

## EVALST7580 Bill of Materials

Reference	Value	Description
CN1	CON-MOLEX-KK100-3P	CON-MOLEX-42376-3P-90° (Pin 2 removed)
CN2	CON-MOLEX-KK100-3P	CON-MOLEX-42376-3P-90°
CN3	uSDCARD-HRS-DM3DSF	uSDCARD-HRS-DM3DSF
CN4	CN-USB	USBMB-HRS-UX60SC
C1_DC	NC	SMD-0805
C2	10uF/50V X5R	SMD-1206
C3	18nF/25V	SMD-0603
C4	220nF X1	MKP safety capacitor – p=15mm
C5	NC	MKP safety capacitor – p=22.5mm
C6	10nF/25V	SMD-0603
C7,C10,C11,C13,C19,C24, C26,C27,C30,C32,C34,C35, C36,C40,C42,C43,C45	100nF/25V	SMD-0402
C8	10uF/25V	SMD-1210
C9	4.7pF/C0G	SMD-0402
C12,C14,C17,C41	10uF/6.3V	SMD-0603
C15,C18,C23,C29	100pF/C0G	SMD-0402
C16	27pF/C0G	SMD-0402
C20	100nF/C0G	SMD-0402
C21,C44	100nF/25V	SMD-0603
C22	1nF/C0G	SMD-0402
C25, C37	100nF	SMD-0603
C28	10uF/10V	SMD-0805
C31	4.7uF/4V	SMD-0402
C33,C38	20pF	SMD-0402
C39	4.7uF/10V (Tantalum)	SMD-3216
C46, C47	10pF	SMD-0402
DL1,DL3	LED-GREEN	SMD-0603
DL2,DL5	LED-RED	SMD-0603
DL4	LED-YELLOW	SMD-0603
D1	SM6T15CA*	SMB
D2,D3	STPS1L30A*	DO214AC
D4	SM6T6V8CA*	SMB
D5	LL4148	SOD80
FB1	BLM21PG331SN1	Ferrite Bead SMD-0805
FB2	BLM21PG300SN1	Ferrite Bead SMD-0805
FB3	BLM21PG600SN1D	Ferrite Bead SMD-0805

Reference	Value	Description
ISO1	TLP781GB	Photo-coupler DIP4
JP1,JP2	OPEN	JUMPER SMD
JP3,JP4,JP10,JP11	CLOSE	JUMPER SMD
JP5	ST7580 UART	STRIP 5x1 2.54mm MALE
JP6	STM32 PLC UART	STRIP 3x1 2.54mm MALE
JP7,JP8	CLOSE	JUMPER 2x1 2.54mm MALE
JP9	STM32 BOOT CONFIG	JUMPER 2x2 2.54mm MALE 90°
JTAG1	JTAG_20P	FLAT CONNECTOR 10X2 MALE 90°
J1	SPI2 CONNECTOR	STRIP 6x1 2.54mm MALE
J2	I2C1 – UART1 CONNECTOR	STRIP 5x2 2.54mm MALE 90°
L1	15uH	EPCOS B82464-A4153K
L2	220uH	EPCOS B82462-A4224K
Q1	2N7002	SOT23
Q3	BC847CL	SOT23
RN2,RN3	10K	RESN-CAY10
R1	NC	SMD-1206
R2	0R	SMD-1206
R3,R4,R7,R8	56K	SMD-2512
R5	150R	SMD-0603
R6,R20	33K	SMD-0402
R9,R10,R23,R30,R34,R36, R44,R47,R48,R49,R50,R51	10K	SMD-0402
R11	130R	SMD-0402
R12	22K	SMD-0402
R13	330R	SMD-0402
R14	3K9	SMD-0603
R15	5K1	SMD-0402
R16	1K5	SMD-0402
R17,R19	47K	SMD-0402
R18,R25,R33,R37,R39,R41, R52,R53,R54,R55	10K	SMD-0603
R21,R22	100k	SMD-0603
R24,R26,R29	47K	SMD-0603
R27	100k	SMD-0402
R28	NC	SMD-0402
R31,R32	560R	SMD-0402
R35,R38,R40	470R	SMD-0402
R42,R46	22R	SMD-0402
R43	1K5	SMD-0402
R45	330R	SMD-0402

Reference	Value	Description
R56	4K7 1%	SMD-0402
R57	1MEG	SMD-0402
R58	24K 1%	SMD-0402
R59	18K7 1%	SMD-0402
R62	22K	SMD-0402
SW1	DIPSW-4P-90	DIP SWITCH 2.54 mm 4-WAY 90°
SW2	ST7580 RESET	PUSH BUTTON 90°
SW3	PUSH_2	PUSH BUTTON 90°
SW4	PUSH_1	PUSH BUTTON 90°
SW5	STM32 RESET	PUSH BUTTON 90°
TP1	PA_OUT	
TP2	CL	
TP3	RX_IN	
TP4	T_REQ	
TP5	TX_OUT	
TP6	ZC_IN	
TP7	RXD	
TP8	TXD	
TP9	PA_ADC	
TP10	VSS	
T1	TDK SRW13EP-X05H002 / WE 750-510-231	PLC COUPLING TRANSFORMER
U1	LK112SM33TR*	SOT23-5
U2	ST7580*	QFN48
U3	EMIF06-MSD02N16*	MicroQFN 16L 3.5x1.2mm
U4	STM32F103CBT6*	LQFP48
U5	USBLC6-2P6*	SOT-666
Y1	8MHz	XTAL-HC49U