

QUAD LOPASS GATE MODEL 292C**BILL OF MATERIALS REV 2.0****SEMICONDUCTORS**

| VALUE | DESIGNATOR | QTY | DESCRIPTION | MOUSER PART# |
|--------|--------------------|-----|-------------|-----------------|
| TL074 | IC1, IC3, IC5, IC7 | 4 | | 595-TL074CN |
| TL071 | IC9 | 1 | | 595-TL071CP |
| DG202 | IC2, IC4, IC6, IC8 | 4 | | 781-DG202BDJ-E3 |
| 1N5228 | Z1, Z2, Z3, Z4 | 4 | | 512-1N5228B |

CAPACITORS

| VALUE | DESIGNATOR | QTY | DESCRIPTION | MOUSER PART# |
|--------|---|-----|---------------------|--------------------|
| 15uF | C39, C40 | 2 | ELECTROLYTIC 2MM LS | 647-UKL1V150MDDANA |
| 1uF | C7, C16, C25, C34 | 4 | FILM 5MM LS | 80-R82DC4100AA60J |
| 4.7nF | C5, C14, C23, C32 | 4 | FILM 5MM LS | 871-B32529C1472J |
| 0.1uF | F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20 | 20 | CERAMIC 5MM LS | 581-SA105E104M |
| 2000pF | C3, C12, C21, C30 | 4 | CERAMIC 5MM LS | 581-SA101C222K |
| 1000pF | C4, C13, C22, C31 | 4 | CERAMIC 5MM LS | 581-SA105A102JAR |
| 220pF | C6, C9, C15, C18, C24, C27, C33, C36 | 8 | CERAMIC 5MM LS | 581-SA101A221JAR |
| 100pF | C2, C8, C11, C17, C20, C26, C29, C35 | 8 | CERAMIC 5MM LS | 581-SA102A101J |
| 22pF | C1, C10, C19, C28 | 4 | CERAMIC 5MM LS | 581-SA102A220J |

RESISTORS

| VALUE | DESIGNATOR | QTY | DESCRIPTION | MOUSER PART# |
|----------------|---|-----|-------------|---|
| 150K | R1, R24, R47, R70 | 4 | 1% 1/4W | 271-150K-RC |
| 100R | R2, R25, R48, R71 | 4 | 1% 1/4W | 271-100-RC |
| 470R | R3, R26, R49, R72 | 4 | 1% 1/4W | 271-470-RC |
| 4M7 | R4, R27, R50, R73 | 4 | 5% 1/4W | 291-4.7M-RC |
| 470K | R5, R28, R51, R74 | 4 | 1% 1/4W | 271-470K-RC |
| 100K | R6, R12, R13, R29, R35, R36, R52, R58, R59, R75, R81, R82 | 12 | 1% 1/4W | 271-100K-RC |
| 10K | R7, R8, R14, R16, R21, R30, R31, R37, R39, R44, R53, R54, R60, R62, R67, R76, R77, R83, R85, R90, R99 | 21 | 1% 1/4W | 271-10K-RC |
| 33K | R9, R32, R55, R78, R94, R95, R97, R100 | 8 | 1% 1/4W | 271-33K-RC |
| 4K7 | R10, R22, R23, R33, R45, R46, R56, R68, R69, R79, R91, R92, R93 | 13 | 1% 1/4W | 271-4.7K-RC |
| 1K | R11, R20, R34, R43, R57, R66, R80, R89, R96 | 9 | 1% 1/4W | 271-1K-RC |
| 15K | R15, R18, R38, R41, R61, R64, R84, R87 | 8 | 1% 1/4W | 271-15K-RC |
| 30K | R17, R40, R63, R86, R98 | 5 | 1% 1/4W | 271-30K-RC |
| 18K | R19, R42, R65, R88 | 4 | 1% 1/4W | 271-18K-RC |
| 20K | TR1, TR2, TR3, TR4 | 4 | SINGLE TURN | 858-25PR20KLF |
| 10-100K LINEAR | POT1, POT2, POT3, POT4 | 4 | 16MM | http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/ |

MISC

| VALUE | DESIGNATOR | QTY | DESCRIPTION | MOUSER PART# |
|----------------|--|-----|---------------------|---|
| | B1, B2, B3, B4 | 4 | BANANA JACK BLACK | 530-108-0903-1 |
| VTL5C3/2 | V1, V2, V3, V4 | 4 | DUAL VACTROL | http://smallbear-electronics.mybigcommerce.com/photocoupler-dual-vactec-vtl5c3-2/ |
| SPDT ON-OFF-ON | SW1, SW2, SW3, SW4, SW5 | 5 | TOGGLE SWITCH | 633-M201301 |
| | LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8, LED9 | 9 | RED 3MM LED | 630-HLMP-K101 |
| | J1, J2, J4, J5, J7, J8, J10, J11, J13 | 9 | TINY JAX | 502-41 |
| | J3, J6, J9, J12 | 4 | TINY JAX NORMALIZED | 502-42A |
| | | 1 | POWER CONNECTOR | 587-306-50-010 |