

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value	Alternate Manufacturer	Alternate PartNumber
Fitted	Printed Circuit Board	IPC8101	PMP23475	1	Any			-	-
Fitted	CAP, CERM, 1 uF, 35 V, +/- 10%, X5R, 0603	C1	GMK107BJ105KA-T	1	Taiyo Yuden	0603	1uF		
Fitted	Cap Ceramic 0.15uF 1000V X7R 10% SMD 2225 125°C Embossed Plastic T/R	C2, C3, C4, C5	C2225C154KDRAC78	4	KEMET	2225	150nF		
Fitted	CAP, CERM, 0.047 uF, 630 V, +/- 10%, X7R, 1210	C101, C102	GRM32DR721473KW	2	MuRata	1210	0.047uF		
Fitted	CAP, CERM, 1000 pF, X1 400 VAC/Y2 440 VAC, +/- 20%, E, TH	C104, C105, C111, C112	DE2E35A102MN3AY	4	MuRata	TH, 2-Leads, Body 7	1000pF		
Fitted	Cap Film 0.47uF 630V PP 10% Dipped 15mm 110°C Bulk	C106, C110, C124	RS231347050P3K	3	KEMET	RADIAL	470nF		
Fitted	WCAP-FTXX Film Capacitor, THT, L26W15H25, 2.2uF, 310V	C108, C109	890334026034	2	Würth Elektronik	26mm*15mm*25mm	2.2uF		
Fitted	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	C113, C120, C623	CC0402KRX7R88B10	3	Yageo	0402	0.1uF		
Fitted	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	C114	GRM185R60J105KEJ	1	MuRata	0603	1uF		
Fitted	CAP, CERM, 1000pF, 6.3V, +/-10%, X5R, 0402	C115	GRM155R60J102KAJ	1	MuRata	0402	1000pF		
Fitted	CAP, CERM, 22 uF, 16 V, +/- 20%, X5R, 0805	C116, C118, C126	C2012X5R1C226M1J	3	TDK	0805	22uF		
Fitted	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0402	C117	CC0402MRX5R68B1	1	Yageo America	0402	1uF		
Fitted	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	C119	C1608X7R1E105K08	1	TDK	0603	1uF		
Fitted	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	C122, C123, C128	CC0402C102K5RACTU	3	Kemet	0402	1000pF		
Fitted	CAP, CERM, 4700 pF, 25 V, +/- 10%, X7R, 0402	C127	CC0402KRX7R88B47	1	Yageo	0402	4700pF		
Fitted	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 1812	C130, C131	C1812W104KDRAC7	2	Kemet	1812	0.1uF		
Fitted	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	C601	GRM155R70J104KAJ	1	MuRata	0402	0.1uF		
Fitted	CAP, CERM, 0.047 uF, 10 V, +/- 10%, X5R, 0402	C603, C608, C610, C	C1005X5R1A473K05	5	TDK	0402	0.047uF		
Fitted	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	C604, C605, C606, C	CC0402KRX7R98B22	4	Yageo	0402	220pF		
Fitted	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NPO, 0402	C609, C612, C614, C	885012005055	4	Würth Elektronik	0402	10pF		
Fitted	CAP, AL, 100 uF, 25 V, +/- 20%, TH	C619	EEU-EB1E1015	1	Panasonic	6.3x11.2mm	100uF		
Fitted	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	C620	C2012X7R1E475K12	1	TDK	0805	4.7uF		
Fitted	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X5R, 0805	C621	CL21A226KQNNNE	1	Samsung Electro-M	0805	22uF		
Fitted	CAP, CERM, 2.2 uF, 25 V, +/- 20%, X5R, 0402	C622	GRM155R61E225MJ	1	MuRata	0402	2.2uF		
