

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	Value	Footprint
Fitted	Printed Circuit Board	IPCB	T	1	Any		
Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	C1, C4, C5, C6, C8, C18, C19, C20, C21, C22, C29, C30, C31, C34, C37, C39, C49	06035C104KAT2A	22	AVX	0.1uF	0603
Fitted	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	C2, C3, C7, C9, C11, C13, C23, C32	C2012X5R1H475K125AB	8	TDK	4.7uF	0805_HV
Fitted	CAP, CERM, 22uF, 16V, +/-20%, X5R, 0805	C10, C17, C25, C26, C33, C57	GRM21BR61C226ME44	6	MuRata	22uF	0805_HV
Fitted	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	C12, C14, C15, C16	06031C103JAT2A	4	AVX	0.01uF	0603
Fitted	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	C24, C52, C53	EMK107BBJ106MA-T	3	Taiyo Yuden	10uF	0603
Fitted	CAP, CERM, 10uF, 25V, +/-20%, X5R, 0603	C27	C1608X5R1E106M080AC	1	TDK	10uF	0603
Fitted	CAP, CERM, 1000pF, 2KV 10% X7R 1206	C35, C36, C40, C41, C62, C63	202R18W102KV4E	6	Johanson Dielectrics Inc	1000pF	1206
Fitted	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	C38	GRM32ER71H106KA12L	1	MuRata	10uF	1210
Fitted	CAP, CERM, 0.027uF, 50V, +/-5%, COG/NP0, 1206	C42, C43, C44, C45	GRM3195C1H273JA01D	4	MuRata	0.027uF	1206
Fitted	CAP, CERM, 1000pF, 100V, +/-5%, X7R, 0603	C46, C47	06031C102JAT2A	2	AVX	1000pF	0603
Fitted	CAP, CERM, 3900pF, 50V, +/-10%, X7R, 0603	C48, C50	GRM188R71H392KA01D	2	MuRata	3900pF	0603
Fitted	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0805	C54	0805YD106MAT2A	1	AVX	10uF	0805_HV
Fitted	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	C60	EMK107B7105KA-T	1	Taiyo Yuden	1uF	0603
Fitted	CAP, CERM, 22uF, 16V, +/-10%, X5R, 0805	C61	C2012X5R1C226K125AC	1	TDK	22uF	0805_HV
Fitted	CAP, TA, 10uF, 25V, +/-10%, 1.5 ohm, SMD	C64	293D106X9025C2TE3	1	Vishay-Sprague	10uF	6032-28
Fitted	CAP, TA, 10uF, 25V, +/-10%, 0.3 ohm, SMD	C65	TPSC106K025R0300	1	AVX	10uF	6032-28
Fitted	CAP, TA, 10uF, 20V, +/-10%, 1 ohm, SMD	C66, C67	TPSB106K020R1000	2	AVX	10uF	3528-21
Fitted	CAP, TA, 10uF, 10V, +/-20%, 1.8 ohm, SMD	C68, C69, C70, C71, C72	TPSA106M010R1800	5	AVX	10uF	3216-18
Fitted	LED SmartLED Green 570NM	D1, D2	LG L29K-G2J1-24-Z	2	OSRAM	Green	LED0603AA
Fitted	DIODE ZENER 3.8V 1W PMDS	D3	PTZTE253.6B	1	Rohm Semiconductor	3.8V	powerDI123
Fitted	DIODE ZENER 5.9V 1W PMDS	D4	PTZTE255.6B	1	Rohm Semiconductor	5.9V	powerDI123
Fitted	Diode, TVS, ARRAY, 19V, SOD323	D5, D6, D7, D8	CDSOD323-T12C	4	Bourns Inc.	19	sod-323
Fitted	Diode, P-N, 70V, 0.2A, SOT-323	D13, D14	DESD1P0RFW-7	2	Diodes Inc	DESD1P0RFW-7	SOT-323
Fitted	TVS 18 VOLT 600 WATT BI-DIR SMB	D15, D16, D17	SMBJ18CA	3	Littelfuse Inc	SMBJ18CA	DIO_SMB_BIAAAA
Fitted	DIODE ZENER 15V 500MW SOD123	D18	MMSZ4702	1	Fairchild semiconductor	15V	SOD-123
Fitted	DIODE ZENER 15V 2W D0214AA	D19	SMBJ5929BE3/TR13	1	Microsemi Commercial Component Group	15V	SMB
Fitted	FERRITE CHIP 1000 OHM 300MA 0603	FB1, FB2	MMZ1608Y102B	2	TDK Corporation	1000 OHM	FB0603
Fitted	FERRITE CHIP 1000 OHM 300MA 0603	FB3, L1, L2	MMZ1608B102C	3	TDK Corporation	1000 OHM	FB0603
Not Fitted		FID1, FID2, FID3, FID4, FID5, FID6		6			FID_TOP_40_80BA
Fitted	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	H1, H2	NY PMS 440 0025 PH	2	B&F Fastener Supply		NY PMS 440 0025 PH
Fitted	Terminal Block, 8x1, 2.54 mm, TH	J1, J2, J5	1725711	3	Phoenix Contact		CONN_1725711
Fitted	Receptacle, 100mil, 4X1 TH	J3, J6	282834-4	2	TE Connectivity		TEC_282834-4
Not Fitted	Thermal Transfer Printable Labels, 0.650	W	x	0.200"	H		140
