

EVLSPIN9P16 - 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-508-4P_screw	Terminal block T.H. 4 positions, 5.08 mm	Pitch 5.08 mm	Phoenix Contact	1715747 or equivalent
CN3	MORSV-350-7P_screw	Terminal block T.H. 7 positions 3.5 mm	Pitch 3,5 mm	Wurth Elektronik	691243110007 or equivalent
CN5	CON-1x10	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	THOUGH-HOLE-1x8-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-108-04-F-S or Equivalent
CN7,CN10	NM	THOUGH-HOLE-2x19-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-119-04-L-D or Equivalent
CN8	CON-1x6	THOUGH-HOLE-1x6-Pin height 14.8 - Body 8.5mn - picth 2.54		SAMTEC	SSQ-106-04-F-S or Equivalent
C1	100n/100V	SMT ceramic capacitor	Size 0603		
C2,C3	220u/100V	THT Electrolytic Capacitor	Diam. 12.5mm p. 5mm	Panasonic	UVY2A221MHD or equivalent
C4,C15,C24,C31	100p	SMT ceramic capacitor	Size 0603		
C5,C17,C22,C25,C37,C40	NM	SMT ceramic capacitor	Size 0603		
C6,C23	1u	SMT ceramic capacitor	Size 0603		
C7,C8,C9,C26,C27,C28	220n/100V	SMT ceramic capacitor	Size 0603		
C10,C14,C29,C32	10n	SMT ceramic capacitor	Size 0603		
C11,C30	1n	SMT ceramic capacitor	Size 0603		
C12,C13	220n	SMT ceramic capacitor	Size 0603		
C16,C19,C21,C33,C34,C35,C36,C41,C42	100n	SMT ceramic capacitor	Size 0603		
C18,C20,C38,C39	4u7	SMT ceramic capacitor	Size 0603		
D1,D2,D3,D4	BAT60J	Small signal Schottky diode	SOD-323	STMicroelectronics	BAT60JFILM or equivalent
JP1,JP5	CLOSED 2-3	SMT Jumper	Soldering pads		
JP2,JP3,JP4,JP6	OPEN	SMT Jumper	Soldering pads		
JP7,JP8	CLOSED 1-2	SMT Jumper	Soldering pads		
J1,J2,J3,J4	OPEN	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121 or Equivalent

LED1,LED4	YELLOW	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080YS75000 or equivalent
LED2,LED3	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080RS75000 or equivalent
NET1	N.M.				
NET2,NET3	N.M.				
R1	N.M.	SMT resistor	Size 0603		
R2,R31	47k	SMT resistor	Size 0603		
R3,R33,R39,R44,R45	10k	SMT resistor	Size 0603		
R4,R7,R10,R15,R16,R26,R32,R34,R 37,R42	0R	SMT resistor	Size 0603		
R5,R36	33k	SMT resistor	Size 0603		
R6,R35	500k	1/4 Square Trimpot trimming potentiometer, Top Adjust	3266W	Bourns	3266W-1-xxx x LF
R8,R38	43k	SMT resistor	Size 0603		
R9,R40	22k	SMT resistor	Size 0603		
R11,R13,R14,R18,R22,R23,R24,R25 ,R27,R30,R49,R52	100	SMT resistor	Size 0603		
R12,R43	100k	3/8" Square Trimpot trimming potentiometer, Top Adjust	3296Y	Bourns	3296Y-1-xxx x LF or equivalent
R17,R51	15 mOhm-1W-1%	Power Metal Strip Resistors, Very High Power (to 3 W),Low Value	Size 2512	VISHAY	WSL2512R0150FEA or equivalent
R19,R50	330	SMT resistor	Size 0805		
R20,R28,R41,R47,R48	330	SMT resistor	Size 0603		
R21	39k	SMT resistor	Size 0603		
R29,R46	NM	SMT resistor	Size 0603		
SW1,SW2	CS-4-14-NTB	ROTARY SELECTOR SWITCHES (SMD)		Nidec Components	CS-4-14-NTB or equivalent
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8, TP9,TP10,TP11,TP12,TP13,TP14,TP 15,TP16,TP17,TP18,TP19,TP20,TP2 1	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R or Equivalent
U1,U2	STSPIN9P16	STSPIN9P1 half-bridge system-in- package	VFQFPN 7X7X1.0 49L PITCH 0.4	STMicroelectronics	
VP1,VP3,VP4,VP5,VP2,VP7,VP8	EMPTY	PCB Assembly version solder dot			
VP6	FULL	PCB Assembly version solder dot			
		P.C.B. EVLSPIN99 new silkscreen			