5						
IC OP AMP CURR	5	10MHZ SOT-23- 5 IC CURRENT AMPLIFIER	U5, U6	Current Sense Amplifier 1 Circuit SC-70-6	:	2						
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