Fitted	Diode, Ultrafast, 600 V, 15 A, DPAK	D101, D102, D104, D	VS-15EVL06-M3/I	4	VISHAY	DPAK	600V		
Fitted	Diode, Schottky, 30 V, 0.2 A, SOD-323	D103, D106	BATS4W5-7-F	2	Diodes Inc.	SOD-323	30V		
Fitted	Diode, Ultrafast, 600V, 1A, SMA	D107	MURA160T3G	1	ON Semiconductor	SMA	600V		
Fitted	12 Position Receptacle Connector 0.050" (1.27mm) Through Hole Gold	J1, J2	M50-3000645	2	Harwin	HDR12			
Fitted	Connector Header Through Hole 3 position 0.050" (1.27mm)	J01, J3	M52-040023V0345	2	Harwin	HDR3			
Fitted	2 Position Receptacle Connector 0.050" (1.27mm) Through Hole Gold	J6, J7	M50-3030242	2	Harwin	HDR2			
Fitted	6 Position Receptacle Connector Through Hole	J8	SSW-103-02-G-D	1	SAMTEC	RCPT6			
Fitted	Board-To-Board Connector, Dual, SSW Series, 4 Contacts, Receptacle, 2.54 mm, Through Hole, 2 Rows	J9	SSW-102-02-G-D	1	Samtec	HDR4			
Fitted	Receptacle, 3x1, 5mm, R/A, TH	J101	282856-3	1	TE Connectivity	Receptacle, 3x1, 5mm, R/A, TH			
Fitted	Connector Header Through Hole 20 position 0.050" (1.27mm)	J601, J602	M52-040023V2045	2	Harwin	HDR20			
Fitted	Terminal Block, 3.5mm, 2x1, Tin, TH	J604	691214110002	1	Würth Elektronik	Receptacle, 3.5mm, 2x1, TH			
Fitted	Inductor, Buck/Boost, EDP35, TH	L1, L2	RL6493-144NL	2	Pulse	PTH_IND_36MMMO_144OuH			
Fitted	Inductor 16.2uH 12mOhm 30x14.2x3.3 TH	L103, L104	86H-22021C	2	Delta Electronics	PTH_IND_30MMMO_16.2uH			
Fitted	Common Mode Choke 2.8mH 3.8mΩ	L103	ARCDC302030E282H	1	Sunlord	PTH_30MMMO_20MMMO			
Fitted	COMMON MODE CHOKE 1mH @ 10kHz 2.4mohm 1000VAC	L106	YXS80660T	1	Yaxin Electronics	PTH_30MMMO_19MMMO			
Fitted	Inductor, Shielded, 10 uH, 1.2 A, 0.322 ohm, SMD	L601	74438336100	1	Würth Elektronik	SMD, 2-Leads, Body 10uH			
Fitted	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	N_LF_1, N_LF_2, PG	0312-0-15-15-34-27	18	Mill-Max	Pin Receptacle			
Fitted	MOSFET N-CH 650V 23A HSOF-8	Q101, Q106	1PT60R0225XTMA1	2	Infineon	HSOF-8			
Fitted	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	R1	ERI-H3G0R00V	1	Panasonic	0603	0		
Fitted	RES, 1.00, 1%, 0.1 W, 0603	R101, R104	RC0603FR-071RL	2	Yageo	0603	1.00		
Fitted	RES, 10.0, 1%, 0.1 W, 0603	R102, R111	RC0603FR-0710RL	2	Yageo	0603	10.0		
Fitted	RES, 10.0 k, 1%, 0.1 W, 0603	R103, R106	RC0603FR-0710KL	2	Yageo	0603	10.0k		
Fitted	RES, 1.00 k, 1%, 0.1 W, 0603	R105, R114	RC0603FR-071KL	2	Yageo	0603	1.00k		
Fitted	RES, 100 k, 1%, 0.25 W, 1206	R107, R108, R109, R	RC1206FR-07100KL	6	Yageo America	1206	100k		
Fitted	RES, 20.0, 1%, 0.1 W, 0603	R117	RC0603FR-0720RL	1	Yageo	0603	20.0		
Fitted	RES, 1.0k ohm, 5%, 0.063W, 0402	R118, R120, R122	CRCW04021K00JNE	3	Vishay-Dale	0402	1.0k		
Fitted	RES, 5.11, 1%, 0.1 W, 0603	R119	RC0603FR-075R11L	1	Yageo	0603	5.11		
Fitted	RES, 1.00 M, 1%, 0.063 W, 0402	R121	RC0402FR-071ML	1	Yageo America	0402	1.00Meg		
