

# EVL6699-90WADP Bill-of-material

<b>Des.</b>	<b>Part Type/ Part Value</b>	<b>Case Style /Package</b>	<b>Description</b>	<b>Supplier</b>
C1	470nF	9.0 x 18.0 p.15 mm	X2 - MKP FILM CAP - B32922C3474K	EPCOS
C2	2n2F	DWG	Y1 CAP. CD12-E2GA222MYGSA	TDK-EPC
C3	2n2F	DWG	Y1 CAP. CD12-E2GA222MYGSA	TDK-EPC
C4	470nF	9.0 x 18.0 p.15 mm	X2 - MKP FILM CAP - B32922C3474K	EPCOS
C5	470nF	7.0 x 16.0 p. 22.5 mm	400V - FILM CAP - B32673Z5474	EPCOS
C6	N.M.	0805	50V CERCAP - GENERAL PURPOSE	
C7	100nF	PTH	100V CERCAP - GENERAL PURPOSE	AVX
C8	47uF	Dia 6.3X11 mm	50V ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON
C9	68uF	Dia. 18X32 mm	450V ALUMINIUM ELCAP - KXG SERIES - 105°C	UNITED CHEMICON
C10	1nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C11	2n2F	0805	50V CERCAP - GENERAL PURPOSE	AVX
C12	1uF	0805	25V CERCAP - GENERAL PURPOSE	AVX
C13	680nF	1206	25V CERCAP - GENERAL PURPOSE	AVX
C14	68nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C15	47uF	DIA6.3X11 mm	50V ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON
C16	2n2F	1206	50V CERCAP - GENERAL PURPOSE	AVX
C17	220pF	0805	50V - 5% - C0G - CERCAP	AVX
C18	2.2uF	1206	6.3V CERCAP - GENERAL PURPOSE	AVX
C19	100nF	1206	50V CERCAP - GENERAL PURPOSE	AVX
C20	2n2F	DWG	Y2 CAP. CS11-E2GA222MYGSA	TDK-EPC
C21	2n2F	DWG	Y2 CAP. CS11-E2GA222MYGSA	TDK-EPC
C22	220pF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C23	10nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C24	100uF	DIA10X12.5 mm	50V ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON
C25	470pF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C26	10uF	DIA6.3X11 mm	50V ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON
C27	220pF	5x3 MM	500V CERCAP - 5MQ221KAAAA	AVX
C28	15nF	5x18 p.15 mm	1000V - MKP FILM CAP - B32652A0153K000	EPCOS
C29	470uF	DIA10X20 mm	35V ALUMINIUM ELCAP - ZL SERIES - 105°C	RUBYCON
C30	470uF	DIA10X20 mm	35V ALUMINIUM ELCAP - ZL SERIES - 105°C	RUBYCON
C31	100uF	DIA8X11 mm	35V ALUMINIUM ELCAP - YXF SERIES - 105°C	RUBYCON
C32	100nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C33	1N0	0805	50V - 5% - C0G - CERCAP	AVX
C34	470nF	0805	25V CERCAP - GENERAL PURPOSE	AVX
C36	N.M.	DIA6.3X11 mm	NOT MOUNTED	
C37	100nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C39	100nF	0805	50V CERCAP - GENERAL PURPOSE	AVX
C40	100nF	1206	50V CERCAP - GENERAL PURPOSE	AVX
C43	4n7F	1206	50V CERCAP - GENERAL PURPOSE	AVX
C44	10nF	1206	50V CERCAP - GENERAL PURPOSE	AVX
C45	220nF	0805	25V CERCAP - GENERAL PURPOSE	AVX
C46	N.M.	0805	NOT MOUNTED	

