

SIDECHAIN			
Reference	Value	Footprint	Qty
C1,C2,C3,C4,C5,C6,C8,C9	22n	Capacitor_THT:C_Disc_D7.0mm_W2.5mm_P5.00mm	8
C7,C17	100u/50V	Capacitor_THT:CP_Radial_D10.0mm_P2.50mm_P5.00mm	2
C10,C11	1000u/25V	Capacitor_THT:CP_Radial_D10.0mm_P2.50mm_P5.00mm	2
C12,C13,C14,C15	1u	Capacitor_THT:C_Disc_D7.0mm_W2.5mm_P5.00mm	4
C16	1000u/50V	Capacitor_THT:CP_Radial_D10.0mm_P2.50mm_P5.00mm	1
D1,D2,D3,D4,D5,D7,D9,D11,D13,D15,D17,D19,D21,D23,D25	1N4148		15
D6,D8,D10,D12,D14,D16,D18,D20,D22,D24,D26,D27	LED	LED_D5.0mm	12
Q1,Q2,Q3,Q4,Q7,Q8,Q9,Q10,Q13,Q14,Q15,Q16,Q17,Q18,Q19,Q20,Q21,Q22,Q23,Q24	BC546C	TO-92	20
Q5,Q6	BC556C	TO-92	2
Q11,Q12	BD139	TO-126-3	2
R1,R2	300	1/2W	2
R3,R14	82	1/2W	2
R4,R15	120	1/2W	2
R5,R16	150	1/2W	2
R6,R17	200	1/2W	2
R7,R18	290	1/2W	2
R8,R19	420	1/2W	2
R9,R20	600	1/2W	2
R10,R21,R65,R68,R69,R70,R71,R72,R73,R74,R75,R76,R78,R81,R82,R83,R84,R85,R86,R87,R88,R89,R90,R103,R116,R117,R118,R119,R120,R121,R146,R147	1k	1/2W	32
R11,R22	2k	1/2W	2
R12,R23	4.99k	1/2W	2
R13,R24,	33k	1/2W	2
R25,R26,R27,R28,R174,R175	100k	1/2W	6
R29,R30,R31,R34,R35,R36,R37,R50,R61,R132,R133,R134,R135,R136,R137,R138,R139,R140,R141,R142,R143,R154,R155,R160,R161,R162,R163,R166,R167,R172,R173,R178,R179,R184,R185	10k	1/2W	37
R32,R33	1.5k	1/2W	2
R43,R54,R124,R125,R126,R127,R158,R159,R164,R165,R170,R171,R176,R177,R182,R183,R188,R189	4.7k	1/2W	20
R40,R51	30k	1/2W	2
R41,R52	3.8k	1/2W	2
R42,R53	4.2k	1/2W	2
R44,R55	5.4k	1/2W	2
R45,R56	6.1k	1/2W	2
R46,R57	6.8k	1/2W	2
R47,R58	7.7k	1/2W	2
R48,R59	8.6k	1/2W	2
R49,R60	9.6k	1/2W	2
R62,R63,R144,R145,R186,R187	1M	1/2W	6
R64,R66,R67,R77,R79,R80	470	1/2W	6
R91,R92,R93,R94,R95,R96,R97,R98,R99,R100,R101,R104,R105,R106,R107,R108,R109,R110,R111,R112,R113,R114	22k	1/2W	22
R102,R115	220k	1/2W	2
R122,R123,R128,R130	2.2k	1/2W	4
R129,R131	100	1/2W	2
R148,R149	33	1/2W	2
R150,R151	11k	1/2W	2
R152,R153	10	1/2W	2
R156,R157,R180,R181	omitted	1/2W	4
R168,R169	27k	1/2W	2
R190,R191	1	1/2W	2
R38,R39	3.3k	1/2W	2
RV1,RV2,RV3	1k	Bourns 3296W	3
RV4,RV5	10k	Bourns 3296W	2
SW1,SW2,SW6,SW8,SW7,SW9,SW10,SW11,SW12,SW13	Rotary	Lorlin CK1512	10
SW3,SW4,SW5,SW14,SW15,SW16	DPDT	100DP1T1B1M2QEH	6

R144 & R145 are optional. Leave them out if you don't want dual time constant in fast position.

Increase value of R150 & R151 if gain reduction LEDs light up too early.