

**DN05104/D  
BOM**

Item	Qty	Reference	Type	Part Name	MFR	Value	Package	Description
1	1	C9	Ceramic Capacitor	/885012207116	WE	102	603	Capacitor, Ceramic, 50V, 10%
2	1	C26	Ceramic Capcitor	C3216X7T2W104K	TDK	104, 400V	1206	Capacitor, Ceramic, SMD, 5%
3	1	C18	Ceramic Capacitor	/885012006051	WE	10nF	603	Capacitor, Ceramic, 50V, 10%
4	2	C28 C30	Ceramic Capacitor	/885012206083	WE	1nF	603	Capacitor, Ceramic, 50V, 10%
5	1	C12	Ceramic Capacitor	C1608COG2A102J	TDK	1nF, 100v	603	Capacitor, Ceramic, SMD, 5%
6	1	C7	Ceramic Capacitor	/885012206076	WE	1uF, 25v	603	Capacitor, Ceramic, 25V, 10%
7	1	C8	Ceramic Capacitor	C2012X7S2A105K	TDK	1uF, 100v	805	Capacitor, Ceramic, 100V, 10%
8	5	C15-17 C24 C2	Ceramic Capacitor	/885012206076	WE	1uF, 25V	603	Capacitor, Ceramic, 25V, 10%
9	1	C21	Ceramic Capacitor	C3216X7S2A225K	TDK	2.2uF, 100v	1206	Capacitor, Ceramic, 100V, 10%
10	1	C25	X2 Capcitor	/890324023028	WE	224, X2	THT, 10m	X2 capacitor, Safety standard approved, 10%
11	2	C11 C23	Ceramic Capacitor	std	std	390pF	603	Capacitor, Ceramic, 50V, 10%
12	1	C4	Ceramic Capacitor	C2012X7R1V475K	TDK	4.7uF, 35v	805	Capacitor, Ceramic, 35V, 10%
13	1	C3	Ceramic Capcitor	C3216COG2J471J	TDK	470pF, 630V	1206	Capacitor, Ceramic, Chip, 5%
14	1	C10	Ceramic Capcitor	CS65-B2GA101KYNF	TDK	470pF, Y1	lead type	HV Ceramic Capacitor, safety standard appro
15	2	C19 C22	Ceramic Capacitor	/885012206094	WE	68nF	603	Capacitor, Ceramic, 50V, 10%
16	1	C6	Ceramic Capacitor	/885012006056	WE	68pF	603	Capacitor, Ceramic, 50V, 5%
17	1	C20	Ceramic Capacitor	Std	std	NC	603	Capacitor, Ceramic, 50V, 10%
18	2	D1 D3	Bridge rectifier	MDB6S	FSC	1A, 600V	micro-DIP	Bridge Rectifier, 600V, 1A
19	1	DNR	Varistor	820573011	WE	10D471K	TH	Varistor, 10D471K
20	4	D1 D7 D10-11	Switching diode	BAS21HT1G	ON	0.2A, 250V	SOD323	Switching diode, SMD
21	1	D16	Switching diode	NC	ON	0.2A, 250V	SOD323	NC
22	1	D6	Switching diode	GSD2004WS	Vishay	0.2A, 300V	SOD323	Switching diode, SMD
23	1	D4	Switching diode	BAT54HT1G	ON	0.2A, 30V	SOD323	Switching diode, SMD
24	1	D5	Ultrafast rectifi	US1JFA	ON(FSC)	0.8A, 600V	SOD123FL	Standard Rectifier, 0.8A, 600V
25	2	D12-13	Standard rectifie	RS1JFA	ON(FSC)	0.8A, 600V	SOD123FL	Standard Rectifier, 0.8A, 600V
26	1	D8	Switching diode	BAS21HT1G	ON	0.2A, 250V	SOD323	Switching diode, SMD
27	1	FB	Ferrite bead	UPZ2012E102-1R5	Sunlord/Wueth		805	1000ohm@100MHz
28	1	FB1	Ferrite bead	UPZ2012E601-2R0	Sunlord/Wueth		805	600ohm@100MHz
29	1	L3	Common filter	744821110	WE	10mH	TH type	CM Filter, T type core
30	1	L1	Common filter	150-1327	Wurth-M	500uH	TH type	T type, 6.3x3x3, 11T, 0.2mmx2 in parallel
31	1	F1	Fuse	20T-016H	Hollyfu	1.6A, 250V	axial lead	Micro Fuse, 1.6A/250V
32	1	Q4	NPN Transistor	MMBTA06LT1G	ON		SOT23	General NPN Transistor, SMD
33	1	Q6	NPN Transistor	NC	ON		SOT23	NC
34	1	Q7	NPN Transistor	MMBT3904LT1G	ON		SOT23	General NPN Transistor, SMD
35	1	Q5	PNP Transistor	MMBT3906LT1G	ON		SOT23	General PNP Transistor, SMD
36	1	U3	Syn. rectified co	NCP4306AADZZZADI	ON		S08	Syn. Rectified Controller

