

### Annexure A

Manufacturer Part Number	Manufacturer	Description	Quantity
HMC545	Analog Devices	MMIC SPDT	20
C1812C104J1GACTU	KEMET	CAPACITOR, 100nF, 1812, 100V	100
CRCW120618K0FKEA	Vishay	RESISTOR, 18k, 1206	50
RC1206FR-071K8L	Yageo	RESISTOR, 1k8, 1206	50
450BXC10MEFC10X20	RUBYCON	CAPACITOR, 10uF, Axial 5x10, 450V	10
EEEFK1V101P	Panasonic	CAPACITOR, 100uF, CASE F, 25V	10
CRCW12066K20FKEA	Vishay	RESISTOR, 6k2, 1206, 1%	25
RC1206FR-071K8L	Yageo	RESISTOR, 1k8, 1206, 1%	25
CRGP2010F1M0	TE Connectivity	RESISTOR, 1M, 2010, 1%, 500V	25
KPTD-3216SURC	Kingbright	DIODE, LED, RED	10
KPTD-3216MGC	Kingbright	DIODE, LED, GREEN	10
BSS123	DiodesZetex	TRANSISTOR, N-Channel MOSFET, SOT-23	10
HUF75645	ON Semiconductor	TRANSISTOR, N-Channel MOSFET, TO-220	50
BUK9608-55	Nexperia	TRANSISTOR, N-Channel MOSFET, D2-PAK	10
CL31C101JBCNNNC	Samsung Electro-Mechanics	CAPACITOR, 100pF, 1206	100
EEE1VA100SR	Panasonic	CAPACITOR, 10uF, Case C, 35V, Electrolytic	25
EEEF1E330AP	PANASONIC	CAPACITOR, 33uF, Case G, 25V	25
OLS 330 MSD	Kingbright	Typical Red LED, 1206, 20mA	20
MBR5140	ON Semiconductor	Diode Schottky 40V 1A DO214AA	20
IHLPS050CEER8R2M01	Vishay	INDUCTOR, 8.2UH, 16A, 20%	5
87831-2020	Molex	Shrouded Header, 20-Pin, Dual row, 2mm pitch	5
87831-2620	Molex	Shrouded Header, 26-Pin, Dual row, 2mm pitch	5
CRG1206F8K2	TE Connectivity	RESISTOR, 8k2, 1206, 1%	50
3306F-1-102	Bourns	Single Turn Top Adjust Trimmer, 1KΩ	5
LEM 6-NP	LEM	LEM hall current sensor +/- 6Amp	2
PTN78020WAH	Texas Instruments	6A Switching Regulator	2
L-59EGW	Kingbright	Red/green common cathode LED	50
KP-3216MGC	Kingbright	LED, 1206, Green	50
87831-2020	Molex	Shrouded Header, 20-Pin, Dual row, 2mm pitch	10
9185066324	HARTING	Shrouded Header, 6-Pin, Dual row, 2.54mm pitch	5
B3B-XH-A(LF)(SN)	JST	Shrouded header, XH, 2.5mm pitch, straight, 3 way	10
B6B-XH-A(LF)(SN)	JST	Shrouded header, XH, 2.5mm pitch, straight, 6 way	10
KSR232G LFS	C & K	6.1x3.7 TACT switch	10
CRCW120610K0FKEA	Vishay	RESISTOR, 1206, 10K, 1%	1 reel (5000)
Alps EC11E15244C0	Alps Alpine	Alps Rotary Encoder EC11E15244C0	3
KF33BDT	STMicroelectronics	500mA, Very Low Drop (0.4V) Voltage Regulator	5
AD22100ATZ	Analog Devices	Voltage o/p temperature sensor, TO-92	5
63M-502	Vishay	5KΩ Top Adjust Trimpot, 500mW	5
87568-2093	Molex	Wire-board receptacle, IDC, 20 pin	10
XP1001000-05R	Lantronix	LANTRONIX MODULE, SERIAL TO ETHERNET, X-port	5
SS496A1	Honeywell	SS496A1 - Hall Effect Sensor, Linear, 1.5 mA, TO-92, 3 Pins, 4.5 V, 10.5 V	3