Fitted	Mountin hole, NPTH Drill 3.2mm	MH1, MH2		2			MH3.2_H5_W6_K08_STARHEAD
Fitted	RES, 10.0k ohm, 0.1%, 0.1W, 0603	R2, R31, R33, R38, R41, R50	RG1608P-103-B-T5	6	Susumu Co Ltd	10.0k	0603
Fitted	RES, 1.21k ohm, 0.1%, 0.1W, 0603	R3	RT0603BRD071K21L	1	Yageo America	1.21k	0603
Fitted	RES, 470 ohm, 5%, 0.1W, 0603	R4	CRCW0603470RJNEA	1	Vishay-Dale	470	0603
Fitted	RES, 10.0 ohm, 1%, 0.1W, 0603	R6, R7, R46	CRCW060310R0FKEA	3	Vishay-Dale	10.0	0603
Fitted	RES 100 OHM .4W 1% 0204 MELF	R8, R9, R10, R11	MMA02040C1000FB300	4	Vishay Beyschlag	100E	1206
Fitted	RES, 200 ohm, 0.1%, 0.125W, 0805	R12, R15	RG2012P-201-B-T5	2	Susumu Co Ltd	200	0805
Fitted	RES, 1.00k ohm, 1%, 0.1W, 0603	R14, R16, R17, R19, R72, R73, R74, R75, R76, R77, R78	CRCW06031K00FKEA	11	Vishay-Dale	1.00k	0603
Fitted	RES, 1.11k ohm, 0.1%, 0.1W, 0603	R20, R22, R24, R28	RT0603BRD071K11L	4	Yageo America	1.11k	0603
Fitted	RES, 0 ohm, 5%, 0.1W, 0603	R21, R23, R25, R26, R27, R29, R35, R39, R54, R55, R56, R57, R58, R59, R60, R66	RC0603JR-070RL	20	Yageo America	0	0603
Fitted	RES, 0 ohm, 5%, 0.25W, 1206	R30, R34	RC1206JR-070RL	2	Yageo America	0	1206
Fitted	RES, 47.0k ohm, 0.1%, 0.1W, 0603	R43, R49, R71	RT0603BRD0747KL	3	Yageo America	47.0k	0603
Fitted	RES, 10 ohm, 5%, 0.25W, 1206	R44, R45	CRCW120610R0JNEA	2	Vishay-Dale	10E	1206
Fitted	RES, 49.9 ohm, 0.1%, 0.1W, 0603	R48	RT0603BRD0749R9L	1	Yageo America	49.9	0603
Fitted	RES, 2.2k ohm, 5%, 0.1W, 0603	R52, R53	CRCW06032K20JNEA	2	Vishay-Dale	2.2k	0603
Fitted	RES 0.0 OHM .5W JUMP 1206 SMD	R62, R63, R66, R67	CRCW1206000Z0EAHP	4	Vishay Dale	0	1206
Fitted	RES, 15k ohm, 1/10W 0.1% 0603	R64, R69	RT0603BRB0715KL	2	Vishay-Dale	15k	0603
Fitted	Test Point 40mil pad 20mil drill	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15	STD	21	STD	STD	TP1_PD40_D0.5_S50
Fitted	Low-Voltage 8-Bit I2C and SMBus I/O Expander, 1.65 to 5.5 V, -40 to 85 C	U1	TCA6408APWR	1	Texas Instruments		PW0016A_N
Fitted	1-Channel, 16-Bit, Programmable Current/Voltage Output DAC for 4-20mA	U2, U3	DAC8760IPWP	2	Texas Instruments		PWP24-DIE84X166
Fitted	Single Output LDO, 100 mA, Fixed 3.3 V Output, 3 to 60 V Input, with Enable	U4	TPS7A1633DGNR	1	Texas Instruments		DGN0008C_N
Fitted	IC, 60-V, 6-A IQ, 100-mA, LDO Voltage Regulator with Enable and Power	U5	TPS7A1650DGNR	1	TI	TPS7A1650DGNR	DGN_8P
Fitted	Precision, Low Noise, Rail-to-Rail Output, 36V Zero-Drift Operational Amp	U6, U7	OPA188AIDBVT	2	Texas Instruments	OPA188AIDBVT	DBV0005A_L
Fitted	16 bit 400KSPS 4 Channel SAR ADC	U8	ADS8684DBT	1	TI		DBT0038A_M
Fitted	40V 7-Channel Low Side Driver, PW0016A	U9	TPL7407LPW	1	Texas Instruments		PW0016A_N
Not Fitted	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	C28	06031C103JAT2A	0	AVX	0.01uF	0603
Not Fitted	Diode, P-N, 70V, 0.2A, SOT-323	D9, D10, D11, D12	DESD1P0RFW-7	0	Diodes Inc	DNP	SOT-323
Not Fitted	RES, 0 ohm, 5%, 0.1W, 0603	R1, R5, R32, R36, R40, R42, R79, R80	RC0603JR-070RL	0	Yageo America	0	0603
Not Fitted	RES, 200 ohm, 0.1%, 0.125W, 0805	R13	RG2012P-201-B-T5	0	Susumu Co Ltd		0805
Not Fitted	RES, 200 ohm, 0.1%, 0.125W, 0805	R18	RG2012P-201-B-T5	0	Susumu Co Ltd	200	0805
Not Fitted	RES, 1.6k ohm, 5%, 0.1W, 0603	R37	CRCW06031K60JNEA	0	Vishay-Dale	1.6k	0603
Not Fitted	RES, 47.0k ohm, 0.1%, 0.1W, 0603	R47	RT0603BRD0747KL	0	Yageo America	47.0k	0603
Not Fitted	RES, 10.0k ohm, 0.1%, 0.1W, 0603	R51	RG1608P-103-B-T5	0	Susumu Co Ltd	10.0k	0603

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