

EVL6699-150W-SR Bill-of-material

Des.	Part Number Part Value	Description	Supplier	Case
C1	470nF-X2	X2 - FILM CAP - B32922C3474K	EPCOS	9.0 x 18.0 p15mm
C2	2.2nF-Y1	Y1 SAFETY CAP. CD12-E2GA222MYGSA	EPCOS	p10mm
C3	2.2nF-Y1	Y1 SAFETY CAP. CD12-E2GA222MYGSA	EPCOS	p10mm
C4	470nF-X2	X2 - FILM CAP - B32922C3474K	EPCOS	9.0 x 18.0 p15mm
C5	470nF - 520V	520V - FILM CAP - B32673Z5474K	EPCOS	7.0 x 26.5 p22.5mm
C7	100nF	100V CERCAP - GENERAL PURPOSE	AVX	PTH
C8	10uF-50V	ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON	DIA 5.0 x 11 p2mm
C9	100uF - 450V	ALUMINIUM ELCAP - UPZ SERIES - 105°C	NICHICON	DIA 18 x 32 mm
C10	1nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C11	2.2nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C12	1uF	25V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C13	680nF	25V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C14	68nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C15	47uF-50V	ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON	DIA 6.3 x 11p2.5mm
C16	2.2nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C17	330pF	50V - 5% - COG - CERCAP	AVX	SMD 0805
C18	4.7uF	25V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C19	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C20	2.2nF-Y1	Y1 SAFETY CAP. CD12-E2GA222MYGSA	EPCOS	p10mm
C21	2.2nF-Y1	Y1 SAFETY CAP. CD12-E2GA222MYGSA	EPCOS	p10mm
C22	220pF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C23	10nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C24	220uF-50V	ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON	DIA 10 x 16 p5mm
C25	1.5nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C26	10uF-50V	ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON	DIA 5.0 x 11 p2 mm
C27	220pF-630V	630V CERCAP - GRM31A7U2J220JW31	MURATA	SMD 1206
C28	15nF	1KV - FILM CAP - B32652A223K	EPCOS	5.0 x 18.0 p15mm
C29	470uF-16V	16V ALLUMINIUM ELCAP	SANYO	DIA 10 X 13 p5mm
C30	470uF-16V	16V ALLUMINIUM ELCAP	SANYO	DIA 10 x 13 p5mm
C32	1uF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C33	1nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C34	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C36	1uF - 50V	50V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C37	470uF-16V	16V ALLUMINIUM ELCAP	SANYO	DIA 10 x 13 p5mm
C38	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C39	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C40	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 1206
C41	220nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C42	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C43	4.7nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C44	1.5nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C45	220nF	25V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C47	1nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805

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C48	1nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C49	470uF-16V	16V ALLUMINIUM ELCAP	SANYO	DIA 10 x 13 p5mm
C50	470uF-16V	16V ALLUMINIUM ELCAP	SANYO	DIA 10 x 13 p5mm
C51	100nF	50V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
C52	1nF	25V CERCAP - GENERAL PURPOSE	AVX	SMD 0805
D1	GBU8J	SINGLE PHASE BRIDGE RECTIFIER	VISHAY	STYLE GBU
D2	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D3	1N4005	GENERAL PURPOSE RECTIFIER	VISHAY	DO-41 DO - 41
D4	STTH5L06	ULTRAFAST HIGH VOLTAGE RECTIFIER	STMICROELECTRONICS	DO-201
D5	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D6	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D7	STPS140Z	POWER SCHOTTKY RECTIFIER	STMICROELECTRONICS	SOD-123
D9	STPS1L60A	POWER SCHOTTKY DIODE	STMICROELECTRONICS	SMA
D12	BZV55-C43	ZENER DIODE	VISHAY	MINIMELF SOD-80
D14	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D17	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D18	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D19	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
D20	BZV55-B15	ZENER DIODE	VISHAY	MINIMELF SOD-80
D21	LL4148	HIGH SPEED SIGNAL DIODE	VISHAY	MINIMELF SOD-80
F1	FUSE T4A	FUSE 4A - TIME LAG - 3921400	LITTLEFUSE	8.5x4 p.5.08mm
HS1	HEAT-SINK	HEAT SINK FOR D1, Q1, Q3, Q4		DWG
J1	MKDS 1,5/ 3-5,08	PCB TERM. BLOCK, SCREW CONN., PITCH 5MM - 3 W.	PHOENIX CONTACT	DWG
J2	FASTON	FASTON - CONNECTOR		DWG
J3	FASTON	FASTON - CONNECTOR		DWG
L1	2019.0002	COMMON MODE CHOKE - EMI FILTER	MAGNETICA	DWG
L2	1975.0004	PFC INDUCTOR - 0.31mH - PQ26/25	MAGNETICA	DWG
Q1	STF21NM65M5	N-CHANNEL POWER MOSFET	STMICROELECTRONICS	TO-220FP
Q2	BC857	PNP SMALL SIGNAL BJT	VISHAY	SOT-23
Q3	STF8NM50N	N-CHANNEL POWER MOSFET	STMICROELECTRONICS	TO-220FP
Q4	STF8NM50N	N-CHANNEL POWER MOSFET	STMICROELECTRONICS	TO-220FP
Q8	BC847C	NPN SMALL SIGNAL BJT	VISHAY	SOT-23
Q9	BC847C	NPN SMALL SIGNAL BJT	VISHAY	SOT-23
R1	3.3Meg	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R2	3.3Meg	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R3	1Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R5	75R	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R6	NTC 2R5-S237	NTC RESISTOR P/N B57237S0259M000	EPCOS	DWG
R7	1Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R8	1Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R9	62K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R10	27K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R11	2.2Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R12	2.2Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R13	9K1	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R14	51K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R15	56K	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206

