

Qualifier Transmitter Bill of Materials

1	1	101110-001	PCB TRANSMITTER QUALIFIER	1	EA	F
1	2	101109	ASSY DWG PCBA TRANSMITTER QUALIFIER	A/R	EA	S
1	3	S101109	SCHEMATIC PCBA TRANSMITTER QUALIFIER	A/R	EA	S
1	4	T101109	TP PCBA TRANSMITTER QUALIFIER	A/R	EA	S
1	10	EC-645	CAP SM 47UF 10V REEL	2	EA	F
			C6, C48			
1	11	EC-686	CAP SM TANT 1UF 16V (REEL)	14	EA	F
			C63, C89, C90, C92, C94, C95, C96, C97, C98, C121, C122, C134, C135, CX21			
1	12	EC-875	CAP TANT 10UF 16V A-PKG SM (REEL)	3	EA	F
			C88, C129, C130			
1	13	EC-661	CAP SM 33UF 16V TANT REEL	2	EA	F
			C2, C3			
1	15	EC-654	CAP SM 0.001UF NPO 50V REEL	7	EA	F
			C11, C13, C43, C53, C82, C102, C108			
1	16	EC-642	CAP SM 0.01UF X7R 50V 0805 (REEL)	6	EA	F
			C12, C51, C56, C71, C85, C107			
1	17	EC-778	CAP SM .033UF X7R 50V 5% 0805 REEL	2	EA	F
			C66, C67			
1	18	EC-804	CAP SM .1UF X7R 50V 5% 0805 (REEL)	17	EA	F
			C1, C4, C7, C40, C49, C84, C100, C103, C104, C106, C109, C114, C124, C126, C127, C133, CX16			
1	19	EC-679	CAP SM 100PF 50V NPO 0805 REEL	2	EA	F
			C83, C86			
1	20	EC-650	CAP SM 10PF NPO 50V 0805 REEL	2	EA	F
			C112, CX2			
1	21	EC-656	CAP SM 18PF COG 50V 0805 REEL	5	EA	F
			C70, C73, C74, C91, C93			
1	23	EC-676	CAP SM 330PF 50V NPO 0805	1	EA	F
			C38			
1	24	EC-729	CAP SM 390PF 50V NPO 0805 REEL	1	EA	F
			C68			
1	25	EC-730	CAP SM 470PF 50V NPO 0805 REEL	3	EA	F
			C58, C64, C72			
1	26	EC-740	CAP SM 68PF 0805 NPO 50V REEL	2	EA	F
			C28, C111			
1	27	EC-646	CAP SM 0.1UF X7R 50V 1206 REEL	8	EA	F
			C8, C46, C55, C57, C99, C110, CX5, CX9			
1	28	EC-665	CAP SM 0.33UF 50V 1206 REEL	1	EA	F
			C45			
1	29	EC-833	CAP SM 270PF NPO 50V 5% 1206 (REEL)	1	EA	F
			C27, C30			
1	30	EC-652	CAP SM 2.2UF 20V	1	EA	F
			CX11			
1	31	EC-657	CAP SM 12PF NPO 50V 0805 REEL	2	EA	F
			CX23, CX25			
1	32	EC-879	CAP SM TRIMMER 6-35PF	5	EA	F

