

RESISTORS				
Value	Qty	Reference	Manufacturer	Part no.
4R7 SMT	1	R69 (1dB)	Generic	R12064R7
6R8	1	R51	Generic	
10R	2	R15 R16	Generic	
12R	2	R10 R13	Generic	
12R SMT	1	R69 (2dB)	Generic	
15R	2	R3 R5	Generic	
15R SMT	1	R60	Generic	R120615R
18R	9	R14 R16 R46 R55 R62 R63 R64 R19 R1	Generic	
20R	1	R51	Generic	
22R	2	R38, L29	Generic	
22R SMT	2	R34 R36	Generic	
24R	1	R1	Generic	
27R	3	R5 R10 R13	Generic	
33R	1	R1	Generic	
33R SMT	2	R35 R37	Generic	R120633R
36R	2	R4 R11	Generic	
39R	2	R49 R1	Generic	
43R	1	R1	Generic	
47R	3	R53 R2 R19	Generic	
50R 30W	1	R1	Bourns	PWR221T-30-50R0F
51R	8	R47 RA3 RC3 Test1 Test2 R18 R20 r4	Generic	
56R	3	R19 R20 R20	Generic	
62R	4	RA2 RC2 R18 R20	Generic	
68R	4	R63 RB1 R19 R20	Generic	
68R SMT	1	R61	Generic	R120668R
75R	1	R40	Generic	
82R	4	R8 R11 R3 R2	Generic	
91R	2	R18 R20	Generic	
100R	4	R6 R7 RA1 RC1	Generic	
120R	3	R56 R18 R20	Generic	
130R 0.75W SMT	3	R22 R29 R43	Panasonic	ERJU12F1300U
150R 0.5W	2		Generic	
180R	2	R19 R4	Generic	
220R	1	R45	Generic	
240R	2	RB2 R19	Generic	
270R	4	R44 R48 R52 R19	Generic	
300R	4	RP R6 R18 R20	Generic	
330R	2	R27 R19	Generic	
430R	1		Generic	
430R SMT	2	R70 R71 (2dB)	Generic	
560R	2	R23 R30	Generic	
620R	3	R2 R2 R3	Generic	
680R	1	R57	Generic	
750R	1	RB3	Generic	
820R	1	R31	Generic	
910	1	R19	Generic	
1k	6	R26 R32 R72 Test3 R6 R6	Generic	
1k SMT	2	R70 R71 (1dB)	Generic	R10261K
1k5	2	R24 R28	Generic	
1k8	1	R25	Generic	
2k2	1	R51	Generic	
2k7	2	R33 R50	Generic	
3k3	1	R58	Generic	
4k7	1	R59	Generic	
22k	3	R9 R17 R21	Generic	

PRESETS				
Value	Qty	Reference	Manufacturer	Part No.
50R preset	1	RV1	Suntan	3329-1-500LF
2K preset	1	For measuring power control maximum setting	Suntan	TSR-3362P-202R
5k	1	RV2	Suntan	Bourns 3296W-1-502
1k	1	Power control	Generic	

CAPACITORS				
Value	Qty	Reference	Manufacturer	Part No.
6p8	8	C26 C29 C37 C40 C59 C61 C66 C68	Suntan	TS170R2A068CSBNA0R
15pF	5	C17 C14 C70 C79 C85	Suntan	TS170R2A150JSBNA0R
39pF	8	C10 C12 C27 C30 C38 C41 C75 C77	Suntan	TS170R2A390JSBNA0R
68pF	10	C7 C14 C43 C45 C62 C69 C70 C79 C97 C99	Suntan	TS170R2A680JSBNA0R
82pF	2	C87 C88	Suntan	TS170R2A820JSBNA0R
100pF	1	C91	Suntan	TS170R2A101JSBNA0R
120pF	1	C98	Suntan	TS170R2A121JSBNA0R
150pF	2	C11 C76	Suntan	TS170R2A151JSBNA0R
180pF	4	C23 C46 C56 C74	Suntan	TS170R2A181JSBNA0R
330pF	1	C39	Suntan	TS170R2A391JSBNA0R
470pF	4	C3 C15 C65 C80	Suntan	TS170R2A471JSBNA0R
560pF	7	C3 C11 C15 C65 C80 C90 C76	TDK	C3216C0G2J561J085AA
10nF	32	C4 C5 C6 C8 C16 C18 C19 C20 C21 C22 C24 C28 C31 C32 C57 C73 C81 C83 C93 C94 C96 C101 C104 C115 C116 C118 C75 C105 C106 C107 C108 C109	Suntan	TS15001H103ZSBVA0R
10nF SMD	4	C34 C36 C42 C95	Samsung	C120610N50VY5V
100nF	5	C1 C2 C86 C92 Ctest	Suntan	TS15001E104MSBFBOR
22uF 25v	1	C17	Generic	
100uF 25v	1	C82	Generic	
5-30pF	10	C9 C13 C25 C44 C58 C71 C72 C78 C84 C89	Murata	TZ03R300BR169
4-20pF	2	C35 C63	Murata	TZ03T200ER169

INDUCTORS				
Value	Qty	Reference	Manufacturer	Part No.
29 to 39nH	0.05	L28	3t 22swg cw 3mm id length SAT	ECW0.71
100nH	0.15	L20	5t 22swg cw 4mm id	ECW0.71
250nH	1.00	L6 L9 L13 L17	9t 18swg cw 6mm id	ECW1.25
250nH	0.60	L7 L14	8t 18swg cw 6mm id	ECW1.25
105nH	0.12	L8	4t 22swg cw 6mm id 9mm long	ECW0.71
220nH	0.30	L21 L22	6.5t 22swg cw 6mm id	ECW0.71
515nH/540nH	1.20	L1 L2 L16 L18	11t 22swg cw 6mm id	ECW0.71
22uH	1	L3	FEC	CDRH125-22uH
25Ω Z at 42MHz/70MHz	1	L19	Fairrite	2673000101
1206 FB >400Ω Z at 28MHz	5	L4 L5 L15 L25 L26	Laird	HZ1206E152R
1:1 transformer (windings for above)	2	T1 T3	Fairrite	2861002402
	0.60		3+3t 34swg bifilar	ECW0.224

