

MAXREFDES67 BOM

Designation	Qty	Description
+24V, VREF	2	Red Multipurpose test point Keystone 5000
C1 - C5, C11, C313, C405, C406, C409, C414, C416	12	1uF 6.3V 10% X7R ceramic capacitor (0402) Samsung CL05B105KQ5NQNC
C6 - C10, C14, C201, C206, C301 - C312, C318, C319, C410, C412, C415, C418 - C422	30	0.1uF 16V 10% X7R ceramic capacitor (0402) TDK C1005X7R1C104K050BC
C12, C202, C326 - C329	6	0.01uF 16V 10% X7R ceramic capacitor (0402) TDK C1005X7R1C103K050BA
C13	1	15pF 25V 5% C0G ceramic capacitor (0402) MURATA GRM1555C1E150JA01D
C15, C16	2	2.2uF 10%, 16V, X5R ceramic capacitor (0603) Murata GRM188R61C225K
C17	1	4.7uF 10%, 16V, X7R ceramic capcitor (0805) Murata GRM21BR71C475K
C101, C104	2	1uF 25V 10% X7R ceramic capacitor (0805) MURATA GRM21BR71E105KA99K
C102, C108, C408	3	10uF 10V 10% X7R ceramic capacitor (0805) MURATA GRM21BR71A106KE51L
C103, C572	2	0.22uF 10%, 50V, X7R ceramic capacitor (0603) Murata GCM188R71H224K
C105	1	1uF 16V 10% X7R ceramic capacitor (0603) AVX 0603YC105KAT2A
C107, C577	2	10uF 25V 10% X7R ceramic capacitor (1206) MURATA GRM31CR61E106KA12L
C204, C205, C320, C321, C411, C417	6	47pF 50V 1% NP0 ceramic capacitor (0402) TDK C1005C0G1H470F050BA
C207, C413	2	4.7uF 20%, 6.3V, X5R ceramic capacitor (0402) Murata GRM155R60J475M
C322 - C325	4	0.047uF 10% 10V, X7R ceramic capacitor (0402) Murata GRM155R71A473KA01D
C330	1	0.047uF 5% 50V, C0G ceramic capacitor (1206) Murata GRM31M5C1H473JA01
C331, C332	2	0.1uF 5% 25V, C0G ceramic capacitor (1206) Murata GRM31C5C1E104JA01
C404, C569, C573, C574, C576	0	Not installed, Capacitor (0402)
C407	1	1000pF 10%, 50V, C0G ceramic capacitor (0603) Murata GRM1555C1H102JA01D
C560, C579	2	2.2uF 10%, 50V, X7R ceramic capacitor (1206) Murata GRM31CR71H225K
C561, C568	2	1uF 10%, 16V, X7R ceramic capacitor (0603) Murata GRM188R71C105K
C562	1	0.068uF 10%, 10V, X5R ceramic capacitor (0402) Kemet C0402C683K8PAC
C563	1	1uF 10%, 10V, X5R ceramic capacitor (0402) Murata GRM155R61A105K

C564	1	22pF 5%, 50V, C0G ceramic capacitor (0402) Murata GRM1555C1H220J
C565	1	4700pF 10%, 25V, X7R ceramic capacitor (0402) Murata GRM155R71E472K
C566, C567	2	100pF 5%, 50V, C0G ceramic capacitor (0402) Murata GRM1555C1H101J
C570, C575, C578	0	Not installed, Capacitor (0603)
C571	1	5600pF, 10%, 3kV, X7R (2220) AVX 2220HC562KAT1A
D501, D507, D509	0	Not installed, 75V 200mA Schottky Diode (SOD523F)
D502, D504, D505, D506, D508	5	75V 200mA Schottky Diode (SOD523F) FAIRCHILD 1N4148WT
D503	1	6.46V 500mW Zener Diode (SOD323F) Diodes DDZ6V8ASF-7
GND, PGND	2	Black multipurpose test points Keystone 5001
J501	1	CONN PWR JACK 2.1X5.5MM HIGH CUR CUI PJ-202AH
L101	1	68uH inductor (2.95MM X 2.95MM) Coilcraft LPS3015-683MRB
L201	1	Ferrite bead 600 OHM (0805) Murata BLM21AG601SN1D
M301, M302	2	Depletion Mode N-ch MOSFET (SOT-23-3) Infineon Tech BSS159N
N501	0	P-Ch MOSFET 50V, 130mA (SOT-23) FAIRCHILD BSS84
N502 - N504	0	N-Ch MOSFET 60V, 300mA (SOT-23) FAIRCHILD 2N7002K
P1	0	Not installed, PCB fingers
P2	1	Conn Header 10 POS DUAL .05" SMD Samtec FTS-105-01-L-DV
P201	1	Conn Rcpt Micro USB B SMD R/A Hirose ZX62RD-AB-5P8
P301	1	4-Pos Terminal Block Phoenix Contact 1814511
PTC301	0	Not installed, PTC resettable fuse (0603)
Q501	1	40V 200mA NPN Transistor (SOT-23) On Semi MMBT3904LT3G
R1, R3, R7, R13 - R15, R17, R203, R403, R544, R545, R547, R549 - R551	0	Not installed, Resistor (0402)
R2, R4, R6	3	10K ohm 5% resistor (0402) Panasonic ERJ-2GEJ103X
R5, R8-R12, R111, R112	8	0.0 ohm 5% resistor (0402) Panasonic ERJ-2GE0R00X
R16	1	1k ohm 5% resistor (0402)
R101	1	69.8K ohm 1% resistor (0402)
R102	1	22.1 ohm 1% resistor (0402)
R103	1	158K ohm 1% resistor (0402)
R104	1	49.9K ohm 1% resistor (0402)