			C116, C117, C118, C119, CX2A			
1	33	EC-715	CAP SM 39PF NPO 50V 5% 0805 C65	1	EA	F
1	34	EC-716	CAP SM 0.01 X7R 50V 10% 0603 REEL C16A, C39, C59A, CX1, CX6, CX7, CX8, CX12, CX17, CX26	10	EA	F
1	35	EC-724	CAP TANT 10UF 6.3V B-PKG SM CX14	1	EA	F
1	36	EC-734	CAP SM 5.6PF 50V NPO 0805 CX24	1	EA	F
1	37	EC-752	CAP SM 100PF NPO 50V 0603 REEL CX2B, CX13, CX15, CX22	4	EA	F
1	38	EC-757	CAP SM 0.1UF Y5V 25V 0603 REEL C101, C125, C132, CX3, CX4	5	EA	F
1	39	EC-761	CAP SM 390PF NPO 50V 0603 REEL C69	1	EA	F
1	40	EC-811	CAP SM TANT 2.2UF 20V SIZE A (REEL) C9	1	EA	F
1	41	EC-838	CAP SM 12PF NPO 200V 10% 1206 (REEL) C76, CX18, CX20	3	EA	F
1	42	EC-822	CAP SM 150PF NPO 200V 10% 1206 (REEL) C25, C80	2	EA	F
1	43	EC-823	CAP SM 220PF NPO 200V 10% 1206 (REEL) C18, C23, C113	3	EA	F
1	44	EC-818	CAP SM 33PF NPO 200V 10% 1206 (REEL) C115	1	EA	F
1	45	EC-819	CAP SM 47PF NPO 200V 10% 1206 (REEL) C81	1	EA	F
1	46	EC-821	CAP SM 68PF NPO 200V 10% 1206 (REEL) C79	1	EA	F
1	47	EC-841	CAP SM 1UF X7R 25V 10% 1206 (REEL) C41, C50, C54, C120, C140, C560	6	EA	F
1	49	EC-867	CAP SM 0.22UF X7R 16V 0805 (REEL) C52	1	EA	F
1	50	EC-869	CAP SM 15PF NPO 50V 1206 (REEL) C128	1	EA	F
1	51	EC-870	CAP SM 300PF NPO 200V 0805 (REEL) C15	1	EA	F
1	52	EC-868	CAP SM 330PF NPO 50V 1206 (REEL) C32	1	EA	F
1	53	EC-872	CAP SM 5.6PF NPO 50V 0805 (REEL) CX19	1	EA	F
1	54	EC-873	CAP SM 5600PF X7R 50V 0603 (REEL) C60	1	EA	F
1	55	EC-874	CAP SM 5600PF X7R 50V 0805 (REEL) C59, C61, C62	3	EA	F
1	56	EC-871	CAP SM 91PF NPO 50V 1206 (REEL) C21	1	EA	F

1	60	RW-853	RES SM 1/10W 5% 22 0805 REEL R44	1	EA	F
1	61	RX-531	RES SM 1/10W 5% 39 0805 (REEL) R16	1	EA	F
1	62	RW-849	RES SM 1/10W 5% 51 0805 REEL R97, R100	2	EA	F
1	63	RW-882	RES SM 1/10W 5% 82 0805 REEL R84	1	EA	F
1	64	RW-841	RES SM 1/10W 5% 200 0805 REEL R10	1	EA	F
1	65	RW-863	RES SM 1/10W 5% 300 R96, R101	2	EA	F
1	66	RW-876	RES SM 1/10W 5% 330 0805 REEL R59	1	EA	F
1	67	RW-869	RES SM 1/10W 5% 390 R25, R119	2	EA	F
1	68	RW-875	RES SM 1/10W 5% 430 0805 REEL R22, R54, R55, R56, R56A, R56B	6	EA	F
1	69	RW-767	RES SM 1/10W 5% 470 (REEL) R109, R110, R113, R114, R115	5	EA	F
1	70	RW-999	RES SM 1/10W 5% 560 0805 (REEL) R60, R61	2	EA	F
1	71	RW-889	RES SM 1/10W 5% 1.6K 0805 R63, R64	2	EA	F
1	72	RW-819	RES SM 1/10W 5% 100K 0805 REEL R42, R43	2	EA	F
1	73	RX-790	RES SM 1/16W 5% 5.6K 0603 (REEL) R1A	1	EA	F
1	74	RW-898	RES SM 1/10W 5% 10M R37	1	EA	F
1	75	RX-559	RES SM 1/10W 5% 220K 0805 (REEL) R34, R36, R39	3	EA	F
1	76	RW-850	RES SM 1/10W 5% 22K 0805 REEL R71	1	EA	F
1	77	RW-862	RES SM 1/10W 5% 3.3K 0805 REEL R13, R23, R85	3	EA	F
1	78	RX-569	RES SM 1/16W 5% 1K 0603 REEL R59A	1	EA	F
1	79	RW-768	RES SM 1/10W 5% 33K R18	1	EA	F
1	80	RW-859	RES SM 1/10W 5% 39K 0805 REEL R27, R90, R91	3	EA	F
1	81	RW-845	RES SM 1/10W 5% 47K 0805 REEL R24, R31, R35, R65, R67	5	EA	F
1	82	RW-825	RES SM 1/10W 5% 5.1K 0805 REEL R76, R120	2	EA	F
1	83	RW-979	RES SM 1/10W 5% 6.2K 0805 REEL R82, R83	2	EA	F
1	84	RW-824	RES SM 1/10W 5% 1.8K 0805 REEL	1	EA	F

