

Parts List of the Xono Board Rev. 2

Last Change : 2009 / 06 / 15

Part No.	Type / Valua	Description	Supplier	Order No.
Q1 ⁴⁾ , Q2 ⁴⁾ , Q4, Q14, Q16, Q17, Q24	BC550C	nnp Small Signal Bipolar Transistor	RE	BC 550C
Q6	BC560C	pnp Small Signal Bipolar Transistor	RE	BC 560C
Q3, Q18	IRF9610	p-Channel Medium Power MOSFET	SE	850318
Q7, Q8, Q19	IRF610	n-Channel Medium Power MOSFET	SE	850317
Q20, Q21, Q21a	IRFD9110	p-Channel MOSFET	SE	852191
Q10 ... Q13 ¹⁾ , Q15	2SK170GR	n-Channel Small Signal JFET	BA	2SK170GR
Q5 ⁵⁾	2SK389BL	Dual n-Channel Small Signal JFET	SE	851859
IC100, IC3	LM317	Voltage Regulator, TO-220	RE	LM 317-220
IC101	LM337	Voltage Regulator, TO-220	RE	LM 337-220
D100, D101	1N4148	Diode	RE	1N 4148
D56	BZY91	9,1V / 0,5W Zener Diode	RE	ZF 9,1
D5	LED	LED red, 3mm	RE	LED 3MM RT
R39	10 Ω	Dale CMF-55-143, 0.5%, TK50	SE	852406
R45 ... R48	22,1 Ω	Dale CMF-55-143, 0.5%, TK50	SE	852456
R38	24,9 Ω	Dale CMF-55-143, 0.5%, TK50	SE	852508

R27, R28	33,2Ω	Dale CMF-55-143, 0.5%, TK50	SE	852509
R37, R64, R65	47,5Ω	Dale CMF-55-143, 0.5%, TK50	SE	852414
R50	56,2Ω	Dale CMF-55-143, 0.1%, TK25	SE	852430
R7, R21, R36	100Ω	Dale CMF-55-143, 0.1%, TK25	SE	852400
R28a, R53, R82	150Ω	Dale CMF-55-143, 0.1%, TK25	SE	852502
R1, R12, R12a, R22, R24, R26, R52, R54, R55, R57, R60, R61, R61a, R69	221Ω	Dale CMF-55-143, 0.1%, TK25	SE	852409
R35	249Ω	Dale CMF-55-143, 0.1%, TK25	SE	852503
R100, R101	270Ω	1% Metal Film Resistor 0.4W	RE	Metall 270
R13	332Ω	Dale CMF-55-143, 0.1%, TK25	SE	852410
R110	470Ω	1% Metal Film Resistor 0.4W	RE	Metall 470
R34, R67	475Ω	Dale CMF-55-143, 0.1%, TK25	SE	852507
R59 2)	475Ω	Dale CMF-55-143, 0.1%, TK25	SE	852507
	1kΩ	Dale CMF-55-143, 0.1%, TK25		852417
R40, R66	499Ω	Dale CMF-55-143, 0.1%, TK25	SE	852399

R33	825 Ω	Dale CMF-55-143, 0.1%, TK25	SE	852463
R32, R79, R80, R81	1k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852417
R75	1,5k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852411
R25P	2,21k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852412
R102, R103	2,7k Ω	1% Metal Film Resistor 0.4W	RE	Metall 2,70K
R42	3,32k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852486
R41	4,02k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852505
R4 2)	4,02k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852505
	10k Ω	Dale CMF-55-143, 0.1%, TK25		852395
R11, R51, R68	4,75k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852420
R5	6,81k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852478
R8	7,32k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852506
R3	8,25k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852421
R6, R16 ... R18, R76	10k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852395
R23, R62, R63	22,1k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852494

R20, R31	47,5k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852391
R9	88,7k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852423
R14, R15, R49	100k Ω	Dale CMF-55-143, 0.1%, TK25	SE	852413
R59a ²⁾	1k Ω	Variable Resistor	RE	64Y-1,0K
R25	5k Ω	Variable Resistor	RE	64Y-5,0K
R4a ²⁾ , P100, P101	10k Ω	Variable Resistor	RE	64Y-10K
C11	10pF / 100V	Glimmer Capacitor, RM2	RE	CY 22-2 10P
C3, C13, C29	100pF / 100V	Glimmer Capacitor, RM2	RE	CY 22-2 100P
C14	220pF / 100V	Glimmer Capacitor, RM2	RE	CY 22-2 220P
C15	330pF / 100V	Glimmer Capacitor, RM3	RE	CY 22-3 330P
Cu	680pF / 100V	Glimmer Capacitor, RM3	RE	CY 22-3 680P
C39	1nF / 630V	Wima MKP4 Capacitor, RM3	CE	450443 - 62
C5	2,7nF / 100V	Glimmer Capacitor, RM3	RE	CY 22-5 2,7N
C4	10nF / 100V	Glimmer Capacitor, RM3	RE	CY 22-5 10N
C8	10nF / 1000V	Wima MKP4 Capacitor, RM3	CE	450523 - 62
C6	33nF / 630V	Wima MKP4 Capacitor, RM3	CE	450337 - 62
C2, CB3, CB4, C10b	47nF / 630V	Wima MKP4 Capacitor, RM3	CE	450350 - 62
C7a, C9a, C38a	100nF / 100V	Vishay MKP1837, RM2	SE	852638
C34A, C35A, C102, C103, C106, C107	100nF / 100V	Ceramic Capacitor, RM2	RE	X7R-5 100n

C28	4,7 μ F / 35V	Electrolytic Capacitor, RM1	RE	RAD 4,7/35
C7, C9, C38 ³⁾	10 μ F	Wima MKP4 Capacitor, RM15, 19mm \times 41,5mm	CE	450535 - 62
C104, C105	10 μ F / 35V	Electrolytic Capacitor, RM1	RE	RAD 10/35
C10, C19, C27, C37	220 μ F / 35V	Panasonic FC, RM2	RE	RAD FC 220/35
C1	1000 μ F / 35V	Panasonic FC, RM2	RE	RAD FC 1.000/35
C100, C101, C112, C113	2200 μ F / 50V	Electrolytic Capacitor, RM3	RE	RAD 105 2.200/50
C34, C35, C108 ... C111	4700 μ F / 35V	Electrolytic Capacitor, RM3	RE	RAD 105 4.700/35
S1, S2		8 Pole DIP-Switch	RE	NT 08
J1, J2		Connector 2 Pole, RM2	RE	AKL 101-02
LK1, J4		Connector 3 Pole, RM2	RE	AKL 101-03
JP1 ... JP5		Jumper 2 Pole, RM2	RE	SL 1X36G 2,54
JP1 ... JP5		Jumper	RE	JUMPER 2,54GL RT
J10		Connector, RM1	RE	PS 25/2G WS
KK1, KK2		Heat Sink	RE	V PR32/38,1

- 1) Q10 ... Q13 must be matched
- 2) by the use of R4a and R59a the resistors R4 and R59 must have a bigger value
- 3) max. room for the capacitor: 63mm \times 35mm
- 4) Q1 and Q2 must be matched
- 5) the not used middle pin is cutted

Supplier please see [Legende](#)

