



MATERIAL BUILD RECORD

Department of
Physics & Astronomy

Project: FOX TRANSMITTER
Assembly: 102-73181

SOT89 RF AMP (TX_ENA)
Board: 102-73181.28
Schematic: 102-73181.28

Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
4	1	2.3C Bot	0.650 1.105	CAP CER X7R 50V SM0603	C11	.01UF	CL10B103KB8NNNC									
4	1	2.3B Bot	0.335 1.200	CAP CER X7R 50V SM0603	C15	.01UF	CL10B103KB8NNNC									
4	1	2.2B Bot	0.205 0.503	CAP CER X7R 50V SM0603	C9	.01UF	CL10B103KB8NNNC									
5	1	2.3C Top	1.320 0.335	CAP NPO/BP SM0805	C2	10000PF	C0805X103K5GECAUTO									
6	1	2.5C Top	1.840 0.540	CAP NPO/BP SMR0805-41	C21	10000PF	C0805X103K5GECAUTO									
7	1	2.4C Bot	1.205 0.795	CAP NPO/BP SM0603	C12	1000PF	GRM1885C1H102JA01J									
7	1	2.6C Top	1.825 0.870	CAP NPO/BP SM0603	C4	1000PF	GRM1885C1H102JA01J									
8	1	2.5C Top	1.825 0.720	CAP NPO/BP SM0603	C1	100PF	C0603C101M5GACTU									
8	1	2.4C Top	1.150 0.830	CAP NPO/BP SM0603	C14	100PF	C0603C101M5GACTU									
8	1	2.6D Bot	0.500 1.425	CAP NPO/BP SM0603	C7	100PF	C0603C101M5GACTU									
8	1	2.1C Top	0.305 0.550	CAP NPO/BP SM0603	C8	100PF	C0603C101M5GACTU									
9	1	2.2C Top	0.770 0.690	CAP NPO/BP SM0805	C3	10PF	08055A100JAT2A									
10	1	2.3C Bot	0.850 1.120	CAP X7R/BX SM0805	C10	2.2UF	UMK212BB7225KG-T									
10	1	2.6C Bot	1.815 0.870	CAP X7R/BX SM0805	C6	2.2UF	UMK212BB7225KG-T									
11	1	2.4C Bot	0.940 0.755	CAP NPO/BP SM0603	C13	330PF	C0603C331J50GACTU									
12	1	2.5D Top	2.080 0.690	N/A Not Applicable SM0805	C22	N/A	Do NOT Install									
12	1	2.5D Top	2.045 0.310	N/A Not Applicable SM0805	C24	N/A	Do NOT Install									
12	1	2.2C Top	0.890 0.310	N/A Not Applicable SM0805	C5	N/A	Do NOT Install									



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13	2	2.5C Top	1.840 0.440	N/A Not Applicable SMR0805-41	C25	N/A	Do NOT Install									
16	2	Top	0.100 3.000	CONN HEADER CONN_NOTE	HDR1	PBC03SADN	PBC03SADN									
16	2	Top	0.700 3.000	CONN HEADER CONN_NOTE	HDR2	PBC03SADN	PBC03SADN									
16	2	Top	1.300 3.000	CONN HEADER CONN_NOTE	HDR3	PBC03SADN	PBC03SADN									
16	2	Top	1.900 3.000	CONN HEADER CONN_NOTE	HDR4	PBC03SADN	PBC03SADN									
17	2	2.3B Top	0.360 0.935	JUMPER HEADER HDRB 2	JP1	PBC02SAAN	PBC02SAAN									
18	2	2.5C Top	1.660 0.565	INDUCTOR SM0805	L1	470nH	AISC-0805-R47J-T									
19	2	2.2C Top	0.785 0.500	INDUCTOR SM0805	L2	47nH	CW201212-47NJ									
20	2	2.5B Top	1.425 0.825	INDUCTOR AIAC-4125	L15	538nH	AIAC-4125C-R538J-T									
21	2	2.5C Top	2.085 0.500	N/A Not Applicable AIAC-1812	L3	N/A	Do NOT Install									
22	2	2.5C Top	1.425 0.825	N/A Not Applicable SM1812	L15B	N/A	Do NOT Install									
23	2	2.3C Top	1.045 0.175	RES Jumper SM0805	R1	0	M32159B06TS6-5									
24	2	2.2C Top	0.165 1.018	RES Jumper SM0603-3	R3	0	M55342									
24	2	2.1B Bot	0.350 0.505	RES Jumper SM0603-3	R37	0	M55342									
25	2	2.2B Bot	0.140 1.025	RES THK-FLM SM0603	R2	10K	M55342K12B10E0TW									
25	2	2.2C Top	0.340 1.125	RES THK-FLM SM0603	R5	10K	M55342K12B10E0TW									
26	2	2.3C Bot	0.471 1.240	RES THK-FLM SM0603	R4	470	M55342K12B475DTW									
27	2	2.3C Top	0.845 0.130	N/A Not Applicable SM0805	R2A	N/A	Do NOT Install									

NON-POPULATED and NON-PARTS (do not fill in this sheet) **Department of
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