Des.	Part Number Part Value	Description	Supplier	Case
R17	2.2Meg	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY	SMD 1206
R18	82K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R19	56K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R20	33R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R21	22R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R22	0R27	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C	VISHAY	PTH
R23	0R47	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C	VISHAY	PTH
R24	1Meg	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R25	56R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R26	1Meg	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R27	470R	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R28	33K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R29	1K0	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R30	10R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R31	20K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R32	47R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R34	5K6	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 0805
R35	180K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R36	1.8Meg	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R37	220K	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R38	56R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R40	R68	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R41	100R	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C	VISHAY	PTH
R42	1K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R43	51R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R44	6K2	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R45	3R3	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R46	100K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R48	47K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R49	91K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 1206
R50	12K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R51	82K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R52	1K5	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R53	2K2	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R55	2K7	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R57	R002	SMD CURRENT SENSE RESISTOR - ERJM1WTF2M0U	PANASONIC	SMD 2512
R58	100K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R59	100K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R60	10K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R64	10Meg	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R68	39K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R69	47K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R70	22k	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R71	1K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 1206
R72	330K	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R73	22R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R76	33K	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805

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R77	1K0	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R78	22R	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
R79	100R	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY	SMD 1206
T1	1860.0069	RESONANT POWER TRANSFORMER	MAGNETICA	ETD34
U1	L6563H	HIGH VOLTAGE START-UP TM PFC CONTROLLER	STMICROELECTRONICS	SO-16
U2	L6699D	IMPROVED HV RESONANT CONTROLLER	STMICROELECTRONICS	SO-16
U3	SFH617A-2	OPTOCOUPLER	INFINEON	DIP-4 - 10.16MM
U4	SFH617A-2	OPTOCOUPLER	INFINEON	DIP-4 - 10.16MM
U5	TSM1014AIST	LOW CONSUMPTION CV/CC CONTROLLER	STMICROELECTRONICS	MINI S0-8
U6	TSC101	HIGH SIDE CURRENT SENSE AMPLIFIER	STMICROELECTRONICS	SOT23-5

Daughter board bill of material

Des.	Part Number Part Value	Description	Supplier	Case
C501	4.7nF	50V CERCAP - GENERAL PURPOSE	VISHAY	SMD 0805
C502	100nF	50V CERCAP - GENERAL PURPOSE	VISHAY	SMD 0805
C503	1uF	50V CERCAP - GENERAL PURPOSE	VISHAY	SMD 0805
C504	150pF	50V CERCAP - GENERAL PURPOSE	VISHAY	SMD 0805
C505	150pF	50V CERCAP - GENERAL PURPOSE	VISHAY	SMD 0805
D501	BAS316	FAST SWITCHING SIGNAL DIODE	STMICROELECTRONICS	SOD-123
D502	BAS316	FAST SWITCHING SIGNAL DIODE	STMICROELECTRONICS	SOD-123
JP501	HEADER 13	13 PIN CONNECTOR		
Q501	STK32N4LLF5	N-CHANNEL POWER MOSFET	STMICROELECTRONICS	POLAR PAK
Q502	STK32N4LLF5	N-CHANNEL POWER MOSFET	STMICROELECTRONICS	POLAR PAK
R501	10R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R502	10R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R503	10R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R504	150k	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R505	33k	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY	SMD 0805
R506	330R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
R507	330R	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
RX1	0R0	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY	SMD 0805
U501	SRK2000	SR SMART DRIVER FOR LLC RESONANT CONVERTER	STMICROELECTRONICS	SO8