1	85	RW-857	R21 RES SM 1/10W 1% 1K 0805 REEL	1	EA	F
1	86	RW-873	R69, R75 RES SM 1/10W 5% 100 0805 REEL	2	EA	F
1	87	RW-880	R121, R122 RES SM 0 JUMPER 0805 (REEL)	4	EA	F
1	88	RW-881	C123, R29, R38, R104 RES SM 1/10W 5% 1.2K 0805 REEL	1	EA	F
1	89	RW-899	R123 RES SM 1/10W 1% 11K 0805	2	EA	F
1	90	RW-903	R74, R77 RES SM 1/10W 1% 10K 0805 REEL	5	EA	F
1	91	RW-909	R92, R93, R94, R95, R106 RES SM 1/10W 5% 2K 0805 REEL	2	EA	F
1	92	RW-947	R50, R102 RES SM 1/10W 5% 56 0805 REEL	1	EA	F
1	93	RW-953	R124 RES SM 1/10W 1% 20.0K	2	EA	F
1	94	RW-954	R88, R89 RES SM 1/10W 1% 33.2K	1	EA	F
1	95	RW-995	R53 RES SM 1/10W 1% 100K 0805 REEL	1	EA	F
1	96	RX-501	R17 RES SM 1/10W 5% 51K 0805 REEL	1	EA	F
1	97	RX-532	R47 RES SM 1/10W 5% 2.7K 0805 (REEL)	2	EA	F
1	98	RX-541	R116, R117 RES SM 1/16W 5% 100 0603 REEL	1	EA	F
1	99	RX-542	RX17 RES SM 1/16W 5% 10 0603 REEL	3	EA	F
1	100	QIC-918	RX6, RX7A, RX14 IC SM GMSK ENCODER/DECODER TUBE	1	EA	F
1	101	QIC-729	U5 IC HEX INVERTER SM TUBE	2	EA	F
1	103	QIC-921	IC4, U2 IC MICROPROC 8051COMP 12K FLASH (TUBE)	1	EA	F
1	104	QIC-924	U11- bake as needed prior to assembly. IC FREQ SYNTH 1.1GHz DUAL MOD (TUBE)	1	EA	F
1	105	QIC-923	U4 IC SM VOLTAGE REG +5 AUTOMOTIVE (TUBE)	2	EA	F
1	106	QIC-990	U1, U3 IC DUAL RS232 TX/RX SM TUBE	2	EA	F
1	107	QIC-976	U12, U14 IC AMPLIFIER LOGARITHMIC	1	EA	F
1	108	QIC-886	U9 IC RF AMP DC-8GHz SM	1	EA	F
1	109	QIC-837	A1 IC NPROCESSOR RESET S0223 SM (REEL)	1	EA	F
			U13			

1	110	QIC-930	TRANSISTOR FLANGED NPN RF POWER Q1, Q20	2	EA	F
1	112	QIC-651	TRANSISTOR SM NPN REEL Q1A, Q13, Q14, Q18, Q19, Q59A, QX1, QX2	8	EA	F
1	113	QIC-652	TRANSISTOR SM PNP REEL Q9, Q10, Q11, Q12, Q15, Q16, Q17	7	EA	F
1	114	QIC-648	VOLTAGE REG LO NOISE AMP IC6 temperature sensor	1	EA	F
1	115	QIC-684	DIODE HIGH-SPEED SWITCHING SM REEL DX1, DX2	2	EA	F
1	116	QIC-867	IC QUAD OP AMP SM IC5	1	EA	F
1	117	QIC-933	IC OP AMP DUAL HI SPEED 7MHz (TUBE) U7, U10, U15- modify U15 per assy dwg.	3	EA	F
1	118	QIC-931	IC SM 10F8 DECODE/DEMUX 16SOIC (TUBE) U16	1	EA	F
1	120	RZ-590	DIODE SM VOLT SUP 15V 600W (REEL) D1	1	EA	F
1	121	RZ-595	DIODE ZENER 3.9V 350mW SOT-23 (REEL) DX3	1	EA	F
1	122	RZ-589	DIODE SM PIN SOT-23 (TUBE) D8, D9	2	EA	F
1	125	CO-638	IND COIL SM 1000NH REEL L10, L11	2	EA	F
1	126	CO-643	IND COIL SM AIR WOUND 3.5A 90NH (REEL) L4, L5, L8, L9	4	EA	F
1	127	CO-644	IND COIL SM AIR WOUND 3.5A 111NH (REEL) L6	1	EA	F
1	128	CO-618	COIL 10 UH SM L18, L20, LX9	3	EA	F
1	129	CO-635	IND CHIP 10NH SM REEL L17	1	EA	F
1	130	CO-645	IND COIL SM AIR WOUND 3.0A 246NH (REEL) L13	1	EA	F
1	131	CO-646	IND COIL SM AIR WOUND 3.0A 307NH (REEL) L14	1	EA	F
1	132	CO-652	IND SM CER CHIP 220NH (REEL) LX6	1	EA	F
1	133	CO-660	IND SM POWER 1.8UF 8532 (REEL) L2	1	EA	F
1	134	CO-661	IND SM 1000NH VARIABLE (REEL) L19	1	EA	F
1	135	CC-848	CONNECTOR BNC 50 OHM METAL BODY J1	1	EA	F
1	140	CC-859	CONN SHRD STRGHT DUAL ROW MALE 0.1x10 JP2	1	EA	F
1	141	RX-543	RES SM 1/16W 5% 330 0603 REEL RX1	1	EA	F
1	142	RX-545	RES SM 1/16W 5% 22K 0603 REEL	1	EA	F

