

ROHM Semiconductor				LLC_DC_DC_2.5KW						
PDT001EVK001B										
R2_0										
#	Description	Designator	Comment	PART Description	Package	Quantity	Pins	Total Pins	Manufacturer 1	Manufacturer Part Number 1
1	BEAD	F8502, F8600, F8601	TBA	BEAD, TBA, 1%, [0805], 55°C ~ -125°C	[0805]	3	2	6	Murata	BLM21PG2215N1D
2	Buzzer	B800	PS1240P02BT	Buzzer, TH, Piezo, PS1240P02BT, 30V, [12.2x7.8], 10°C ~ 70°C	[12.2x7.8]	1	2	2	TDK	PS1240P02BT
3	CAP NP	C500	2.2nF	CAP NP, TH, Disc, 2.2nF, 10V, ±10%, 5.5X3.15_p5, X7R	5.5X3.15_p5	1	2	2	Murata	RCER73A222K1K103B
4	CAP NP	C503, C506, C510, C514, C515, C518, C519, C521, C522, C523, C580, C581, C582, C586, C510, C580	100nF	CAP NP, SMD, Ceramic, 100nF, 50V, ±10%, [0805], X7R	[0805]	22	2	44	Walsin	0805B104K500CT
5	CAP NP	C504	100nF	CAP NP, TH, Film, 100nF, 630V, ±10%, [TH_18X5_15P], MPP	[TH_18X5_15P]	1	2	2	KEMET	R71P101004030K
6	CAP NP	C511	1nF	CAP NP, SMD, Ceramic, 1nF, 50V, ±10%, [0805], X7R	[0805]	1	2	2	Walsin	0805B102K500CT
7	CAP NP	C512	10uF	CAP NP, SMD, Ceramic, 10uF, 35V, ±10%, [1206], X7R	[1206]	1	2	2	Murata	GRT31CR6Y1A106E01L
8	CAP NP	C513, C516, C520	10uF	CAP NP, SMD, Ceramic, 10uF, 25V, ±10%, [1206], X7R	[1206]	3	2	6	Yageo	CC1206K007R8BB106
9	CAP NP	C517, C525	47uF	CAP NP, SMD, Ceramic, 47uF, 25V, ±20%, [1206], X5R	[1206]	2	2	4	Murata	GRM31CR61E1A78ME44K
10	CAP NP	C601, C603, C604	1uF	CAP NP, SMD, Ceramic, 1uF, 25V, ±10%, [0805], X7R	[0805]	3	2	6	Walsin	0805B105K250CT
11	CAP NP	C605, C811	1uF	CAP NP, SMD, Ceramic, 1uF, 25V, ±10%, [1206], X7R	[1206]	2	2	4	Kemet	1206B105K250CT
12	CAP NP	C704, C705, C711	10nF	CAP NP, SMD, Ceramic, 10nF, 50V, ±10%, [0805], X7R	[0805]	3	2	6	Walsin	0805B103K500CT
13	CAP NP	C805	4.7nF	CAP NP, SMD, Ceramic, 4.7nF, 50V, ±10%, [0805], X7R	[0805]	1	2	2	Walsin	0805B47K500CT
14	CAP NP	C801	10uF	CAP NP, SMD, Ceramic, 10uF, 50V, ±10%, [0805], X7R	[0805]	1	2	2	Yageo	CC0805K003R8BB106
15	CAP NP	C902	100nF	CAP NP, SMD, Ceramic, 100nF, 50V, ±10%, [0805], X7R	[0805]	1	2	2	Murata	GC021BR71H104K01L
16	CAP NP	C903, C904	1uF	CAP NP, SMD, Ceramic, 1uF, 50V, ±10%, [0805], X7R	[0805]	2	2	4	Walsin	0805B105K500CT
