

Title		
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A4		
Date:	11.25.2022	Sheet of
File:	D:\SDRProject\.\main.SchDoc	Drawn By:

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A

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B

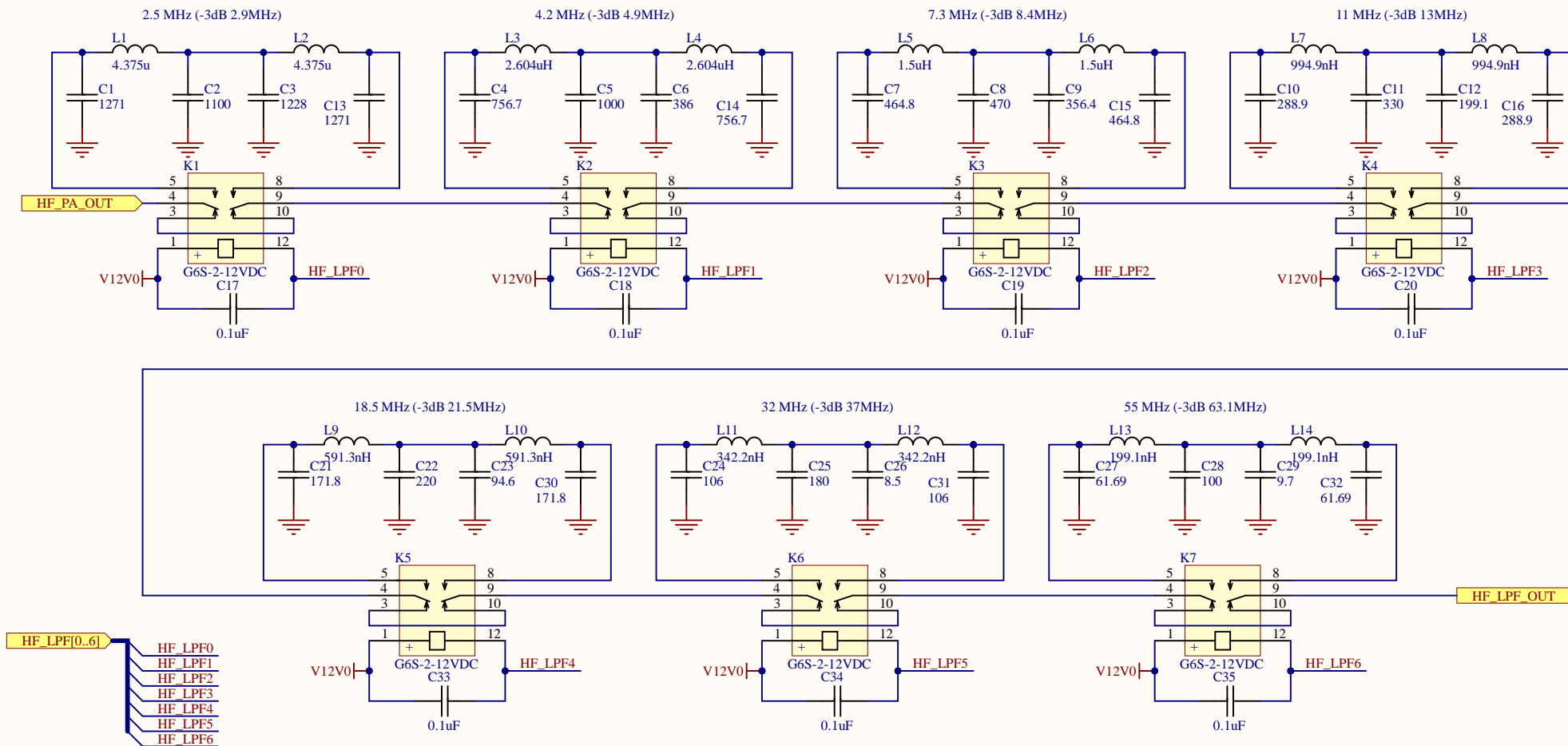
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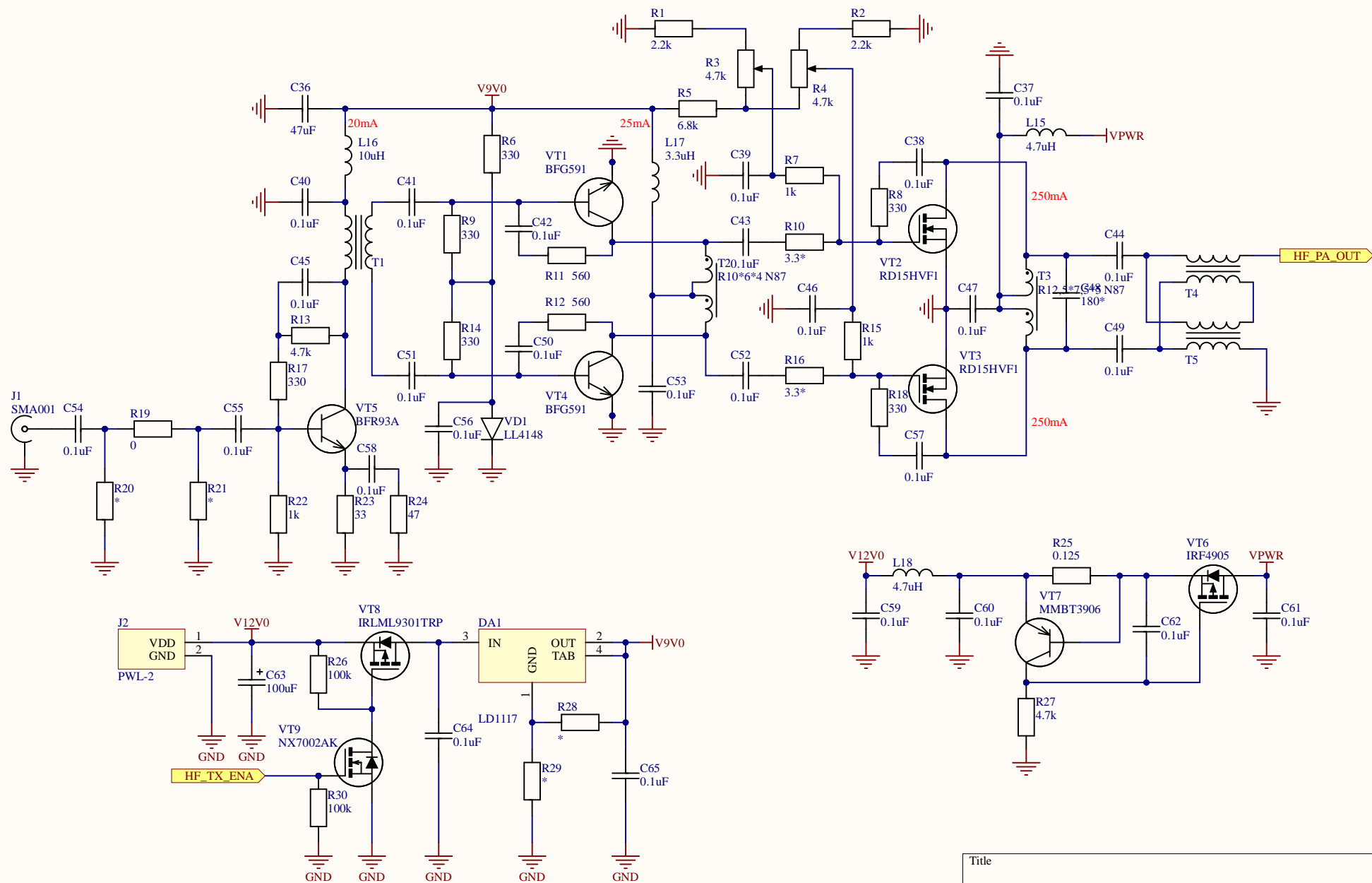
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1