1	143	RX-549	R19 RES SM 1/16W 5% 150 0603 REEL	2	EA	P
1	144	RX-550	RX2, RX3 RES SM 1/16W 5% 110 0603 REEL	1	EA	P
1	145	RX-555	RX21 RES SM 1/16W 5% 100K 0603 (REEL)	1	EA	P
1	146	RX-573	RX25 RES SM 1/16W 5% 3.9K 0603 (REEL)	2	EA	P
1	147	RX-582	R98, R99 RES SM 1/10W 5% 220 0805	2	EA	P
1	148	RX-597	R57, R58 RES SM 1/16W 5% 10K 0603 REEL	5	EA	P
1	149	RX-598	R26, RX12, RX16, RX19, RX24 RES SM 1/16W 5% 2.2K 0603 REEL	2	EA	P
1	150	RX-546	RX11, RX20 RES SM 1/16W 5% 47K 0603 REEL	2	EA	P
1	151	RX-661	RX28, RX29 RES SM 1/16W 5% 75 0603 (REEL)	1	EA	P
1	152	RX-711	R125 RES SM 1/4W 5% 180 1210 (REEL)	1	EA	P
1	153	RX-717	RX30 RES SM 1/10W 1% 1.1K 0805 (REEL)	1	EA	P
1	154	RX-718	R70 RES SM 1/10W 1% 1.3K 0805 (REEL)	1	EA	P
1	155	RX-719	R72 RES SM 1/10W 1% 2.61K 0805 (REEL)	1	EA	P
1	156	RX-720	R41 RES SM 1/10W 1% 3.57K 0805 (REEL)	1	EA	P
1	157	RX-721	R33 RES SM 1/10W 1% 39.2K 0805 (REEL)	2	EA	P
1	158	RX-722	R48, R52 RES SM 1/10W 1% 604 0805 (REEL)	1	EA	P
1	159	RX-723	R49 RES SM 1/10W 1% 9.53K 0805 (REEL)	1	EA	P
1	160	RX-724	R40 RES SM 1/16W 1% 232 0603 (REEL)	1	EA	P
1	161	RX-725	RX13 RES SM 1/8W 1% 5.9K 1206 (REEL)	1	EA	P
1	162	RX-726	R32 RES SM 1/10W 5% 12K 0805 (REEL)	4	EA	P
1	163	RX-727	R7, R79, R86, R87 RES SM 1/10W 5% 4.7 0805 (REEL)	2	EA	P
1	164	RX-728	R1, R3 RES SM 1/10W 5% 510K 0805 (REEL)	1	EA	P
1	165	RX-729	R30 RES SM 1/10W 5% 680 0805 (REEL)	2	EA	P
1	166	RX-730	R28, R66 RES SM 1/10W 5% 820K 0805 (REEL)	1	EA	P
			R15			

