

EVLSPIN9P1-3PH - Bill of materials

Reference	Part Value	Description	Package	Manufacturer	Part Number
CN1	MORSV-508-2P_screw	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510002 or equivalent
CN2	MORSV-508-3P_screw	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510003 or Equivalent
CN3	STRIP 1x5	Strip connector 5 pos, 2.54 mm	1x5 pins	WURTH ELEKTRONIK	61300511121 or equivalent
CN5	CON-1x10 NM	THOUGH-HOLE-1x10-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-110-04-F-S or Equivalent
CN6,CN9	CON-1x8 NM	THOUGH-HOLE-1x8-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-108-04-F-S or Equivalent
CN7,CN10	ESQ-119-37-L-D	THOUGH-HOLE-2x19-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	ESQ-119-37-L-D or Equivalent
CN8	CON-1x6 NM	THOUGH-HOLE-1x6-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-106-04-F-S or Equivalent
C1,C21,C35	1u	SMT ceramic capacitor	Size 0603		
C2,C3,C8,C22,C23,C24,C36,C37,C38	220n/100V	SMT ceramic capacitor	Size 0603		
C4	100n/100V	SMT ceramic capacitor	Size 0603		
C5,C6,C49	150u	Aluminum Electrolytic capacitor SMD	Diam. 12.5 mm - 13x13 mm	VISHAY	MAL215099908E3 or equivalent
C7	10nF	SMT ceramic capacitor	Size 0603		
C9,C27,C39	1n	SMT ceramic capacitor	Size 0603		
C10,C12,C30,C32,C43,C45,C48	4u7	SMT ceramic capacitor	Size 0603		
C11,C13,C28,C31,C33,C44,C46	100n	SMT ceramic capacitor	Size 0603		
C14,C25,C40	180p	SMT ceramic capacitor	Size 0603		
C15,C26,C41	100p	SMT ceramic capacitor	Size 0603		
C16	4.7nF	SMT ceramic capacitor	Size 0603		
C17	100nF	SMT ceramic capacitor	Size 0603		
C18,C19,C20	10pF	SMT ceramic capacitor	Size 0603		
C29	0.1uF/6.3V				
C34,C42,C50,C51,C52,C53,C54,C55	NM	SMT ceramic capacitor	Size 0603		
C47	10n	SMT ceramic capacitor	Size 0603		
D1,D2,D3,D4,D5,D6,D9	BAT30K	Small signal Schottky diodes	SOD-523	STMicroelectronics	BAT30KFILM or equivalent
D7,D8,D10	BAT60J	Small signal Schottky diode	SOD-323	STMicroelectronics	BAT60JFILM or equivalent

JP1,JP2,JP3,JP4	CLOSED 1-2	SMT Jumper	Soldering pads		
JP5,JP6	Closed 1-2	SMT Jumper	Soldering pads		
J1	STRIP 1x3	Strip connector 3 pos, 2.54 mm	1x3 pins	WURTH ELEKTRONIK	61300311121 or Equivalent
J2,J3,J4,J5,J6	STRIP 1x2	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121 or Equivalent
LED1	GREEN	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0603	WURTH ELEKTRONIK	150060VS75000 or equivalent
LED2,LED3,LED4	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0603	WURTH ELEKTRONIK	150060RS75000 or equivalent
NTC1	NTC-10K- NM	NTC Thermistor for Inrush current limiting		TDK	B57235S0... or equivalent
R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R16,R17,R19,R20,R21,R23,R24,R25,R26,R27,R28,R29,R83,R85		0 SMT resistor	Size 0603		
R15,R22	NM	SMT resistor	Size 0603		
R18,R52,R59,R61	330	SMT resistor	Size 0603		
R30	4K7	SMT resistor	Size 0603		
R31,R48,R63	56K	SMT resistor	Size 0603		
R32,R49,R65	750	SMT resistor	Size 0603		
R33,R50,R66,R73	15k	SMT resistor	Size 0603		
R34,R35,R36,R54,R76,R80,R81	10k	SMT resistor	Size 0603		
R37,R46,R64	1k	SMT resistor	Size 0603		
R38,R53,R55,R60	100K	SMT resistor	Size 0603		
R39,R40,R41	1K8	SMT resistor	Size 0603		
R42,R43,R44	NM 4K7	SMT resistor	Size 0603		
R45	3.9K	SMT resistor	Size 0603		
R47	68k	SMT resistor	Size 0603		
R51,R82	39k	SMT resistor	Size 0603		
R56,R57,R62	3K9	SMT resistor	Size 0603		
R58	N.M.	SMT resistor	Size 0603		
R67,R75	0R	SMT resistor	Size 0603		
R68	33k	SMT resistor	Size 0603		
R69	100k	1/4 Square Trimpot trimming potentiometer, Top Adjust	3266W	Bourns	3266W-1-xxx x LF
R70,R71,R72	10 mOhm-3W-1%	Power Metal Strip Resistors, Very High Power (to 3 W),Low Value	Size 2512	VISHAY	WSLP2512R0100FEA or equivalent
R74	6k8	SMT resistor	Size 0603		
R77,R78,R79	NM	SMT resistor	Size 0402		
SW1	CS-4-14-NTB	ROTARY SELECTOR SWITCHES (SMD)		Nidec Components	CS-4-14-NTB or equivalent
TP1	TP-ANELLO_1_32mm- NERO	Black bead terminal, diam. 1.32mm	Diam. 2,9 , Hole 1.6mm	Vero Technologies	20-2136 or equivalent

TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R or Equivalent
U1,U2,U3	STSPIN9P12	Scalable half-bridge up to 9 A with integrated gate driver	VFQFPN 7X7X1.0 49L PITCH 0.4	STMicroelectronics	STSPIN9P12
		P.C.B. EVLSPIN9P1-3PH Rev.2			