

Quartzmite V1.0 BoM

Ref	Description	No Req'd
C1, C2, C3	1nF 0805	3
C4, C9, C10, C13, C23, C25	10nF 0805	6
C5	330nF 0805	1
C6, C12, C26, C27, C28	100nF 0805	5
C7	Band 0805	1
C8	Band 0805	1
C11, C18, C19	22nF 0805	3
C14	100pF 0805	1
C15, C29	47uF 16v 1210	2
C16	3.3uF 0805	1
C17, C20	47uF 10v 0805	2
C21	Band 0805	1
C22	Band 0805	1
C24	Band 0805	1
C30	Band 0805	1
C301	Band 0805	1
C31	Band 0805	1
C311	Band 0805	1
C32	Band 0805	1
C321	Band 0805	1
C33	Band 0805	1
C331	Band 0805	1
C34	Band 0805	1
C341	Band 0805	1
D1, D2, D3, D6	1N4148 SOD123	4
D4	Band SOD123	1
D5	BB510 SOT23	1
D7	Band SOD123	1
L1	T30 Core	1
L2	T30 Core	1
Q1, Q2, Q3	2N7002 SOT23	3
Q4, Q5	MMBT4401 SOT23	2
Q6	PZT2222A	1
R1, R2, R10	4k7 0805	3
R3	10R 0805	1
R4	1M 0.25W t/h	1
R5, R8, R11	100K 0805	3
R6, R7	8k2 0805	2
R9, R13	22K 0805	2
R12, R16	47K 0805	2
R14	1K 0805	1
R15, R17, R18	100R 0805	3
R19	3R 0805	1
R20	1M 0805	1
RV1	10k Pot	1
T1	FT23-43	1
U1	SA612 soic-8	1
U2	MC1458	1
U3	PIC12F508	1
U4	78L05 SOT89	1
Y1, Y2	Band Crystal	2
PCB	board	1
Magnet Wire	27swg 1m	1

Band Specific Parts

Part	80m	40m	30m	20m
C7	47pF	47pF	33pF	47pF
C8	33pF	47pF	33pF	47pF
C21, C22	68pF	68pF	47pF	39pF
C24	47pF	47pF	33pF	39pF
C30	82pF	47pF	15pF	22pF
C301	Not Used	Not Used	15pF	Not Used
C31	240pF	120pF	47pF	56pF
C311	Not Used	Not Used	47pF	Not Used
C32	560pF	330pF	220pF	150pF
C321	56pF	Not Used	Not Used	Not Used
C33	1200pF	560pF	270pF	270pF
C331	Not Used	56pF	150pF	Not Used
C34	470pF	240pF	180pF	120pF
C341	Not Used	Not Used	Not Used	Not Used
D4	8.2v	8.2v	8.2v	8.2v
D7	4.7v	4.7v	4.7v	4.7v
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 FT23-43 core
 Primary 8 turns 27 swg
 Secondary 5 turns 27 swg