

Analog Metropolis 4075 Parts List

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PCB Components Designator	Mouser Part Number	Description	Value	Qty	Price	Total	Comments
R20,R22,R26,R28,R32,R34,R38,R40	271-220-RC	Xicon 1/4W 1% Metal Film	220R 1%	8	\$0.09	\$0.72	
R46	271-4.7K-RC	Xicon 1/4W 1% Metal Film	1K 1%	1	\$0.09	\$0.09	
R21,R27,R33,R39	271-2.2K-RC	Xicon 1/4W 1% Metal Film	2.2K 1%	4	\$0.09	\$0.36	
R18,R19	271-3.3K-RC	Xicon 1/4W 1% Metal Film	3.3K 1%	2	\$0.09	\$0.18	
R46	271-4.7K-RC	Xicon 1/4W 1% Metal Film	4.7K 1%	1	\$0.09	\$0.09	
R47,R48,R49	271-10K-RC	Xicon 1/4W 1% Metal Film	10K 1%	3	\$0.09	\$0.27	
R23,R24,R29,R30,R35,R36,R41	271-12.1K-RC	Xicon 1/4W 1% Metal Film	12.1K 1%	7	\$0.09	\$0.63	
R43,R45	271-15K-RC	Xicon 1/4W 1% Metal Film	15K 1%	2	\$0.09	\$0.18	
R14	271-22K-RC	Xicon 1/4W 1% Metal Film	22K 1%	1	\$0.09	\$0.09	
R16	271-39K-RC	Xicon 1/4W 1% Metal Film	39K 1%	1	\$0.09	\$0.09	
R17	271-56K-RC	Xicon 1/4W 1% Metal Film	56K 1%	1	\$0.09	\$0.09	
R12	271-91K-RC	Xicon 1/4W 1% Metal Film	91K 1%	1	\$0.09	\$0.09	
R4,R5,R7,R8	271-100K-RC	Xicon 1/4W 1% Metal Film	100K 1%	4	\$0.09	\$0.36	
R11	271-150K-RC	Xicon 1/4W 1% Metal Film	150K 1%	1	\$0.09	\$0.09	
R13	271-196K-RC	Xicon 1/4W 1% Metal Film	196K 1%	1	\$0.09	\$0.09	
R1,R2,R3	271-360K-RC	Xicon 1/4W 1% Metal Film	360K 1%	3	\$0.09	\$0.27	Used 200K for better balance between signal and resonance
R9,R15	271-470K-RC	Xicon 1/4W 1% Metal Film	470K 1%	2	\$0.09	\$0.18	
R10	271-1.5M-RC	Xicon 1/4W 1% Metal Film	1.5M 1%	1	\$0.09	\$0.09	
R25,R31,R37,R42,R44	291-22M-RC	Xicon 1/4W 1% Metal Film	22M 5%	5	\$0.09	\$0.45	Used 5%
PTC1	271-1.87K-RC	Xicon 1/4W 1% Metal Film	1.87K 1%	1	\$0.09	\$0.09	Used in place of 3500 PPM Tempco
REJECT	72-T93YA-100	Vishay/Sfernice Multi-Turn Trimmer	3/8" SQ V/ADJ 100R	1	\$1.20	\$1.20	
V/OCT	72-T93YA-20K	Vishay/Sfernice Multi-Turn Trimmer	3/8" SQ V/ADJ 20K	1	\$1.20	\$1.20	
TRIM	72-T93YA-100K	Vishay/Sfernice Multi-Turn Trimmer	3/8" SQ V/ADJ 100K	1	\$1.20	\$1.20	
IC1	595-OPA177GP	TI Precision Op Amp	OPA177GP	1	\$1.90	\$1.90	
IC2	595-LM3900N	TI Quad Norton Amp	LM3900N	1	\$0.96	\$0.96	
D1	512-1N914	Fairchild 100V 4.0ns Diode	1N914	1	\$0.05	\$0.05	
T16	512-2N3904TA	Fairchild Small Signal Transistor NPN	2N3904	1	\$0.06	\$0.06	
T1,T2,T13,T14,T15	512-2N3906TA	Fairchild Small Signal Transistor PNP	2N3906	5	\$0.06	\$0.30	
T3,T4,T5,T6,T7,T8,T9,T10,T11,T12	512-2N5087TA	Fairchild Small Signal Transistor PNP	2N5087	20	\$0.06	\$1.20	Purchased 20 to hand match Vbe: 6@620mV, 2@619mV, 2@618mV
C13,C14,C15,C16	140-LLRL35V10-RC	Xicon Low-Leakage Radial	35V 10uF 20%	4	\$0.22	\$0.88	
C8,C9	140-LLRL35V22-RC	Xicon Low-Leakage Radial	35V 22uF 20%	2	\$0.24	\$0.48	
C1,C7,C18,C19	147-72-104-RC	Xicon Axial Ceramic	50V 0.1uF Z5U 20%	4		\$0.00	
C2,C17	505-MKP20.047/100/5	Wima Polypropylene Film	100V .047uF 5%	2	\$0.49	\$0.98	
C5,C6,C11,C12	505-FKP24700/63/2.5	Wima Polypropylene Film	63V 4700pF 2.5%	4	\$0.48	\$1.92	
C3,C4	505-MKP20.01/100/5	Wima Polypropylene Film	100V .01uF 5%	2	\$0.42	\$0.84	
C10	505-FKP2220/100/2.5	Wima Polypropylene Film	100V 220pF 2.5%	1	\$0.38	\$0.38	
POWER	571-6404454	4 Pin MTA .156" Connector	FRCTN LK HDR SQR POST TIN	1	\$0.16	\$0.16	
L1,L2	623-2743002112LF	Fair-Rite EMI Shield Beads on Leads	Z=133OHM @ 100MHz	2	\$0.12	\$0.24	Long ferrite beads
					Total	\$18.45	

Panel Components Designator

IN1,IN2,IN3,1V/OCT,FM,OUT	502-112AX	Switchcraft Phone Jacks	2C ENCLOSED 1/4"	6	\$1.89	\$11.34	1U MOTM style panel
FREQ, RES, FM	594-149-7104	Vishay/Spectrol Panel Potentiometer	1/2"SQ1/4"S 100KOHMS	3	\$7.88	\$23.64	1U MOTM style panel
FREQ, RES, FM	506-PKES90B1/4	Alcoswitch	MOTM style knobs	3	\$2.80	\$8.40	1U MOTM style panel

Total \$43.38