Fitted	RES, 4.3 k, 1%, 0.063 W, 0402	R601	RT0402FRE074K3L	1	Yageo	0402	4.3k		
Fitted	RES, 1.00 M, 1%, 0.25 W, 1206	R602, R603, R604, R	RC1206FR-071ML	12	Yageo America	1206	1.00Meg		
Fitted	RES, 5.11 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R609	CRCW04025K11FKJE	1	Vishay-Dale	0402	5.11k		
Fitted	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R610	CRCW040210K0FKJE	1	Vishay-Dale	0402	10.0k		
Fitted	RES, 100, 1%, 0.063 W, 0402	R611	RC0402FR-07100RL	1	Yageo America	0402	100		
Fitted	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	R616	CRCW04020000Z0EJ	1	Vishay-Dale	0402	0		
Fitted	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R617, R618, R619	CRCW040218K0FKJE	3	Vishay-Dale	0402	18.0k		
Fitted	RES, 15.0 k, 1%, 0.063 W, 0402	R620, R623, R626, R	RC0402FR-0715KL	4	Yageo America	0402	15.0k		
Fitted	Res Thick Film 0402 18K Ohm 1% 1/16W ±100ppm/°C Molded SMD Paper T/R	R625	CRCW040218K0FKJE	1	Vishay	0402	18k		
Fitted	RES, 6.19 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R632	CRCW04026K19FKJE	1	Vishay-Dale	0402	6.19k		
Fitted	RES, 1.00 k, 1%, 0.0625 W, 0402	R640	RC0402FR-071KL	1	Yageo America	0402	1.00k		
Fitted	RES, 88.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R641	CRCW040288K7FKJE	1	Vishay-Dale	0402	88.7k		
Fitted	RES, 3.00 k, 1%, 0.0625 W, 0402	R642	RC0402FR-073KL	1	Yageo America	0402	3.00k		
Fitted	RES, 22.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	R643	CRCW040222K1FKJE	1	Vishay-Dale	0402	22.1k		
Fitted	Thermistor NTC, 4.70 ohm, 20%, 15x7mm	RT1	B59451C1130B070	1	TDK	15x7mm	56		
Fitted	Test Point, Miniature, Red, TH	TP101	5000	1	Keystone	Red Miniature Testp	Red		
Fitted	Test Point, Miniature, Black, TH	TP103	5001	1	Keystone	Black Miniature Tes	Black		
Fitted	3-kVRMS Single-Channel Isolated Gate Drivers, D0008B (SOIC-8)	U1	UCC3505BDR	1	Texas Instruments	D0008B		Texas Instruments	UCC3505BDR
Fitted	High Accuracy, Hall-Effect Based Current Sensor, SOIC-16	U101	ACS724KMATR-50A	1	Allegro Microsystem	SOIC, 16-Leads, Body 10.3x7.5mm, Pitch 1.27mm			
Fitted	4A/6A Isolated Dual-Channel Gate Driver, NPL0013A (VGA-13)	U103	UCC2122SANPL	1	Texas Instruments	NPL0013A		Texas Instruments	
Fitted	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	U601	OPA376AIDBVR	1	Texas Instruments	DBV0005A			
Fitted	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	U604	TP5560430XDBVR	1	Texas Instruments	DBV0006A		Texas Instruments	TP5560430XDBVT
Fitted	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	U605	TLV431AIDBZR	1	Texas Instruments	DBZ0003A			
Not Fitted	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	R615	ERA-2AEB4871X	0	Panasonic	0402	4.87k		
Fitted	Inductor 15uH	L102, L104	86H-22054C	2	Delta Electronics		15uH		