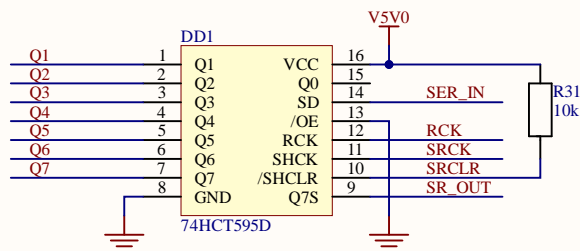
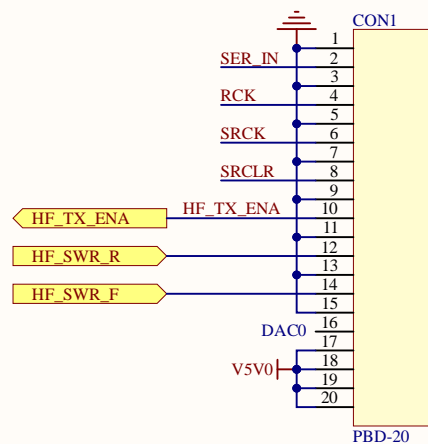
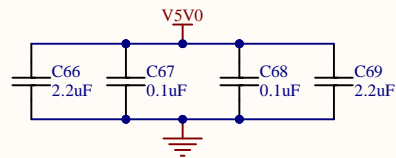
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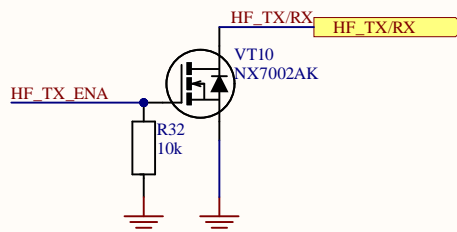
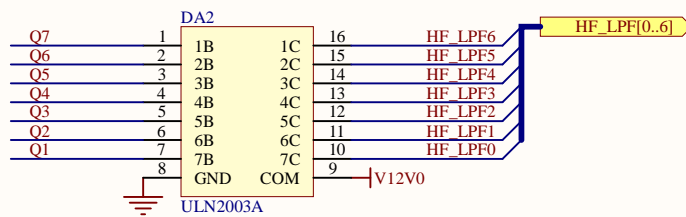
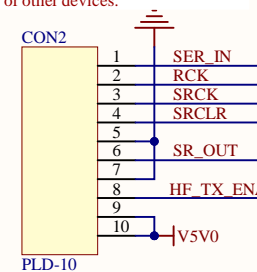
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The shift register (74HCT595) output that can be used to control an antenna tuner or other devices.