HARDWARE				
Value	Qty	Reference	Manufacturer	Part No.
Jumper pins	6	JP1 JP2 JP3 JP4 JP5 JP6		40w – break into 2w
Jumper link	6	ditto		
CONN_2_pcb_pin	5	P1 P2 P6 P7 P8	JYK	P2500-02
CONN_2_cable_shell	5	P1 P2 P6 P7 P8		
CONN_3_pcb_pin	2	P4 P5	JYK	P2500-03
CONN_3_cable_shell	2	P4 P5		
Pins for shells	16		JYK	T2500-02
CONN_5X2	1	P3	Generic	
SPST Switch	1	Temporary tx/rx switch	Generic	
PIN-1 (NB Rxx have 2 pins each)	70	Pad1 Pad2 Pad3 Pad4 Pad5 Pad6 Pad7 Pad8 Pad9 Pad10 Pad11 Pad12 Pad13 Pad14 Pad15 Pad16 Pad17 Pad18 Pad19 Pad20 Pad23 Pad24 Pad25 Pad26 Pad27 Pad28 Pad20 Pad37 Pin1 Pin2 Pin3 Pin4 Pin7 Pin8 Pin9 TP1 TP2 TP3 TP4 TP5 TP6 R1 R2 R3 R4 R5 R6 R10 R11 R13 R18 R19 R20		1mm (nominal) double-sided PCB pin
Solder wick	20mm		Generic	
1.6mm heat shrink	10mm	To insulate pin by R59	Generic	
Corner pillars top	4	20mm	Generic	
Corner pillars bottom	4	30mm	Generic	
Material for screens	1.00	0.2 x 20mm Copper Foil	Generic	

SEMICONDUCTORS				
Value	Qty	Reference	Manufacturer	Part No.
HSMP-3814	3	D1 D2 D3	Avago	
SB160	2	test transverter output & transceiver output	Diotec	SB160
BFR93	1	Q8	NXP	
2N7000	1	Q3	Fairchild	
IRFR9120NPBF	2	Q2 Q4	IRF	
ADE-1	1	MIX1	Mini-circuits	
78L05	1	U1	Generic	
LTC5507	1	U2	Linear Technology	
ERA-6	1	U3	Mini-circuits	ERA-6SM+
ERA-5	2	U4 U5	Mini-circuits	ERA-5SM+
78L08	1	U6	Generic	

CABLE & WIRE				
Value	Qty	Reference	Manufacturer	Part No.
Brown hook-up wire	1	7/0.6 stranded	Generic	
Red hook-up wire	2	7/0.6 stranded	Generic	
Black hook-up wire	2	7/0.6 stranded	Generic	
RG178 Coax	1		Generic	

CRYSTALS				
Value	Qty	Reference	Manufacturer	Part No.
42MHz crystal oscillator				
42MHz crystal	1	X1	Euroquartz	
49MHz crystal oscillator				
49MHz crystal	1	X1	Euroquartz	

STANDARD RECEIVER				
Value	Qty	Reference	Manufacturer	Part No.
22R SMT	1	R42	Generic	
15k	1	R40	Generic	
47k	1	R39	Generic	
27pF	1	C47	Suntan	TS170R2A270JSBNA0R
120pF	1	C48	Suntan	TS170R2A121JSBNA0R
10nF	2	C53 C54	Suntan	TS15001H103ZSBVA0R
5-30pF	2	C49 C55	Murata	TZ03R300BR169
5:1 transformer	1	T2	10t pri, 2t sec	Micrometals T37-10
(windings for above)	0.33		27swg 0.25m pri, 0.08m sec	ECW0.4
>400Ω Z at 70MHz	1	L12	Laird	HZ1206E152R
BF998	1	Q6		
ADE-1	1	MIX2		
110nH	0.15	L10	7.5t 22swg cw 4mm id	ECW0.71
Wire link	4	R66 C103 C102 U8(pins 1-3)		

HIGH DYNAMIC RANGE RECEIVER				
Value	Qty	Reference	Manufacturer	Part No.
100R	1	R41	Generic	
130R 0.75W SMT	1	R68	Panasonic	ERJU12F1300U
27pF	1	C47	Suntan	TS170R2A270JSBNA0R
47pF	2	C110 C117	Suntan	TS170R2A470JSBNA0R
120pF	1	C48	Suntan	TS170R2A121JSBNA0R
180pF	1	C112	Suntan	TS170R2A181JSBNA0R
5-30pF	1	C49	Murata	TZ03R300BR169
6-50pF	1	C111	Alps	
10nF	6	C52 C114 C100 C102 C103 C113	Suntan	TS15001H103ZSBVA0R
100nF	2	C50 C51	Suntan	TS15001E104MSBFBOR
50nH	0.15	L11	3 1/2 turns, 18swg, 5.5mm core dia., 10mm long	ECW1.25
110nH	0.15	L10	10.5t 22swg cw 4mm id	ECW0.71
400Ω Z at 70MHz	2	L24 L27	Laird	HZ1206E152R
ADE-1H	1	MIX1	Minicircuits	ADE-1H+
ERA-6	1	U8	Minicircuits	ERA-6SM+
SPF5043	1	U10	RF Micro Devices	SPF5043ZS
78L05	1	U9	Generic	
Wire link	10	R66		