17	CAP POL	C501, C502, C508, C509	100uF	CAP POL, TH, Electrolytic, 100uF, 35V, ±20%, [8.3x12.5_2P5], 150mA, 105DegC	[8.3x12.5_2P5]	4	2	8	Nichicon	UVY1V1010MED1TD
18	CAP POL	C505	10uF	CAP POL, TH, Electrolytic, 10uF, 50V, ±20%, [5x12.5_2P5], 46mA, 105DegC	[5x12.5_2P5]	1	2	2	Nichicon	UVY1H100MD1TD
19	CAP POL	C507, C524	10uF	CAP POL, TH, Electrolytic, 10uF, 50V, ±20%, [5x12.5_2P5], 46mA, 105DegC	[5x12.5_2P5]	2	2	4	Nichicon	UVY1H100MD1TD
20	Connector	J801	CON_HDR_6	Connector, TH, CON_HDR_6, Berg	Berg	1	6	6	JST	B6B-XH-AJLFJ(SN)
21	Connector	J700, J902	Connector, TH, DIP 2.54x2, Berg	Connector, TH, DIP 2.54x2, Berg	Berg	2	2	4	Samtec	TSW-102-14-F-S
22	Connector	J701, J907	DIP 2.54x2	Connector, TH, DIP 2.54x2, Shrouded-4 wall,	Shrouded-4 wall	2	2	4	TE	2-644486-2
23	Connector	J800	DIP 2.54x2	Connector, TH, DIP 2.54x2, Berg	Berg	1	2	2	JST	B2B-XH-AJLFJ(SN)
24	Connector	J801	CON_HDR_4	Connector, TH, CON_HDR_4, Berg	Berg	1	4	4	JST	B4B-XH-AJLFJ(SN)
25	Connector	J900	CON_HDR_14x2	Connector, TH, CON_HDR_14x2, Berg	Berg	1	28	28	SAMtec	TSW-114-22-G-D-RA
26	Connector	J901	CON_HDR_5x2	Connector, TH, CON_HDR_5x2, Berg	Berg	1	10	10	SAMtec	TSW-105-22-G-D-RA
27	Connector	J903, J906, J910	CON_HDR_4x2	Connector, TH, CON_HDR_4x2, Berg	Berg	3	8	24	SAMtec	TSW-104-22-G-D-RA
28	Connector	J905	CON_HDR_6x2	Connector, TH, CON_HDR_6x2, Berg	Berg	1	12	12	SAMtec	TSW-106-22-G-D-RA
29	Connector	J908	CON_HDR_5	Connector, TH, CON_HDR_5, Berg	Berg	1	5	5	JST	B5B-XH-AJLFJ(SN)
30	Connector	LCD800	CON_HDR_16	Connector, TH, CON_HDR_16, Berg	Berg	1	16	16	SAMtec	TSW-116-16-F-S
31	DC/DC IC	U500	BM2P014	DC/DC IC, SMD, IC, BM2P014, 650V, DIP7, 40 ~ 105 uC	DIP7	1	7	7	ROHM	BM2P01x
32	Diode	D500	US1M	Diode, SMD, Ultrafast, US1M, 1000V, [SMA], 1A, 65°C ~ 150°C	[SMA]	1	2	2	Diode Incorporate	US1M
33	Diode	D501, D503	RF201LAMG2S	Diode, SMD, Fast Recovery, RF201LAMG2S, 200V, [SOD128], 2A, 55°C ~ 150°C	[SOD128]	2	2	4	ROHM	RF201LAMG2S
34	Diode	D502	RF05VAMG2S	Diode, SMD, SIGNAL, RF05VAMG2S, 200V, [SOD128], 0.5A, 55°C ~ 150°C	[SOD128]	1	2	2	ROHM	RF05VAMG2S
35	Diode	D800	PESD5V0F1BL	Diode, SMD, TVS, PESD5V0F1BL, 15V, [SOD882], 2.5A, 40°C ~ 125°C	[SOD882]	1	2	2	Nexperia	PESD5V0F1BL_315
