





Title		
Size	Number	Revision
A4		
Date:	3/07/2025	Sheet of
File:	C:\Nuno Folder\Relay_muxlexer.Sch	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor (Axial)	C1, C2, C3, C4, C9, C10, C11	0805-c	Cap	7
Cap Pol2	Polarized Capacitor (Axial)	C5	1206-T	Cap Pol2	1
	Capacitor	C6, C8	0805-c	Cap	2
Cap Pol2	Polarized Capacitor (Axial)	C7	0805-c	Cap Pol2	1
LED0	Typical INFRARED GaAs LED	D1_Relay1, D1_Relay2, D1_Relay3, D2_Relay1, D2_Relay2, D2_Relay3, D3_Relay1, D3_Relay2, D3_Relay3, D4_Relay1, D4_Relay2, D4_Relay3, D5_Relay1, D5_Relay2, D5_Relay3, D6_Relay1, D6_Relay2, D6_Relay3, D7_Relay1, D7_Relay2, D7_Relay3, D8_Relay1, D8_Relay2, D8_Relay3	0402-R	LED0	24
LED0	Typical INFRARED GaAs LED	D9	led-0805	LED0	1
610106249221	WR-PHD Socket Header, SMT, Angled, pitch 2.54mm, 2 Row, 6P	J3	610106249221	610106249221	1
Relay-SPDT	Single-Pole Dual-Throw Relay	K1_Relay1, K1_Relay2, K1_Relay3, K2_Relay1, K2_Relay2, K2_Relay3, K3_Relay1, K3_Relay2, K3_Relay3, K4_Relay1, K4_Relay2, K4_Relay3, K5_Relay1, K5_Relay2, K5_Relay3, K6_Relay1, K6_Relay2, K6_Relay3, K7_Relay1, K7_Relay2, K7_Relay3, K8_Relay1, K8_Relay2, K8_Relay3	DIL-14	Relay-SPDT	24
Header 8	Header, 8-Pin	P1	HDR1_8	Header 8	1
Coaxial	Coaxial Connectors	P2	mmcx3	Coaxial	1
610126249121	WR-PHD Pin Header, SMT, Angled, pitch 2.54mm, 2 Row, 26P	P4	610126249121	610126249121	1
Header 3X2	Header, 3-Pin, Dual row	P5	HDR2X3	Header 3X2	1
Res1	Resistor	R1_Relay1, R1_Relay2, R1_Relay3, R2_Relay1, R2_Relay2, R2_Relay3, R3_Relay1, R3_Relay2, R3_Relay3, R4_Relay1, R4_Relay2, R4_Relay3, R5_Relay1, R5_Relay2, R5_Relay3, R6_Relay1, R6_Relay2, R6_Relay3, R7_Relay1, R7_Relay2, R7_Relay3, R8_Relay1, R8_Relay2, R8_Relay3	0402-R	Res1	24
Res1	Resistor	R9, R10, R11, R12	0805	Res1	4
MCP23S17-E/SS	16-Bit I/O Expander with Serial Interface, 28-Pin SSOP, Extended Temperature	U1, U5	SSOP-SS28_N	MCP23S17-E/SS	2
ULN2803LW	High-Voltage, High-Current Darlington Array	U2, U3, U6	LW18_N	ULN2803LW	3
LM1085ISX-5.0/NOPB	3A Low Dropout Positive Regulators, 3-pin TO-263, Pb-Free	U4	KT0003B_N	CMP-0062-00617-5	1