

Variant: None  
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MILSTD1275E REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		MILSTD1275E	Any	Printed Circuit Board	
2	C1, C2	2	1uF	08051C105K4Z2A	AVX	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
3	C3, C6	2	0.1uF	C3216X7T2W104M160AE	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 20%, X7T, 1206	1206
4	C4	1	2.2uF	C1210C225K1RACTU	Kemet	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
5	C5	1	47uF	EMVE630ADA470MHA0G	Chemi-Con	CAP, AL, 47 uF, 63 V, +/- 20%, SMD	HA0
6	C7	1	1uF	CGA4J3X7R1H105K125AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
7	C8	1	0.015uF	CGA3E2X7R2A153K080AA	TDK	CAP, CERM, 0.015 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
8	C9	1	0.1uF	C0603C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	603
9	C10	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	603
10	C11, C12	2	100uF	EEEFTH101XAP	Panasonic	CAP, AL, 100 uF, 50 V, +/- 20%, 0.34 ohm, AEC-Q200 Grade 2, SMD	D6.3xL7.7mm
11	C13	1	1000pF	GRM155R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0402	402
12	C14	1	0.56uF	GRM155R61A564KE15D	MuRata	CAP, CERM, 0.56 uF, 10 V, +/- 10%, X5R, 0402	402
13	C15	1	0.01uF	CGA2B3X7S2A103K050BB	TDK	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	402
14	D1	1	100V	1N4148WS-HG3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 150 A, AEC-Q101, SOD-323	SOD-323
15	D2	1		SMBJ5369B-TP	MCC	Zener Diode 51 V 5 W ±5% Surface Mount DO-214AA (SMB)	SMB
16	D3	1		SMDJ120A	Littelfuse Inc	Diode TVS Single Uni-Dir 120V 5KW 2-Pin DO-214AB	DO214AB
17	D4	1		SZMMSZ4715T1G	On Semiconductor	Zener Diode 36 V 500 mW - Surface Mount SOD-123	SOD123
18	D5	1		5.0SMDJ33CA	Littelfuse	53.3V Clamp 93.9A Ipp Tvs Diode Surface Mount DO-214AB (SMCJ)	DO214AB
19	D7	1	150V	BAV20WS-TP	Micro Commercial Componer	Diode, P-N, 150 V, 0.2 A, SOD-323	SOD-323
20	FID1, FID2, FID3	3	N/A	N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
21	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
22	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
23	J1, J3, J4, J5	4		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
24	J2	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
25	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
26	Q1	1		IXTT88N30P	Littlefuse	N-Channel 300 V 88A (Tc) 600W (Tc) Surface Mount TO-268AA	TO-268AA
27	Q2, Q3	2		SQJ466E-T1_GE3	Vishay	N-Channel 60 V 200A (Tc) 150W (Tc) Surface Mount PowerPAK® 8 x 8	PowerPAK 8 x 8L
28	R1	1	10.0k	HVCB2512FDD10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 2 W, 2512	2512
29	R2	1	100k	ERJ-2RKF1003X	Panasonic	RES, 100 k, 1%, 0.1 W, 0402	402
30	R3	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
31	R4	1	2.55k	CRCW04022K55FKED	Vishay-Dale	RES, 2.55 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
32	R5	1	0.004	CRF1206-FZ-R004ELF	Bourns	RES, 0.004, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
33	R6	1	95.3k	CRCW040295K3FKED	Vishay-Dale	RES, 95.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
34	R8	1	13.7k	CRCW040213K7FKED	Vishay-Dale	RES, 13.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
35	R10	1	54.9k	CRCW040254K9FKED	Vishay-Dale	RES, 54.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
36	TP1, TP3	2		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
37	TP2, TP4, TP5	3		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
38	TP7, TP8, TP9	3		1040	Keystone	TEST POINT SLOTTED .118", TH	Test point, TH Slot Test point
39	TP10	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
40	U1	1		PLM74800DRRRQ1	Texas Instruments	Ideal Diode Controller with Load Dump Protection, DRR0012E (WSON-12)	DRR0012E
41	U2	1			Texas Instruments	Positive High Voltage Hot Swap / Inrush Current Controller with Power Limiting, 10-pin MSOP	DGS0010A

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