R105	1	240K ohm 1% resistor (0402)
R106, R113	2	10K ohm 1% resistor (0402)
R114	1	49.9K ohm 1% resistor (0402)
R201, R202	2	27 ohm 5% resistor (0603) Panasonic ERJ-3GEYJ270V
R302	1	15.4 ohm 0.1% 1/6W resistor (0603)
R303, R304	2	2.2k ohm 5% resistor (0603) Panasonic ERJ-PA3J222V
R306, R308, R310, R312, R317 - R320	8	10k ohm 0.1% resistor (0402) Panasonic ERA-2AEB103X
R305, R307, R309, R311	4	9.53k ohm 0.1% resistor (0402) Panasonic ERA-2AEB9531X
R313 - R316	4	1.15k ohm 0.1% resistor (0402) Panasonic ERA-2AEB1151X
R301, R323, R325, R326	4	2.32k ohm 0.1% 1/4W resistor (0805) TE Connectivity 4-2176092-8
R327, R328	2	49.9 ohm 1% resistor (0402)
R404, R405	2	1k ohm 0.1% resistor (0402) Vishay TNPW04021K00BEED
R406 - R409	4	100 ohm 5% resistor (0402)
R532	1	280k ohm 1% resistor (0402)
R533	1	80.6k ohm 1% resistor (0402)
R534, R536	2	30.1k ohm 1% resistor (0402)
R535	1	20k ohm 1% resistor (0402)
R537	1	120k ohm 1% resistor (0402)
R538	1	27.4k ohm 1% resistor (0402)
R539	1	2.37k ohm 1% resistor (0402)
R540	1	1.24k ohm 1% resistor (0402)
R541	1	10.7k ohm 1% resistor (0402)
R543	1	28 ohm 1% resistor (0402)
R546, R548	2	10 ohm 5% resistor (0402)
R552	1	22K ohm 5% resistor (0402) Panasonic ERJ-2GEJ223X
T501	1	Transformer WE 750315319
TVS301 - TVS304	4	Transient voltage suppression diode Littelfuse SMAJ24CA
U1	1	STM32F4 MCU (LQFP-64) ST Micro STM32F415RGT6
U101	1	60V, 100mA, High-efficient DC-DC Converter (10 uMAX) Maxim MAX17552AUB+
U102, U103	2	Linear Regulator (6 SOT-23) Maxim MAX17651AZT+
U201	1	USB-to-UART (12 DFN-EP) FTDI FT234XD-R
U301, U304	2	Beyond the Rails SPST Analog Switch (8 TDFN-EP) Maxim MAX14759ETA+
U302, U303	2	Beyond the Rails SPDT Analog Switch (8 TDFN-EP) Maxim MAX14763ETA+
U305	1	Beyond the Rails Dual Op Amplifier (14 TSSOP) Maxim MAX44267AUD+
U306	1	Precision Quad Op Amplifier (14 TSSOP) Maxim MAX44245AUD+

U308	1	Temperture Sensor (8 uMAX) Maxim MAX31723MUA+
U401	1	24-bit 6-Ch ADC with Integrated PGA (32 TQFN55) Maxim MAX11254ATJ+
U404	1	Precision Op Amplifier (5 SOT) Maxim MAX44244AUK+
U405	1	Voltage Reference (8 SO) Maxim MAX6126AASA30+
U406	1	4-Ch Data Isolator (16 Narrow SOIC) Maxim MAX14930BASE+
U407	1	4-Ch Data Isolator (16 Narrow SOIC) Maxim MAX14932BASE+
U501	1	Peak Current Mode Converter (16 TQFN-EP) Maxim MAX17498CATE+
Y1	1	50MHz Oscillator Hosonic DNCB50.00000ETSMA
PCB	1	PC board: MAXREFDES67# Universal Input uPLC Card