

## MAXREFDES63 BOM

Designation	Qty	Description
C1, C2, C3, C111	4	CAP CER 1UF 6.3V 10% X7R (0402) Samsung CL05B105KQ5NQNC
C4, C5, C7, C201, C206, C301, C302, C412	8	CAP CER 0.1UF 16V 10% X7R (0402) TDK C1005X7R1C104K050BC
C6	1	CAP CER 4.7UF 10V Y5V (0603) Murata GRM188F51A475ZE20D
C8, C202	2	CAP CER 0.01UF 16V 10% X7R (0402) TDK C1005X7R1C103K050BA
C101	1	CAP TANT 220UF 4V 20% (2917) Panasonic 4TPE220MF
C102, C103	2	CAP CER 22UF 10V 20% X5R (1206) TDK C3216X5R1A226M160AC
C104	1	CAP CER 100PF 50V 5% NP0 (0402) TDK C1005C0G1H101J050BA
C107	1	CAP CER 0.068UF 25V 10% X7R (0402) TDK CGA2B3X7R1E683K050BB
C108, C114	2	CAP CER 1UF 16V 10% X7R (0603) AVX 0603YC105KAT2A
C109, C110	2	CAP CER 2.2UF 50V 10% X7R (1206) TDK C3216X7R1H225K160AB
C115	1	CAP CER 2.2UF 25V 10% X7R (0805) TDK C2012X7R1E225K125AB
C116	1	CAP CER 22PF 50V 1% NP0 (0402) TDK C1005C0G1H220F050BA
C117	1	CAP CER 100PF 50V 1% NP0 (0402) TDK C1005C0G1H101F050BA
C118	1	CAP CER 1000PF 2KV 10% X7R (1808) TDK C4520X7R3D102K130KE
C119	1	CAP CER 4700PF 25V 5% X7R (0402) Samsung CL05B472JA5NNNC
C129	1	Cap Cer 10uF 50V 10% X7R (1210) Taiyo Yuden UMK325AB7106KM-T
C204, C205	2	CAP CER 47PF 50V 1% NP0 (0402) TDK C1005C0G1H470F050BA
C400, C401, C402, C403, C404, C405, C406, C407	8	CAP CER 0.1UF 50V 10% X7R (0402) TDK CGA2B3X7R1H104K050BB
C408, C409, C410, C411, C413	5	CAP CER 1UF 50V 10% X7R (0603) Taiyo Yuden UMK107AB7105KA-T
D102, D103, D105, D107	4	DIODE SWITCHING 75V 0.2A (SOD523F) Fairchild 1N4148WT
D104	1	DIODE ZENER 6.46V 500MW (SOD323F) Diodes Inc DDZ6V8ASF-7
D106	1	DIODE Schottky 30V 0.2A (SC-90A) Panasonic DB2J31300L
D400	1	TVS Diode 33VWM 53.3VC SMA On Semi 1SMA33AT3G
D401	1	TVS Diode 6VWM 10.3VC SMA On Semi 1SMA6.0AT3G
D402, D403, D404, D405, D406, D407, D408, D409, D410, D411, D412, D413, D414, D415, D416, D417	16	SCHOTTKY DIODE ULTRA FAST 50V 2A SMA On Semi MURA205T3G
J400, J401	2	Conn Term BLK 8-Pos R/A 2.5mm SMD Phoenix 1771088

