

Level Shifter Demo Board - Populated Parts

Qty.	Refdes.	Description	Manufacturer	Manufacturer PN	Digikey PN	Unit Price	Extended Price
7	C1, C2, C3, C4, C5, C6, C7	0.1u capacitor, ceramic, 50V 10%, X7R, 0603	Samsung	CL10B104KB8NNNL	1276-CL10B104KB8NNNLCT-ND	\$0.10	\$0.70
2	D1, D2	blue led, Vf=3.2V, 0603	Würth	150060BS75000	732-4966-1-ND	\$0.16	\$0.32
1	D3	orange led, Vf=2V, 0603	Lite-On	LTST-C190KFCT	160-1434-1-ND	\$0.24	\$0.24
2	J1, J4	3 pin header, 0.1", vertical, through hole	Sullins	PREC003SAAN-RC	S1012EC-03-ND	\$0.16	\$0.32
1	J2	2 pin header, 0.1", vertical, through hole	Sullins	PREC002SAAN-RC	S1012EC-02-ND	\$0.16	\$0.16
1	J3	5 pin header, 0.1", vertical, through hole	Sullins	PREC005SAAN-RC	S1012EC-05-ND	\$0.15	\$0.15
1	J5	8 pin header, 0.1", vertical, through hole	Sullins	PREC008SAAN-RC	S1012EC-08-ND	\$0.19	\$0.19
8	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	n-channel MOSFET, 60V, 300mA, SOT-23-3	Nexperia	2N7002.215	1727-2764-1-ND	\$0.18	\$1.42
8	R1, R3, R7, R10, R24, R28, R33, R35	10ohm resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW060310R0FKEAC	541-3952-1-ND	\$0.10	\$0.80
4	R2, R9, R27, R34	4.7K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW06034K70FKEA	541-4.70KHCT-ND	\$0.10	\$0.40
4	R4, R11, R29, R36	210ohm resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603210RFKEA	541-210HCT-ND	\$0.10	\$0.40
13	R5, R6, R8, R14, R15, R17, R19, R20, R21, R22, R26, R37, R46	100K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603100KFKEA	541-100KHCT-ND	\$0.10	\$1.30
6	R12, R13, R16, R18, R23, R25	200K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603200KFKEAC	541-4027-1-ND	\$0.10	\$0.60
2	R30, R31	20K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW060320K0FKEC	541-2993-1-ND	\$0.10	\$0.20
1	R32	1K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW06031K00FKEA	541-1.00KHCT-ND	\$0.10	\$0.10
1	TP12	multipurpose test point loop	Keystone	5011	36-5011-ND	\$0.35	\$0.35
1	U1	optoisolator, 4 channel, 16-SOIC	Toshiba	TLP291-4(GB,E)	TLP291-4(GBE)-ND	\$1.04	\$1.04
2	U2, U4	quad op-amp, rail to rail, 50V, 14-TSSOP	Analog Devices	ADA4522-4ARUZ	ADA4522-4ARUZ-ND	\$8.45	\$16.90
1	U3	2 channel mux, schmitt trigger, SC-70-6	Texas Instruments	SN74AUP1T157DCKR	296-27393-1-ND	\$0.37	\$0.37
						BOM Total	\$25.96

Level Shifter Demo Board - Depopulated Parts

Qty.	Refdes.	Description	Manufacturer	Manufacturer PN	Digikey PN	Unit Price	Extended Price
8	R38, R39, R40, R41, R42, R43, R44, R45	extra resistor footprint, 0603					
						BOM Total	\$0.00