

mixer_and_reference_oscillator

#	Reference	Description	Value	Ordering #
1	U1	Binary counter with built-in oscillator	4060	CD4060
9	C19 C12 C10 C5 C4 C3 C1 C23 C20	Capacitor	100n	100n/50V
2	C7 C22	Capacitor	100p	100p/50V
1	C16	Capacitor	10p	10p/50V
3	C2 C6 C11	Capacitor	1n	1n/50V
1	C9	Capacitor	1U	1U/50V
1	C17	Capacitor	20p	20p/50V
2	C13 C15	Capacitor	2n2	2n2/50V
2	J1 J2	Coaxial connector SMA	Conn_Coaxial	do not populate
1	Y1	Crystal	4.096HMz	4.096MHz
4	C8 C14 C18 C24	Electrolitic capacitor	220U	220U/25V
1	C21	Electrolitic capacitor	22U	22U/25V
1	L1	Inductor	100U	100UH
4	H1 H2 H3 H4	Mounting hole	3mm	not a placable part
1	R18	Resistor	100k	100k 1% 0.25W
3	R6 R12 R19	Resistor	100R	100R 1% 0.25W
1	R9	Resistor	10R	10R 1% 0.25W
1	R10	Resistor	120R	120R 1% 0.25W
1	R22	Resistor	15M	15M 1% 0.25W
1	R7	Resistor	22k	22k 1% 0.25W
1	R8	Resistor	2k2	2k2 1% 0.25W
2	R1 R11	Resistor	39R	39R 1% 0.25W
3	R4 R15 R17	Resistor	4k7	4k7 1% 0.25W
5	R2 R5 R13 R16 R21	Resistor	560R	560R 1% 0.25W
3	R3 R14 R20	Resistor	5k6	5k6 1% 0.25W
1	J3 J4	Single row connector	-	2 pin header 2.54mm pitch
5	Q1 Q2 Q3 Q4 Q5	Transistor	BC547	BC547