

Reference	Value	Footprint	MPN	SKU
<b>Light barrier test</b>				
D1	SFH 4646	Octanis3:MIDLED	720-SFH4646Z	
R1	100 Ohm, but also try higher values	SeeedOPL-Resistor-2016:R0603	RC0603JR-07100RL	301010090
R2	DNP	Resistors_SMD:R_0603		
Q1	SFH 3605	Octanis3:MIDLED_phototransistor	SFH 3605-Z	
R4	DNP	Resistors_SMD:R_0603		
RV1	2k Trimmer	pot:3223G	3313J-1-201E	
R3	DNP	Resistors_SMD:R_0603		
Q2	SFH 3605	Octanis3:MIDLED_phototransistor	SFH 3605-Z	
R28	DNP	Resistors_SMD:R_0603		
RV2	2k Trimmer or higher	pot:3223G	3313J-1-201E	
R29	DNP	Resistors_SMD:R_0603		

## Matching network variant 1: according to guided example

L3	0 Ohm	Resistors_SMD:R_0805	CV201210-R56K	
L4	0 Ohm	Resistors_SMD:R_0805	CV201210-R56K	
R21	330 Ohm	SeeedOPL-Resistor-2016:R0603	RC0603FR-07330RL	301010300
R22	330 Ohm	SeeedOPL-Resistor-2016:R0603	RC0603FR-07330RL	301010300
C12	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101	302010076
C13	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101	302010076
C15	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101	302010076
C16	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101	302010076
C19	150pF	SeeedOPL-Capacitor-2016:C0402	CC0402JRNPO9BN470	302010007
C22	150pF	SeeedOPL-Capacitor-2016:C0402	CC0402JRNPO9BN470	302010007

C21	DNP	Capacitors_SMD:C_0603	
C20	DNP	Capacitors_SMD:C_0603	
C24	15 pF	Capacitors_SMD:C_0603	
C25	DNP	Capacitors_SMD:C_0603	
C23	220 pF	Capacitors_SMD:C_0603	GQM1875C2E820JB12D
R23	DNP	Resistors_SMD:R_0603	
ant1	NFC_antenna	Octanis3:NFC_ANTENNA_CIRC	

## Matching network variant 2: similar to Demo board

L3	560nH (part number 742792042)	Resistors_SMD:R_0805	CV201210-R56K or 742792042)
L4	560nH (part number 742792042)	Resistors_SMD:R_0805	CV201210-R56K or 742792042)
R21	330 Ohm	SeeedOPL-Resistor-2016:R0603	RC0603FR-07330RL 301010300
R22	330 Ohm	SeeedOPL-Resistor-2016:R0603	RC0603FR-07330RL 301010300
C12	180 pF	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101 302010076
C13	180 pF	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101 302010076
C15	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101 302010076
C16	DNP	SeeedOPL-Capacitor-2016:C0603	CC0603JRNPO9BN101 302010076
C19	82pF	SeeedOPL-Capacitor-2016:C0402	CC0402JRNPO9BN470 302010007
C22	82pF	SeeedOPL-Capacitor-2016:C0402	CC0402JRNPO9BN470 302010007
C21	DNP	Capacitors_SMD:C_0603	
C20	DNP	Capacitors_SMD:C_0603	
C24	150 pF	Capacitors_SMD:C_0603	
C25	DNP	Capacitors_SMD:C_0603	
C23	150 pF	Capacitors_SMD:C_0603	GQM1875C2E820JB12D
R23	DNP	Resistors_SMD:R_0603	
ant1	NFC_antenna	Octanis3:NFC_ANTENNA_CIRC	

## Explanations

"DNP" = Do not place