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Component	Description	Designator	Footprint	Refset	Quantity
1271	Capacitor 3.2x1.6 mm	C1, C13	CAPC3216AT25N	Cap1206	2
1100	Capacitor 3.2x1.6 mm	C2	CAPC3216AT25N	Cap1206	1
1228	Capacitor 3.2x1.6 mm	C3	CAPC3216AT25N	Cap1206	1
756.7	Capacitor 3.2x1.6 mm	C4, C14	CAPC3216AT25N	Cap1206	2
1000	Capacitor 3.2x1.6 mm	C5	CAPC3216AT25N	Cap1206	1
388	Capacitor 3.2x1.6 mm	C6	CAPC3216AT25N	Cap1206	1
444.8	Capacitor 3.2x1.6 mm	C7, C15	CAPC3216AT25N	Cap1206	2
470	Capacitor 3.2x1.6 mm	C8	CAPC3216AT25N	Cap1206	1
756.4	Capacitor 3.2x1.6 mm	C9	CAPC3216AT25N	Cap1206	1
288.9	Capacitor 3.2x1.6 mm	C10, C16	CAPC3216AT25N	Cap1206	2
330	Capacitor 3.2x1.6 mm	C11	CAPC3216AT25N	Cap1206	1
795.1	Capacitor 3.2x1.6 mm	C12	CAPC3216AT25N	Cap1206	1
0.1uF	Capacitor 2x1.25 mm	C17, C18, C19, C20, C23, C24, C25, C26, C29, C40, C41, C42, C43, C45, C46, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C64, C65, C67, C68, C70, C72, C73, C74	CAPC2013X100N	Cap0805	26
771.8	Capacitor 3.2x1.6 mm	C21, C30	CAPC3216AT25N	Cap1206	2
220	Capacitor 3.2x1.6 mm	C22	CAPC3216AT25N	Cap1206	1
94.6	Capacitor 3.2x1.6 mm	C23	CAPC3216AT25N	Cap1206	1
106	Capacitor 3.2x1.6 mm	C24, C31	CAPC3216AT25N	Cap1206	2
180	Capacitor 3.2x1.6 mm	C25	CAPC3216AT25N	Cap1206	1
8.5	Capacitor 3.2x1.6 mm	C26	CAPC3216AT25N	Cap1206	1
61.69	Capacitor 3.2x1.6 mm	C27, C32	CAPC3216AT25N	Cap1206	2
100	Capacitor 3.2x1.6 mm	C28	CAPC3216AT25N	Cap1206	1
9.7	Capacitor 3.2x1.6 mm	C29	CAPC3216AT25N	Cap1206	1
47uF	GRM32ER71A476AS-15	C36	CAPC3225X270N	Cap1210	1
0.1uF	GRM1555A201010E	C37, C47	CAPC1216AT125N	Cap1209	2
0.1uF	GRM43ER721168W0-1 (1812, X7R, EIA, 0.1uF, DCA30V), GRM43ER721168W0 (1812, X7R, EIA, 0.1uF, DCA30V)	C44, C49	CAPC4329X218N	Cap1812	2
180*	Capacitor 3.2x1.6 mm	C48	CAPC3216AT25N	Cap1206	1
100uF	ELUF1E1471	C63	CAPPE500-1050K1300	CapPolarized	1
2.2uF	Capacitor 2x1.25 mm	C66, C69	CAPC2013X100N	Cap0805	2
10uF	Capacitor 2x1.25 mm	C71	CAPC2013X100N	Cap0805	1
PBD-20	CCN1	PBD-20	CCNHEC108-20		1
PLD-10	CCN2	PLD-10	CCNHEC108-10		1
D1117	Adjustable and fixed low drop positive voltage regulator	DA1	SO123P700X180-4N	D1117	1
ULN2003A	High Voltage, High Current Darlington Transistor Array	DA2	SOIC127P400X175-16N	ULN2003A	1
LM358	Single Supply Dual Operational Amplifier	DA3	SOIC127P400X175-16N	LM358	1
74HC159D	8-Bit serial-in, serial-out parallel-out shift register with output latches, 3-state	DD1	SOIC127P400X175-16N	74HC159D	1
RAM001	RAM 2	D1	RAM002	8F Connector	1
PMC-2	PMC-2	PMC-2	PMC-2 CONNECTOR		1
BNC	EM-BNC28M-NCP-50	D3	BNC-TVCO, 1-	BNC Connector	1