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**BOM (Continued)**

Item	Qty	Reference	Type	Part Name	MFR	Value	Package	Description
37	1	U1	PWM Controller	NCP1342AMDAAD1R2	ON		SOP9	QR PWM controller
38	1	NTC	NTC	SPNL09D1R5MBI	Sunlord	1.5ohm	lead type	9mm Die, 1.5ohm
39	1	NTC1	NTC	SDNT1608X104J425	Sunlord	100k	603	NTC, SMD
40	1	U4	Optical coupler	FODM1009	ON(FSC)		LSOP4	optical coupler, standard SOP package
41	1	Q8	PMOS	ATP104	ON	8.4mohm	ATPAK	PMOS
42	1	L2	Axial leaded fixe	7447462470	WE	47uH	TH type	Axial leaded fixed inductor
43	1	Q2	MOSFET	IPL60R385CP	Infineon		THINKPAK-8X8	MOSFET, NChan, 600V
44	1	R6	Resistor	Std	Std	1	603	Resistor, Chip, 1/8W, 1%
45	1	R9	Resistor	Std	Std	1.8k	603	Resistor, Chip, 1/8W, 1%
46	1	R34	Resistor	Std	Std	10	603	Resistor, Chip, 1/8W, 1%
47	1	R13	Resistor	Std	Std	100K	603	Resistor, Chip, 1/8W, 1%
48	3	R18 R35 R38	Resistor	Std	Std	10k	603	Resistor, Chip, 1/8W, 1%
49	1	R17	Resistor	Std	Std	18k	603	Resistor, Chip, 1/8W, 1%
50	3	R3 R21 R22	Resistor	Std	Std	1K	603	Resistor, Chip, 1/8W, 1%
51	1	R8	Resistor	Std	Std	20k	603	Resistor, Chip, 1/8W, 1%
52	5	R19 R26-28 R3	Resistor	Std	Std	22	603	Resistor, Chip, 1/8W, 1%
53	1	R29	Resistor	Std	Std	3.3k	603	Resistor, Chip, 1/8W, 1%,
54	1	R11	Resistor	Std	Std	300	603	Resistor, Chip, 1/8W, 1%
55	1	R7	Resistor	Std	Std	300k	603	Resistor, Chip, 1/8W, 1%
56	1	R30	Resistor	Std	Std	30k	603	Resistor, Chip, 1/8W, 1%
57	1	R33	Resistor	Std	Std	NC	603	NC
58	1	R10	Resistor	Std	Std	4.7	603	Resistor, Chip, 1/8W, 1%
59	1	R23	Resistor	Std	Std	4.7K	603	Resistor, Chip, 1/8W, 1%
60	1	R25	Resistor	Std	Std	47K	603	Resistor, Chip, 1/8W, 1%
61	1	R32	Resistor	Std	Std	68K	603	Resistor, Chip, 1/8W, 1%
62	1	R24	Resistor	Std	Std	75K	603	Resistor, Chip, 1/8W, 1%
63	1	R20	Resistor	Std	Std	820k	603	Resistor, Chip, 1/8W, 1%
64	1	R37	Resistor	Std	Std	NC	603	NC
65	2	R15-16	Resistor	Std	Std	NC	603	NC
66	2	R4-5	Resistor	ERJ8BQFR062V	Panason	0.62	1206	Resistor, Chip, 1/2W, 1%
67	1	R2	Resistor	Std	Std	10	1206	Resistor, Chip, 1/4W, 1%
68	1	R31	Resistor	Std	Std	1k	805	Resistor, Chip, 1/5W, 1%
69	1	R12	Resistor	Std	Std		20 805	Resistor, Chip, 1/5W, 1%
70	1	R1	Resistor	Std	Std	300k	1206	Resistor, Chip, 1/4W, 1%

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**BOM (Continued)**

Item	Qty	Reference	Type	Part Name	MFR	Value	Package	Description
71	1	R14	Resistor	ERJ8BWFR005V	Panason	5mohm	1206	Resistor, Chip, 1/2W, 1%
72	1	T1	Transformer	750343635	WE-midcon		TH type	RM8, 12Pin
73	1	C5	Elec. capacitor	KM series/ERK2GM	CapXon/	22uF, 400V	10X16	size, 10mmx16mm
74	2	C1-2	Elec. capacitor	KM series	CapXon	33uF, 400V	13X16	size, 10mmx16mm
75	2	C13 C29	Polymer solid cap	PS681M025F080P	CapXon	680uF, 25V	8mmx16mm	size:8mmx16mm
76	1	C14	Polymer solid cap	NC	NC	NC		NC
77	1	Q1	MOSFET	NTMFS6B03NLT1G	ON		S08FL	MOSFET, NChan, 100V
78	1	J1	USB C connector	632 723 300 011	WE		TH/SMD	Type C connector, SMT
79	1	U2	PD controller	WT6632FSG14BWTS	Weltrend		S014	PD3.0/QC3.0 protocol controller
80	1	ZD5	Zener	MM3Z10VT1G	ON	10V	SOD323	GENERIC ZENER-DIODE
81	1	ZD2	Zener	MM3Z24VT1G	ON	24V	SOD323	GENERIC ZENER-DIODE
82	4	ESD1-4	ESD	SD05T1G	ON	5V	SOD323	ESD protection device
83	2	L N	1pin connector	std	std		TH type	单根90度排针
84	1	J2	8pin connector	std	std		TH type	8针2.54mm90度排针