CW8400	Chemtronics	Flux Dispensing Pen Rosin	3
8341-10ML	MG Chemicals	Solder Flux Syringe, No Clean 10 ml	2
RC2512JK-070RL	Yageo	SMD Chip Resistor 2512 0 Ohm	20
T510X477K006ATE030	KEMET	SMD Tantalum Capacitor 470 uF 6.3 V 2917	20
IPA100	Electrolube	Alcohol Wipes	2
HFFR400DB	Electrolube	Flux Remover	2
EZ240D5	Sensata / Crydom	Sensata / Crydom 5 A rms Solid State Relay, Zero Cross, Panel Mount, SCR, 280 V Maximum Load	5
DDR-60G-12	Mean Well	Mean Well DIN Rail Panel Mount Power Supply, 12V dc Output Voltage, 5A output current	4
ABRR016	MULTICOMP PRO	RS PRO Illuminated Single Pole Single Throw (SPST), Latching Rocker Switch Panel Mount	5
22-01-3037	Molex	22-01-3037 - Molex Female Connector Housing - KK 254, 2.54mm Pitch, 3 Way, 1 Row	30
08-50-0032	Molex	Molex KK 4809 Crimp Terminal Contact, Female, 0.05mm <sup>2</sup> to 0.35mm <sup>2</sup> , 30AWG to 22AWG, Tin Plating	100
22-23-2031	Molex	Molex KK 254 6373, 2.54mm Pitch, 3 Way, 1 Row, Straight PCB Header, Through Hole	30
U.FL-2LP-088K1T-A-(300)	Hirose	Hirose Coaxial Cable 50 Ω	5
9WP0412F6002	Sanyo Denki	Sanyo Denki 9WP Series Axial Fan, 40 x 40 x 20mm, 6.5cfm, 720mW, 12 V dc, IP68	2
9LG1224P1G001	Sanyo Denki	Sanyo Denki San Ace 9LG Series Axial Fan, 120 x 120 x 38mm, 420m <sup>3</sup> /h, 38.4W, 24 V dc	2
9LG0624P4H001	Sanyo Denki	Axial Fan, San Ace 60L Series, 24 V, DC, 60 mm, 25 mm, 35 dBA, 27.5 cu.ft/min	4
HDR-60-12	Mean Well	HDR-60-12 - AC/DC DIN Rail Power Supply (PSU), ITE, 1 Output, 54 W, 12 V, 4.5 A	5
STP40NF10L	STMicroelectronics	STP40NF10L N-Channel MOSFET, 40 A, 100 V STripFET, 3-Pin TO-220 STMicroelectronics	20
G2RL-1 12DC	Omron	Omron SPDT Non-Latching Relay PCB Mount, 12V dc Coil, 12 A	10
CMX60D5	Sensata / Crydom	Sensata / Crydom 5 A SPST Solid State Relay, DC, PCB Mount, MOSFET, 60 V dc Maximum Load	2
L7915CV	STMicroelectronics	STMicroelectronics L7915CV Negative Voltage Regulator, 1.5A, -15 V 3-Pin, TO-220	10
UCM1H331MNL1GS	Nichicon	Nichicon 330µF 50V dc Aluminium Electrolytic Capacitor, Surface Mount 10 (Dia.) x 10mm +105°C 10mm 4.5mm	20
C1206C104J5RACTU	KEMET	KEMET C1206C104J5RACTU 100nF MLCC 50V dc ±5% Tolerance SMD	20
SP400-0.007-00-54	Bergquist	Thermal Interface Pad, Fibreglass, 0.9W/m-K, 19.05 x 12.7mm 0.178mm	50
OP27GPZ	Analog Devices	OP27GPZ Analog Devices, Op Amp, 8MHz, 8-Pin CDIP	20
MC7812BD2TG	ON Semiconductor	ON Semiconductor MC7812BD2TG Linear Voltage Regulator, 2.2A, 12 V 3-Pin, D2PAK	10