L201	1	FERRITE CHIP 600 OHM (0805) Murata BLM21AG601SN1D
LED1, LED3, LED4	3	LED GREEN 0.2MM 13MCD (0402) Rohm SML-P12PTT86
LED2	1	LED RED-HB 0.2MM 85MCD (0402) Rohm SML-P12UTT86
LED400, LED401, LED402, LED403, LED404, LED405, LED406, LED407, LED408	9	LED 2.1X0.6mm 525nm GRN RA SMD Kingbright APA2106ZGC
P2	1	CONN HEADER 10 POS DUAL .05" SMD Samtec FTSH-105-01-L-DV
P201	1	CONN RCPT MCR USB AB SMD TH SHLL Hirose ZX62RD-AB-5P8
Q101	1	TRANS NPN 40V 200MA (SOT23) On Semi MMBT3904LT1G
R1, R2, R3, R4, R6, R7, R408, R410, R414	9	RES 0.0 OHM 1/10W JUMP (0402) Panasonic ERJ-2GE0R00X
R5, R8, R9, R11, R102	5	RES 10K OHM 1/10W 5% (0402) Panasonic ERJ-2GEJ103X
R10, R12	2	RES 1.5K OHM 1/10W 5% (0402) Panasonic ERJ-2GEJ152X
R101	1	RES 36.5K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF3652X
R103, R114	2	RES 11K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF1102X
R104, R301, R302	3	RES 22K OHM 1/10W 5% (0402) Panasonic ERJ-2GEJ223X
R105, R201, R202	3	RES 27 OHM 1/10W 5% (0603) Panasonic ERJ-3GEYJ270V
R108, R111	2	RES 30.1K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF3012X
R110, R400, R401, R402, R403, R404, R405, R406, R407	9	RES 20K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF2002X
R115	1	RES 280K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF2803X
R116	1	RES 120K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF1203X
R117	1	RES 27.4K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF2742X
R118	1	RES 80.6K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF8062X
R119	1	RES 2.37K OHM 1/10W 1% (0402) Panasonic P2.37KLCT-ND
R120	1	RES 1.24K OHM 1/10W 1% (0402) Panasonic P1.24KLCT-ND
R132		RES 22K OHM 1/10W 1% (0603) Panasonic ERJ-3EKF2202V
R133, R415	2	RES 3.3K OHM 1/10W 5% (0402) Panasonic ERJ-2GEJ332X
R303, R304, R409, R416, R417, R418	6	RES 33K OHM 1/10W 5% (0402) Panasonic ERJ-2GEJ333X
R411	1	RES 56K OHM 1/10W 1% (0402) Panasonic ERJ-2RKF5602X
T101	1	TRANSFORMER, CUSTOM Sumida 06351-T589, Type CEE94

U1	1	MCU ARM 128K FLASH/TIMER (7x7 LQFP-48) ST Micro STM32F103CBT6
U101	1	5A, 2.4V to 5.5V Input, High-Efficiency Power Module Maxim MAX17515ELI+
U102	1	AC-DC and DC-DC Peak-Current-Mode Converter (TQFN-16) Maxim MAX17498CATE+
U201	1	IC USB SERIAL BASIC UART (12DFN) FTDI FT234XD-R
U301	1	Six-Channel Digital Isolator Maxim MAX14850ASE+
U400	1	MAXIM MAX14900 Maxim MAX14900
C105, C112, C113, C120-C123, C303-C304	0	Not installed, CAP CER (0603)
D106	0	Not installed, Diode (SOD523F)
P1	0	Not installed, PCB fingers
R13-R14, R106, R112-R113, R121- R131, R203, R412-R413	0	Not installed, Resistor (0402)
U103	0	Not installed, Opto-Coupler Toshiba TLP291(GRL-TP,SE(T
U104	0	Not installed, TL431 TI IC VREF SHUNT PREC ADJ SOT-23-5
U302	0	Not installed, Six-Channel Digital Isolator Maxim MAX14850ASE+
Y1	0	Not installed, Crystal Hosonic DNCB8.00000ETSMA
C127, C128	2	Cap Alum 47uF 50V 20% SMD Panasonic EEE-FT1H47AP
R15, R16	2	Res 0.22 Ohm 1/2W 1% (1206) Vishay-Dale RCWE1206R220FKEA
TP1	1	TEST POINT PC MINI 0.040"D RED Keystone 5000
TP2	1	TEST POINT PC MINI 0.040"D BLK Keystone 5001
C124, C125, C126	0	Not installed, Cap Tant 33uF 50V 20% (2917) Kemet T543X336M050AHE040
J101	0	Not installed, CONN PWR JACK 2.1X5.5MM HIGH CUR CUI PJ-202AH
PCB	1	PC board: MAXREFDES63# 8-Digital-Output Micro PLC Card