1	168	RX-732	RES SM 1/16W 5% 1M 0603 (REEL) RX18	1	EA	P
1	169	RX-733	RES SM 1/16W 5% 270K 0603 (REEL) RX22	1	EA	P
1	170	RX-734	RES SM 1/2W 5% .47 2010 (REEL) R80, R81, R118	1	EA	P
1	171	RX-709	RES SM 1/10W 5% 330K 0603 (REEL) RX26	1	EA	P
1	172	VR-560	POT SM 100K SINGLE TURN 2MM (REEL) RX4C, RX5C, RX15	3	EA	P
1	173	VR-558	POT SM 1K SINGLE TURN 2MM (REEL) R103	1	EA	P
1	174	VR-561	POT SM 500K SINGLE TURN 2MM (REEL) R107, R108	2	EA	P
1	175	VR-559	POT SM 50K SINGLE TURN 2MM (REEL) R45, R51	2	EA	P
1	176	LB-537	LED SUPER YELLOW SM 0603 (REEL) D4	1	EA	P
1	177	LB-503	LED RED RT/ANG D10, D11	2	EA	P
1	178	QIC-978	IC SM SHIFT REGISTER DUAL 4BIT (TUBE) IC1, IC2	2	EA	P
1	179	QIC-977	IC SM EXCLUSIVE OR/NOR QUAD (TUBE) IC3	1	EA	P
1	180	RZ-596	DIODE SM SILICON TUNING SOT-23 (REEL) D5	1	EA	P
1	181	QIC-678	IC DUAL OP AMP LOW PWR SM U6, U8	2	EA	P
1	182	CO-658	IND SM CHIP 33NH (REEL) LX3	1	EA	P
1	183	CO-657	IND SM CHIP 15NH (REEL) LX1, LX2, LX4, LX5	4	EA	P
1	184	CO-659	IND SM CER CHIP 56NH (REEL) LX7	1	EA	P
1	185	CR-586	XTAL 15.360MHZ VCXO VCX01	1	EA	P
1	186	CR-584	XTAL SM QUARTZ 4.9152MHZ CSM-7 (REEL) Y1	1	EA	P
1	187	CR-585	XTAL SM QUARTZ 24.0MHZ CSM-7 (REEL) Y2	1	EA	P
1	188	XF-518	COIL FORM TOROID LX8- Use with F/N 216 per dwg assy figure 2 & 3.	1	EA	P
1	189	LB-532	LED GREEN RT ANG D6	1	EA	P
1	190	LB-533	LED YELLOW RT ANG D7	1	EA	P
1	191	QIC-979	IC SM XISTOR NPN 3GHZ WIDE SOT-23 (REEL) Q8, Q21	2	EA	P
1	192	QIC-980	IC SM AMP DC-4000MHZ 86 PKG (REEL)	1	EA	P

1	193	QIC-981	IC8	IC SM HYBRID RCVR 433.92MHZ (REEL)	1	EA	F
1	195	MU-244	IC9	SHIELD 1x1.75x.4 COVER	1	EA	F
1	196	101248-002	B	HEAT SINK TRANSISTOR DOUBLE	1	EA	F
1	197	MS-735		Use with F/N 197 & F/N 198 to mount F/N 110.	9	EA	F
1	198	MS-925		SCREW 4-40x3/8 PHFILHD 18-8 SS			
				Use with F/N 198 to mount F/N 110, F/N 196, and F/N 217.			
1	199	RX-710		WASHER LOCK SPLIT #4 ST ZN	9	EA	F
1	200	EC-773		Use with F/N 197 to mount F/N 110, F/N 196, and F/N 217.			
1	201	RX-789		RES SM 1/10W 5% 470K 0603 (REEL)	1	EA	F
1	202	RX-537		RX27			
1	203	QIX-505		CAP SM 470PF X7R 50V 0603 REEL	2	EA	F
1	204	QIX-506		C56A, C71A			
1	205	SW-588		RES SM 1/16W 1.1M 5% 0603 (REEL)	1	EA	F
1	207	CC-899		RX23			
1	208	CC-900		RES SM 0 JUMPER 0603 REEL	1	EA	F
1	209	RX-788		RX24			
1	210	RX-747		IC SM DATA/CLOCK EXTRACTION (REEL)	1	EA	F
1	211	EC-898		U1000			
1	212	CO-671		IC SM HEXFET POWER MOSFET SO-8 (TUBE)	1	EA	F
1	213	CC-903		U1A			
1	214	MU-273		SWITCH RT ANGLE 16POS HEX ROTARY	1	EA	F
1	215	MS-871		SW2			
1	216	MS-758		CONN 9PIN D SUB RT ANGLE FILTERED	1	EA	F
1	217	101292-001	A	P1			
				CONN 2POS RT ANGLE PCB	1	EA	F
				P2			
				RES SM 1/16W 11K 5% 0603 (REEL)	1	EA	F
				R33A			
				RES SM 1/16W 5% 1.2K 0603 (REEL)	1	EA	F
				R1B			
				CAP SM 1.0UF Y5V 10V 0603 (REEL)	1	EA	F
				C86A			
				IND SM 206NH 2% AIR CORE (REEL)	1	EA	F
				LX10			
				CONN RECEPT FAST 16-14 AWG .250	2	EA	F
				Use with F/N 214.			
				WIRE HOOK UP 14AWG WHITE TEFLON INSUL	A/R	FT	F
				Use with F/N 213 and cut (2) lengths per drawing figure 1 & 2.			
				THERMAL COMPOUND	A/R	JAR	F
				Use with F/N 110 and F/N 114.			
				WIRE 30AWG	A/R	FT	F
				LX8- Use with F/N 188 per drawing winding & assembly figure 1 & 2.			
				CLAMP VOLTAGE REGULATOR	1	EA	F

Mount with F/N 197 and F/N 198.