

IR Detector v2 BOM

Digi-Key						Description	Datasheet Links
RefDes	Qty	Unit Price	Sub Price	Manufacturer	PN		
C1	10	0.058	\$0.58	Samsung	CL21B103KBANFNC	CAP CER 10000PF 50V X7R 0805	http://www.samsungsem.com/kr/support/product-search/mlcc/___icsFiles/afielddf
C2	10	0.116	\$1.16	Samsung	CL21B154KBFNNNE	CAP CER 0.15UF 50V X7R 0805	http://www.samsungsem.com/kr/support/product-search/mlcc/___icsFiles/afielddf
D1	10	0.412	\$4.12	Vishay	TSAL6100	EMITTER IR 940NM 100MA RADIAL	http://www.vishay.com/docs/81009/tsal6100.pdf
D2	10	0.18	\$1.80	Würth Elec	150080BS75000	LED BLUE CLEAR 0805 SMD	https://katalog.we-online.de/led/datasheet/150080BS75000.pdf
J1	10	0.258	\$2.58	Molex	0022286030	CONN HEADER R/A 3POS 2.54MM	https://www.molex.com/pdm_docs/sd/022286030_sd.pdf
Q1	10	0.202	\$2.02	Diodes Inc	2N7002-7-F	MOSFET N-Ch 60V 115mA SOT23-3	https://www.diodes.com/assets/Datasheets/ds11303.pdf
R1	10	0.082	\$0.82	Panasonic	ERJ-6ENF1003V	Res SMD 100K ohm 1% 1/8W 0805	https://industrial.panasonic.com/cdbs/www-data/pdf/RDA0000/AOA0000C304.p
R2,R5	20	0.082	\$1.64	Panasonic	ERJ-6ENF6810V	Res SMD 681 ohm 1% 1/8W 0805	https://industrial.panasonic.com/cdbs/www-data/pdf/RDA0000/AOA0000C304.p
R3	10	0.082	\$0.82	Panasonic	ERJ-6ENF47R0V	RES SMD 47 OHM 1% 1/8W 0805	https://industrial.panasonic.com/cdbs/www-data/pdf/RDA0000/AOA0000C304.p
R4	10	0.082	\$0.82	Panasonic	ERJ-6ENF1002V	Res SMD 10K ohm 1% 1/8W 0805	https://industrial.panasonic.com/cdbs/www-data/pdf/RDA0000/AOA0000C304.p
U1	10	0.36	\$3.60	TI	SN74HC00DR	IC GATE NAND 4CH 2-INP 14SOIC	http://www.ti.com/lit/ds/symlink/sn74hc00.pdf
U2	10	1.04	\$10.40	Vishay	TSOP34438/TSOP34456	IR Receiver 38/56 KHz Side View	http://www.vishay.com/docs/82489/tsop322.pdf
VR1	10	0.286	\$2.86	Bourns	TC33X-2-202E	TRIMMER 2K OHM 0.1W J LEAD TOP	https://www.bourns.com/docs/Product-Datasheets/TC33.pdf
VR2	10	0.286	\$2.86	Bourns	TC33X-2-501E	TRIMMER 500 OHM 0.1W J LEAD TOP	https://www.bourns.com/docs/Product-Datasheets/TC33.pdf
Sub Digi-Key			\$36.08				
Shipping	1	8.99	\$8.99				
Tax		8.50%	\$3.07				
Total Digi-Key			\$48.14				
PCB	10	0.21	\$2.10	Seeed	IRDV2 PCB	IRD PCB - 120 Minimum Order - Includes Shipping	
Total Parts			\$50.24				
Assembly	10	4.01	\$40.10				
IRD Total Costs	10		\$90.34				
IRD Per Board			\$9.03				

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