36	Diode	D801, D804	DAN202UM	Diode, SMD, Switching, DAN202UM, 80V, [SC-45], 100mA, 55°C ~ 150°C	[SC-45]	2	3	6	ROHM	DAN202UM
37	Diode	D805	RB021VAM80TR	Diode, SMD, Schottky, RB021VAM80TR, 90V, [TUMD2M], 0.2A, 40°C ~ 125°C	[TUMD2M]	1	2	2	Rohm	RB021VAM80TR
38	Diode	Z500	SMBJ120D-M3H	Diode, SMD, TVS, SMDJ120D-M3H, 120V, [DO-214AA], 3.15A, 55°C ~ 150°C	[DO-214AA]	1	2	2	Vishay	SMBJ120D-M3H
39	Diode	Z501	UDZVTE-1718B	Diode, SMD, ZENER, UDZVTE-1718B, 18V, SOD-323HE, 20mA, 55°C ~ 150°C	SOD-323HE	1	2	2	ROHM	UDZVTE-1718B
40	Dip Switch	SW900	DS01-254-L-02BE	Dip Switch TH4 PhcDS01-254-L-02BE24V-	-	1	4	4	CUI Devices	DS01-254-L-02BE
41	FUSE	F500	1A	FUSE, TH, Slow Blow, 1A, 350V, [0.35 x 4.0 x 7.8],	[0.35 x 4.0 x 7.8]	1	2	2	Bel fuse	0697H1000-02
42	IC	U800	DSPIC33CK3M2P505	IC, SMD, DSPIC33CK3M2P505, [TQFP48],	[TQFP48]	1	48	48	Microchip Technology	DSPIC33CK3M2P505-4PT
43	Isolation	U700	AMC1311BDWVR	Isolation, SMD, IC, AMC1311BDWVR, 3.0V to 5.5V, [SO-8], -55°C to +125°C	[SO-8]	1	8	8	TI	AMC1311BDWVR
44	LDO	U502	BA17805FP-E2	LDO, SMD, IC, BA17805FP-E2, 5v, ±4%, [DPAK], 40°C ~ 85°C	[DPAK]	1	3	3	ROHM	BA17805FP-E2
45	LDO	U503	BA338COFP-E2	LDO, SMD, IC, BA338COFP-E2, 3.3V, ±2%, [DPAK], 40°C ~ 105°C	[DPAK]	1	3	3	Rohm	BA338COFP-E2
46	LDO	U504	BD49FD0WFP2-E2	LDO, SMD, IC, BD49FD0WFP2-E2, 16V, [TO263-5], 40C to +125C	[TO263-5]	1	5	5	ROHM	BD49FD0WFP2-E2
47	LED	LED801, LED802, LED803	RED	LED, SMD, RED, RED, 5V, [0805], 25mA@60mW-40°C ~ 85°C	[0805]	3	2	6	Everlight	17-21SURCS530-A2/TR8
48	MosFET	Q600	ROSE065AUTC	MosFET, SMD, NCH, ROSE065AUTC, 30V, 6.5A, 1W, 55°C ~ 150°C	[SO-8]	1	3	3	ROHM	ROSE065AUTC
49	OPAMP	U701	TLV274DR	OPAMP, SMD, TLV274DR, 16 V, [SO-14],	[SO-14]	1	14	14	TI	TLV274DR
50	Optoisolator	ISO500	PC817	Optoisolator, SMD, IC, PC817, 80V, 4-SMD, Gull Wing, 50mA, 30°C ~ 100°C	4-SMD, Gull Wing	1	4	4	Sharp	PC81710M1B
51	Resistor	R500	47K	Resistor, TH, 47K, ±5%, 2W		1	2	2	Yageo	RSF200JB-73-47K
52	Resistor	R501, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525	10K	Resistor, SMD, 10K, ±1%, [0805], 1/8W	[0805]	15	2	30	ROHM	SFR10E2PF1002
53	Resistor	R504	47R	Resistor, SMD, 47R, ±1%, [1206], 1/8W	[1206]	1	2	2	ROHM	SFR18E2PF47R0
54	Resistor	R507, R508	2R2	Resistor, SMD, 2R2, ±1%, [1210], 2/3W	[1210]	2	2	4	ROHM	ESR25J2PF-2R20
