

EVLSPIN9P21 - 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,C3	220u/100V	THT Electrolytic Capacitor	Diam. 12.5mm p. 5mm	Nichicon	UVY2A221MHD or equivalent
C2	100n/100V	SMT ceramic capacitor	Size 0603		
C4,C5	220n	SMT ceramic capacitor	Size 0603		
C6,C7,C8,C15,C17,C24	100n	SMT ceramic capacitor	Size 0603		
C9	1u	SMT ceramic capacitor	Size 0603		
C10,C11,C18	220n/100V	SMT ceramic capacitor	Size 0603		
C12,C13,C25,C26	100p	SMT ceramic capacitor	Size 0603		
C14,C16	4u7	SMT ceramic capacitor	Size 0603		
C19,C22,C23	10n	SMT ceramic capacitor	Size 0603		
C20,C21	NM	SMT ceramic capacitor	Size 0603		
C27	1n	SMT ceramic capacitor	Size 0603		
JP1,JP2	CLOSED 1-2	SMT Jumper	Soldering pads		
JP3	OPEN	SMT Jumper	Soldering pads		
J1	OPEN	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121 or Equivalent
J2,J3	CLOSED	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121 or Equivalent
LED1	YELLOW	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080YS75000 or equivalent

LED2	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080RS75000 or equivalent
NET1	N.M.				
NET2	N.M.				
R1,R11,R14,R19,R20,R28,R33	0R	SMT resistor	Size 0603		
R2,R3,R4,R27	10k	SMT resistor	Size 0603		
R5,R6,R7,R15,R16	330	SMT resistor	Size 0603		
R8,R9,R10,R12,R13,R17,R18,R31	100	SMT resistor	Size 0603		
R21	33k	SMT resistor	Size 0603		
R22	15 mOhm-1W-1%	Power Metal Strip Resistors, Very High Power (to 3 W),Low Value	Size 2512	VISHAY	WSL2512R0150FEA or equivalent
R23,R24	47k	SMT resistor	Size 0603		
R25	1k	SMT resistor	Size 0603		
R26	100k	3/8" Square Trimpot trimming potentiometer, Top Adjust	3296Y	Bourns	3296Y-1-xxx x LF or equivalent
R29	43k	SMT resistor	Size 0603		
R30	22k	SMT resistor	Size 0603		
R32	500k	1/4 Square Trimpot trimming potentiometer, Top Adjust	3266W	Bourns	3266W-1-xxx x LF
R34	NM	SMT resistor	Size 0603		
SW1	CS-4-14-NTB	ROTARY SELECTOR SWITCHES (SMD)		Nidec Components	CS-4-14-NTB or equivalent
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8, TP10,TP11,TP12,TP13	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R or Equivalent
TP9	TP-SMD-S2761-46R	40x71 mils SMD PAD	SMD Pad 40x71mils	HARWIN	
U1	STSPIN9P21	STSPIN9P2 full-bridge system-in- package	VFQFPN 9.0x7.0x1.0 55L PITCH 0.4	STMicroelectronics	STSPIN9P21
VP1	FULL	PCB Assembly version solder dot			
VP2,VP3,VP4	EMPTY	PCB Assembly version solder dot			
		P.C.B. EVLSPIN9P2			