D1	GBU8J	STYLE GBU	SINGLE PHASE BRIDGE RECTIFIER	VISHAY
D2	LL4148	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	VISHAY
D3	1N4005	DO-41 DO - 41	GENERAL PURPOSE RECTIFIER	VISHAY
D4	STTH2L06	DO-41	ULTRAFAST HIGH VOLTAGE RECTIFIER	STMICROELECTRONICS
D5	LL4148	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	VISHAY
D6	LL4148	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	VISHAY
D7	BAT48Z	SOD-123	SMALL SIGNAL SCHOTTKY DIODE	STMICROELECTRONICS
D8	BZV55-B24	MINIMELF SOD-80	ZENER DIODE	VISHAY
D9	STPS1L60A	SMA	POWER SCHOTTKY RECTIFIER	STMICROELECTRONICS
D10 (R63)	470R	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C - [1]	VISHAY
D11 (R64)	39R	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C - [1]	VISHAY
D12	N.M.	MINIMELF SOD-80	NOT MOUNTED	
D13	N.M.	MINIMELF SOD-80	NOT MOUNTED	
D14	N.M.	MINIMELF SOD-80	NOT MOUNTED	
D15	BZV55-C15	MINIMELF SOD-80	ZENER DIODE	VISHAY
D16	N.M.	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	
D17	N.M.	MINIMELF SOD-80	NOT MOUNTED	
D18	LL4148	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	VISHAY
D19	LL4148	MINIMELF SOD-80	HIGH SPEED SIGNAL DIODE	VISHAY
D20	BZV55-C15	MINIMELF SOD-80	ZENER DIODE	VISHAY
D21	N.M.	MINIMELF SOD-80	ZENER DIODE	
D22	LL4148	MINIMELF SOD-80	FAST SWITCHING DIODE	VISHAY
D23	STPS30H60CFP	TO-220FP	POWER SCHOTTKY RECTIFIER	STMICROELECTRONICS
D24	STPS30H60CFP	TO-220FP	POWER SCHOTTKY RECTIFIER	STMICROELECTRONICS
F1	FUSE T4A	8.5x4 p.5.08mm	FUSE 4A - TIME LAG - 3921400	LITTLEFUSE
HS1	HEAT-SINK	DWG	HEAT SINK FOR D1, Q1, Q3, Q4	
HS2	HEAT SINK	DWG	HEAT SINK FOR D23, D24	
J1	MKDS 1,5/ 3-5,08	DWG	PCB TERM. BLOCK, SCREW CONN., PITCH 5MM - 3 W.	PHOENIX CONTACT
J2	MKDS 1,5/ 2-5,08	DWG	PCB TERM. BLOCK, SCREW CONN., PITCH 5MM - 2 W.	PHOENIX CONTACT
JPX1	Jumper	Wire	BARE COPPER WIRE JUMPER	
JPX2	Jumper	Wire	BARE COPPER WIRE JUMPER	
JPX3	Jumper	Wire	BARE COPPER WIRE JUMPER	
L1	2019.0002		CM INDUCTOR 2x18mH 1.8A	MAGNETICA
L2	1974.0004	DWG	PFC INDUCTOR - 0.52mH	MAGNETICA
L3	1071.0083	DWG	INDUCTOR 1 uH - 5 A	MAGNETICA
Q1	STF12NM50N	TO-220FP	N-CHANNEL POWER MOSFET	STMICROELECTRONICS
Q2	BC857C	SOT-23	PNP SMALL SIGNAL BJT	VISHAY
Q3	STF8NM50N	TO-220FP	N-CHANNEL POWER MOSFET	STMICROELECTRONICS
Q4	STF8NM50N	TO-220FP	N-CHANNEL POWER MOSFET	STMICROELECTRONICS
Q5	BC847C	SOT-23	NPN SMALL SIGNAL BJT	VISHAY
Q6	BC847C	SOT-23	NPN SMALL SIGNAL BJT	VISHAY
Q7	N.M.	SOT-23	PNP SMALL SIGNAL BJT - NOT USED	
Q9	BC847C	SOT-23	NPN SMALL SIGNAL BJT	VISHAY
Q10	N.M.	SOT-23	NPN SMALL SIGNAL BJT	
R1	3M3	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R2	3M3	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R3	1Meg	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R4	N.M.	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	
R5	10R	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R6	NTC 2R5-S237	DWG	NTC RESISTOR P/N B57237S0259M000	EPCOS

R7	1Meg	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R8	1Meg	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R9	62K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R10	27K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R11	2M2	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R12	2M2	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R13	8K2	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R14	51K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R15	56K	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R16	N.M.	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	
R17	2M2	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R18	82K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R19	56K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R20	10K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R21	39R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R22	0R47	PTH	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C	VISHAY
R23	0R68	PTH	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C	VISHAY
R24	1Meg	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R25	56R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R26	1Meg	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R27	470R	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R28	33K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R29	1K0	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R30	10R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R31	33K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R32	470R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R33	N.M.	0805	NOT MOUNTED	
R34	8K2	1206	SMD STANDARD FILM RES - 1/4W - 1% - 100ppm/°C	VISHAY
R35	180K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R36	N.M.	0805	NOT MOUNTED	
R37	220K	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R38	56R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R39	N.M.	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	
R40	0R0	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R41	Jumper	WIRE	SHORTED BY WIRE	
R42	12K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R43	10R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R44	15K	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R45	N.M.	0805	NOT MOUNTED	
R46	100K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R47	1K5	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R48	180K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R49	39K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R50	6K2	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R51	120K	0805	SMD STANDARD FILM RES - 1/8W - 1% - 100ppm/°C	VISHAY
R52	12K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R53	2K2	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R54	0R0	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R55	2K7	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R56	18K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY

R57	47R	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R58	100K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R59	100K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R60	10K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R61	N.M.	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	
R62	4K7	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R65	120K	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
R66	2K2	1206	SMD STANDARD FILM RES - 1/4W - 5% - 250ppm/°C	VISHAY
R67	N.M.	0805	NOT MOUNTED	
R68	N.M.	1206	NOT MOUNTED	
R69	4K7	0805	SMD STANDARD FILM RES - 1/8W - 5% - 250ppm/°C	VISHAY
T1	1860.0076	DWG - ETD34	RESONANT POWER TRANSFORMER	MAGNETICA
U1	L6563H	SO-16	HIGH VOLTAGE START-UP TM PFC CONTROLLER	STMICROELECTRONICS
U2	L6699D	SO-16	IMPROVED HV RESONANT CONTROLLER	STMICROELECTRONICS
U3	SFH617A-4	DIP-4 - 10.16MM	OPTOCOUPLER	INFINEON
U4	TL431AIZ	TO-92	PROGRAMMABLE SHUNT VOLTAGE REFERENCE	STMICROELECTRONICS
Z1	PCB REV. 1.0			