L7912CD2T-TR	STMicroelectronics	STMicroelectronics L7912CD2T-TR Negative Voltage Regulator, 1.5A, -12 V 3-Pin, D2PAK	10
C0603C104K3RACTU	KEMET	CAPACITOR, 100nF, 0603, 25V	30
LTC1440-CS8	Analog Devices	IC, Comparator, SO-8	10
BC847	Infineon	NPN transistor, 0.1A Ic, 5Vce, SOT23	10
Alps EC11E15244C0	Alps Alpine	Alps Rotary Encoder EC11E15244C0	1
6757-201-2201	Deutsch	6757-201-2201 - Insertion Tool, & Removal Tool, Deutsch 6862-201 Series #22 Size Contacts, IMC Series	1
IMC26-2212X	Deutsch	IMC26-2212X - Circular Connector, IMC 200 Series, Cable Mount Plug, 12 Contacts	2
L7815CV	STMicroelectronics	Linear Voltage Regulator, Fixed, Positive, 23V To 35V In, 15V And 2A Out, TO-220-3	10
FN286-6-06	Schaffner	Power Entry Connector, FN 280 Series, Plug, 250 VAC, 6 A, Panel Mount, Solder	5
B3B-XH-A (LF)(SN)	JST	Wire-To-Board Connector, Vertical, 2.5 mm, 3 Contacts, Header, XH Series, Through Hole, 1 Rows	20
EEEFK2A330P	Panasonic	SMD Aluminium Electrolytic Capacitor, Radial Can - SMD, 33 µF, 100 V	20
C1206J104MSRACTU	KEMET	SMD Multilayer Ceramic Capacitor, 0.1 µF, 50 V, 1206	100
1825AC104KAT1A	AVX	CAPACITOR, 100nF, 1825	24
CL31F105ZBFNNNE	Samsung Electro-Mechanics	CAPACITOR, 1uF, 1206, 50V	20
EEEFK1E101P	Panasonic	CAPACITOR, 100uF, CASE E, 25V	10
06035C103JAT2A	AVX	CAPACITOR, 10nF, 0603, 50V	10
BZX84-CSV1,215	Nexperia	DIODE, Zener, 5V1, SOT-23	10
STTH112U	STMicroelectronics	DIODE, Rectifier, SMB, 1A, fast recovery, 1200V	10
KPTD-3216SURCK	Kingbright	DIODE, LED, High Luminosity Red, 1206	10
MCV 1,5/ 5-G-3,5	Phoenix Contact	PHOENIX CONTACT, vertical PCB header, 3.5mm pitch, 5 way	10

MSTBA 2.5/ 2-G-5.08	Phoenix Contact	PHOENIX CONTACT, PCB header, 90 deg, 2 way, 5.08mm	10
5-1814832-1	TE Connectivity	CONNECTOR, SMA, Straight PCB thruhole	25
CRCW060351R0FKEA	Vishay	RESISTOR, 51R, 0603, 1%	25
CRCW120622R0FKEA	Vishay	RESISTOR, 22R, 1206, 1%	20
ERJP08F1004V	Panasonic	RESISTOR, 1M, 1206, 500V	15
KF33BDT	STMicroelectronics	IC, Regulator, 500mA, Very Low Drop (0.4V), TO-252	5
HMC544	Analog Devices	IC, Switch, GaAs, SOT23-6	10
IR2213	Infineon	IC, Hi-Lo side Mosfet driver, SO-16	10
BD6221	ROHM	IC, Motor Controller, SO-8	10
LFSPX0018036	IQD	IC, Oscillator, 10MHz, CFPS 72	5
LM809M3-2.93	Texas Instruments	IC, Microprocessor Reset Circuits,	5
SN74LVC245ADW	Texas Instruments	Octal Bi-Directional Transceiver with 3-State Inputs/Outputs, SOIC	5
74LVC1G125GW	Nexperia	Non-Inverting 3-State Buffer	5