RAM002	RAM 2	D4	RAM002	8F Connector	1
665-2-12VDC	Compact, Industry Standard 2-pin ribbon	K1, K2, K3, K4, K5, K6, K7, K8	665-2	665-2-12VDC	8
4.375u	IND-2	L1, L2	IND-2	Inductor	2
2.68mH	IND-2	L3, L4	IND-2	Inductor	2
1.5uH	IND-6	L5, L6	IND-6	Inductor	2
994.9mH	IND-6	L7, L8	IND-6	Inductor	2
991.2mH	IND-6	L9, L10	IND-6	Inductor	2
142.2mH	IND-6	L11, L12	IND-6	Inductor	2
779.1mH	IND-6	L13, L14	IND-6	Inductor	2
4.7uH	Bocchen, 4.7uH 10%, 10k-5.0k, RDC, max=0.05	L15, L16	Inductor radial	Inductor	2
10uH	RAMD 0805-50, 100mH	L16	RES12013X64N	Inductor	1
3.3uH	3.3uH ±10% precision air-core inductor, 670mA @ 3.3kHz, 0.05Ω DC R, 385K A - RL5	L17	RES1270-650K250	Inductor	1
100uH	BLA100-10N inductor	L19, L20	RES1016-650K250	Inductor	2
2.2k	Resistor	R1, R2, R3, R36	RES12013X64N	Res0805	4
4.7k	Resistor	R3, R4	RES12013X64N	Res0805	1
6.8k	Resistor	R5	RES12013X64N	Res0805	1
130	Resistor	R6, R6, R9, R14, R17, R18	RES12013X64N	Res0805	4
1k	Resistor	R7, R15, R22	RES12013X64N	Res0805	3
1.5	Resistor	R10, R16	RES12013X64N	Res0805	2
560	Resistor	R11, R12	RES12013X64N	Res0805	2
2.7k	Resistor	R13, R27	RES12013X64N	Res0805	2
5	Resistor	R19	RES12013X64N	Res0805	1
1	Resistor	R20, R21, R28, R29, R30, R32	RES12013X64N	Res0805	4
33	Resistor	R23	RES12013X64N	Res0805	1
47	Resistor	R24	RES12013X64N	Res0805	1
6.7-125	8 Turns 1 Ohm in parallel 1206	R25	RES1270-650K250	Res0805	1
100k	Resistor	R26, R30	RES12013X64N	Res0805	2
10k	Resistor	R31, R32	RES12013X64N	Res0805	2
50	Resistor	R34, R35	RES12013X64N	Res0805	2
100	Resistor	R37, R41	RES12013X64N	Res0805	2
22k	Resistor	R38, R39	RES12013X64N	Res0805	2
R10*4*4-NB7	R10*4*4-NB7 (BA430) transformer	T1, T2	RT06444	Transformer type 2	2
R12*3*3*5-NB7	transformer	T3	RT2.5x7.5x5	Transformer type 1	1
TPA6122/1416-C TDC	TPA6122/1416-C TDC	T4, T5	R22x1.446	transformer type 2	2
BN43-302	BN43-302	T6	TANDEM	capacitance match	1
1.6148	Small signal Schottky diodes	VD1, VD4	DIODE1F2015N	DIODE	2
BAT142P10M	Small signal Schottky diodes	VD2, VD3	SD10816AT10N	DIODE	2
BAT142L	BAT142L	VD5	SO179P22V6119-3N	DIODE 2-1A, 3C-36-2C	1
BF6091	NPN 7 GHz wideband transistor	VY1, VY4	SO123P700X180-4N	BF6091	2
BD104WF1	NPN 6 GHz wideband transistor	VY2, VY3	TD-220-MFLIP	BD104WF1	2
BF9W3A	NPN 6 GHz wideband transistor	VY5	SO179P22V6119-3N	BF9W3A	1
BF4905	HEMTT Power MOSFET	VY6	TD-220-v	BF4905	1
LM48873906	LM488739061TG, PNP General Purpose Amplifier	VY7	SO179P22V6119-3N	LM48873906	1
88LA9318P	88LA9318P	VY8	SO179P22V6119-3N	88LA9318P	1
NX2005M	NX2005M	VY9, VY10	SO179P22V6119-3N	NX2005M 1G, 25, 50	2