

Quartzmite V2.1 BoM

Ref	Description	No Reqd
C1, C2, C3, C4	1nF 0805	4
C5, C9, C10, C13, C18, C23, C25	10nF 50v 0805	7
C29	330nF 0805	1
C6, C12, C15, C16, C20, C26, C27, C31	100nF 16v 0805	8
C7	Band 0805	1
C8	Band 0805	1
C11, C19	22nF 0805	2
C14	100pF 0805	1
C17	47uF 16v 1210	1
C21	Band 0805	1
C22	Band 0805	1
C24	Band 0805	1
C28, C30	1uF 0805	2
C32, C33	220nF 0805	2
C300	Band 0805	1
C301	Band 0805	1
C310	Band 0805	1
C311	Band 0805	1
C320	Band 0805	1
C321	Band 0805	1
C330	Band 0805	1
C331	Band 0805	1
C340	Band 0805	1
C341	Band 0805	1
D1, D2, D3, D4	1N4148 SOD123	4
D5	BB510 SOT23	1
L1, L2	T30 Core	2
Q1, Q2	MMBT4401 SOT23	2
Q3	MMBF170	1
Q4	BCP56	1
R1, R2	4k7 0805	2
R3, R4, R13	22K 0805	3
R5	10K 0805	1
R6, R7, R10	8k2 0805	3
R8, R9, R21, R22	470K 0805	4
R11	100K 0805	1
R12, R16	47K 0805	2
R14	1K 0805	1
R15, R17, R18	100R 0805	3
R19	1R3 0805	1
R20	1M 0805	1
RV1	10k Pot	1
RV2	1M Pot	1
T1	FT37-43	1
U1	SA612 soic-8	1
U2	MC1458	1
U3	PIC16F628A	1
U4	78L05 SOT89	1
U5	SN74LVC1G3157	1
U6	MCP4911	1
U8	LM358	1
Y1, Y2	Band Crystal	2
PCB	board	1
Magnet Wire	1m 27swg	1

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Band Specific Parts

V1 Part	80m	40m	30m	20m
C7	47pF	47pF	33pF	47pF
C8	33pF	47pF	33pF	47pF
C21	68pF	68pF	47pF	39pF
C22	68pF	68pF	47pF	39pF
C24	47pF	47pF	33pF	39pF
C300	82pF	47pF	15pF	22pF
C301	Not Used	Not Used	15pF	Not Used
C310	240pF	120pF	47pF	56pF
C311	Not Used	Not Used	39pF	Not Used
C320	560pF	330pF	220pF	150pF
C321	56pF	Not Used	Not Used	Not Used
C330	1200pF	560pF	270pF	270pF
C331	Not Used	56pF	150pF	Not Used
C340	470pF	240pF	180pF	120pF
C341	Not Used	Not Used	Not Used	Not Used
L1	T30-2 2.45uH	T30-2 1.3uH	T30-2 894nH	T30-6 647nH
L1 winding	23 turns 30swg	17 turns 27swg	14 turns 27swg	13 turns 27swg
L2	T30-2 2.00uH	T30-2 1.05uH	T30-6 720nH	T30-6 560nH
L2 winding	21 turns 30swg	15 turns 27swg	14 turns 27swg	12 turns 27swg
Transformer T1 on FT37-43 core				
Primary 9 turns 27 swg				
Secondary 13 turns 27 swg				
V2 Total wire	104cms	90cms	84cms	81cms