

MAXREFDES37# BOM

Designation	Qty	Description
C1	1	1UF 50V 10% X7R ceramic capacitor (0603) Taiyo Yuden UMK107AB7105KA-T
C3, C6	2	1UF 10V 10% X5R ceramic capacitor (0402) TDK C1005X5R1A105K
C4A	1	0.1UF 50V 10% X7R ceramic capacitor (0402) Taiyo Yuden UMK105B7104KV-FR
C4B,C7,C10	3	0.1UF 16V 10% X5R ceramic capacitor (0201) TDK C0603X5R1C104K030BC
C8,C9	2	15PF 50V 5% NP0 ceramic capacitor (0201) TDK C0603C0G1H150J030BA
COUT1, COUT2, COUT3, COUT4	4	10UF 6.3V 20% X5R ceramic capacitor (0603) Würth Elektronik 885012106006
CBST	1	0.1UF 50V 10% X7R ceramic capacitor (0603) TDK C1608X7R1H104K
CIN1,CIN2	2	2.2UF 50V 10% X5R ceramic capacitor (0805) TDK C2012X5R1H225K
CSS	1	0.012UF 16V 10% X7R ceramic capacitor (0402) Murata GRM155R71C123KA01D
CVCC	1	2.2UF 16V 10% X5R ceramic capacitor (0402) TDK C1005X5R1C225K
CN1	1	M12-A 4-pin Male connector with back mounting PG9 HTP 12MS4000-PG9
CN2	1	8-pin Female connector (2x4x1.27) Samtec CLP-104-02-G-D
D1	1	40V 2A (POWERDI123) - DIODE SCHOTTKY Diodes Inc DFSL240L-7
D17	1	Yellow 1mA Led, (0402) Rohm SML-P12YTT86

D18	1	Red 1mA Led, (0402) Rohm SML-P12UTT86
D19	1	Green 1mA Led, (0402) Rohm SML-P12PTT86
D24, D25	2	36V TVS Diode with 55V clamp (3 SOT23) Semtech SDC36C.TCT
H1, H2, H3, H4	4	3-pin header (1x3) Sullins PEC36DAAN
L1	1	10uH, 16mOhm DCR, 8.5A Isat Würth 7443251000
R0A, RP1, RP2	3	0 Ohm resistor 50V (0402) 0.125W Vishay/Dale CRCW04020000Z0EDHP
R1	1	1 Ohm 1% resistor 50V (0402) 0.125W / 353mA max Vishay/Dale CRCW04021R00FKEDHP
R2, R3	2	20k Ohm 5% resistor (0603) any
R8	1	2.4k Ohm 5% resistor (0402) 0.1W any
R7	1	10k Ohm 5% resistor (0201) 0.05W / 2.2mA max any
RPWM1, RPWM2, RPWM3, RPWM4, RGPI1, RGPI2, RGPI3, RGPI4	8	100 Ohm 5% resistor (1206) 0.25W any
RSYNC, RM	2	0 Ohm resistor (0201) any
RFB1	1	100k Ohms 1% resistor (0402) any
RFB2	1	22.1k Ohm 1% resistor (0402) any
RUV_H	1	0 Ohm resistor (0603) any
SW1	1	Momentary Push Button Switch PANASONIC EVQ-Q2K03W
TB1, TB2, TB3,TB4	4	4-Pos Low Cost Terminal Block, White Phoenix Contact 1814511

TVS1, TVS2, TVS3, TVS4, TVS5, TVS6, TVS7, TVS8	8	Transient Voltage Suppression Diodes, 6.4V VBR Littlefuse SMAJ6.0A
U1	1	IO Link Device Transceiver (25 WLP) Maxim MAX14821EWA+
U2	1	Low Power uC (48 HWQFN) Renesas R5F100GLANA#U0
U3	1	60V 3.5A Ultra Small Step-Down Converter (20 TQFN) Maxim MAX17504ATP+
Y1	1	18.432MHz Crystal (4 SMD) Mercury X22-18.432-12-30/30/4085
C2, C2B	0	Not Installed. 0.1UF 50V 10% X7R ceramic capacitor (0402) Taiyo Yuden UMK105B7104KV-FR
CF	0	Not Installed TBD 16V 10% X7R ceramic capacitor (0402)
CV5	0	Not installed. CAP CER 1UF 10V 10% X5R (0402) TDK C1005X5R1A105K
R0B	0	Not installed. 0 Ohm resistor 50V (0402) 0.125W Vishay/Dale CRCW04020000Z0EDHP
RRT	0	Not installed. resistor (0402) any
RUV_L	0	Not installed. resistor (0603)
RVP	0	Not installed. Resistor (1206) any
RV5	0	Not installed .10 Ohm 5% resistor 50V (0402)
PCB	1	PC board: Berlin (MAXREFDES37#) IO Link Servo Driver
Pack-out	1	Economy Servo Motor HiTec HS-53

All components not listed above or that have 0 quantity are not installed.