55	Resistor	R509	560R	Resistor, SMD, 560R, ±1%, [0805], 1/8W	[0805]	1	2	2	ROHM	SFR10E2PF5600
56	Resistor	R510	48.9K	Resistor, SMD, 48.9K, ±1%, [0805], 2/5W	[0805]	1	2	2	ROHM	ESR18E2PF4992
57	Resistor	RS11, R715, R716, R728, R735, R736, R737, R738, R905	1K	Resistor, SMD, 1K, ±1%, [0805], 1/8W	[0805]	9	2	18	ROHM	SFR10E2PF1001
58	Resistor	R512	1.2K	Resistor, SMD, 1.2K, ±1%, [0805], 2/5W	[0805]	1	2	2	ROHM	ESR10E2PF1201
59	Resistor	R516	1R	Resistor, SMD, 1R, ±1%, [1206], 1/8W	[1206]	1	2	2	ROHM	ESR18E2PF1R00
60	Resistor	R600	4.99K	Resistor, SMD, 4.99K, ±1%, [0805], 2/5W	[0805]	1	2	2	Rohm	ESR10E2PF4991
61	Resistor	R601	470R	Resistor, SMD, 470R, ±1%, [0805], 2/5W	[0805]	1	2	2	ROHM	ESR10E2PF4700
62	Resistor	R700, R703, R706	220K	Resistor, SMD, 220K, 200V, ±1%, [1206], 1/2 W	[1206]	3	2	6	ROHM	ESR18E2PF2203
63	Resistor	R702, R800, R801, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000	0R	Resistor, SMD, 0R, ±1%, [0805], 1/8W	[0805]	21	2	42	ROHM	SFR10E2PFJ000
64	Resistor	R709, R730, R734	3.3K	Resistor, SMD, 3.3K, ±1%, [0805], 1/8W	[0805]	3	2	6	ROHM	SFR10E2PF3301
65	Resistor	R727, R732	100K	Resistor, SMD, 100K, ±1%, [0805], 1/8W	[0805]	2	2	4	ROHM	SFR10E2PF1003
66	Resistor	R812, R813	60R	Resistor, SMD, 60R, 10%, [1206], 1/4 W	[1206]	2	2	4	Vishay	CRCW12069R0K9EAF
67	Resistor	R817	1.1K	Resistor, SMD, 1.1K, ±1%, [0805], 2/5W	[0805]	1	2	2	ROHM	ESR10E2PF1101
68	Resistor	R801, R902	10K	Resistor, SMD, 10K, ±1%, [0805], 1/8W	[0805]	2	2	4	ROHM	SFR10E2PF1002
69	Shunt Regulator	U501	TL431	Shunt Regulator, SMD, TL431, [SOT-23-3],	[SOT-23-3]	1	3	3	TI	TL431
70	Transformer	T500	1.2mH	Transformer, TH, EE20, EE25-10Pin Vertical,	EE25-10Pin Vertical	1	9	9	Custom	Custom
71	Transceiver	U800	THVD1452DR	Transceiver, SMD, IC, THVD1452DR, [SO-14], 40°C ~ 125°C	[SO-14]	1	14	14	TI	THVD1452DR
72	Transceiver	U801	ATA6561	Transceiver, SMD, IC, ATA6561, [SO-8], 40°C ~ 150°C	[SO-8]	1	8	8	Micro Chip	ATA6561-GAQW
73	USB TVS Diode	D802, D803	CDSOT23-SM712	USB TVS Diode, [SOT-323], IC, CDSOT23-SM712, 26V, 14V, [SOT-323], 17A, 400W, 55°C ~ 150°C	[SOT-323]	2	3	6	Bourns	CDSOT23-SM712

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