

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value
Fitted	Printed Circuit Board	PCB1	CSU_18S_V2P3A	1	Any		
Fitted	CAP, CERM, 1 uF, 1206	C1	GCM31CR72A105KA	1	MuRata	1206	1uF
Fitted	CAP, CERM, 1 uF, 2010	C2	GCJ21BL81E105KA01	1	MuRata	0805	1uF
Fitted	CAP, CERM, 0.47 uF, 0402	C3, C8, C9	GRM155R61A474KE1	3	MuRata	0402	0.47uF
Fitted	CAP, CERM, 1 uF, 2010	C4, C28, C67	C1005X5R1E105K050	3	TDK	0402	1uF
Fitted	CAP, CERM, 0.01 uF, 0402	C5	CGA2B3X7R1H103K0	1	TDK	0402	0.01uF
Fitted	CAP, CERM, 0.22 uF, 1206	C6	CGA5H2X7R2A224K1	1	TDK	1206	0.22uF
Fitted	CAP, CERM, 1 uF, 1206	C7	GCM188R71C105KA	1	MuRata	0603	1uF
Fitted	CAP, CERM, 22 uF, 2010	C10, C14, C18	GCM21BD70J226ME	3	MuRata	0805	22uF
Fitted	CAP, CERM, 0.1 uF, 0402	C11, C12, C13, C16	GCM155R71A104KA	6	MuRata	0402	0.1uF
Fitted	CAP, CERM, 0.47 uF, 0603	C15, C17, C33, C34	GCM188R71C474KA	21	MuRata	0603	0.47uF
Fitted	CAP, CERM, 12 pF, 0402	C22, C23	C0402C120J3GACAU	2	Kemet	0402	12pF
Fitted	CAP, CERM, 2.2 uF, 0603	C24	CGA3E1X7S1C225M0	1	TDK	0603	2.2uF
Fitted	CAP, CERM, 1 pF, 5010	C25, C29, C32	GCM1555C1H1R0CA	3	MuRata	0402	1pF
Fitted	CAP, CERM, 12 pF, 0402	C26	GCM1555C1H120JA	1	MuRata	0402	12pF
Fitted	CAP, CERM, 5.6 pF, 0402	C27	GRM1555C1H5R6CA	1	MuRata	0402	5.6pF
Fitted	CAP, CERM, 4700 pF, 0402	C50, C51, C52, C53	GCM155R71H472KA	20	MuRata	0402	4700pF
Fitted	CAP, CERM, 0.1 uF, 0402	C70, C73, C83, C88	GCM155R71H104KE	13	MuRata	0402	0.1uF
Fitted	CAP, CERM, 100 pF, 0402	C74, C79, C137, C1	CGA2B2C0G1H101J0	4	TDK	0402	100pF
Fitted	CAP, CERM, 100 pF, 0603	C75, C78	GCM1885C1H101JA	2	MuRata	0603	100pF
Fitted	CAP, CERM, 0.01 uF, 0402	C77, C139	GCM188R71H103KA	2	MuRata	0603	0.01uF
Fitted	CAP 2220 1206	C80, C81, C84, C85	CC1206KKX7RCBB10	4	YAGEO	1206	0.01uF
Fitted	CAP, CERM, 0.047 uF, 0402	C82	GCM155L81C473KA	1	MuRata	0402	0.047uF
Fitted	CAP, CERM, 1000 pF, 0402	C111	GCM155R71H102KA	1	MuRata	0402	1000pF
Fitted	CAP, CERM, 3300 pF, 0402	C112	CGA2B2X7R1H332K0	1	TDK	0402	3300pF
Fitted	CAP, CERM, 10 uF, 0805	C113, C114	CGA4J1X7S1C106K1	2	TDK	0805	10uF
Fitted	CAP, CERM, 470 pF, 0402	C115	GCM155R71H471KA	1	MuRata	0402	470pF
Fitted	CAP, CERM, 2200 pF, 0402	C116	CGA2B3X7S2A222K0	1	TDK	0402	2200pF
Fitted	CAP, CERM, 2200 pF, 0805	C142, C143, C144,	GRM2165C2A222JA0	33	MuRata	0805	2200pF
Fitted	LED, Red, SMD	D1, D3	150060RS75000	2	Wurth Elektronik	LED_0603	Red
Fitted	LED, Green, SMD	D2, D12	150060VS75000	2	Wurth Elektronik	LED_0603	Green
Fitted	Diode, TVS, Uni, 85V	D4, D10	SMBJ85A-13-F	2	Diodes Inc.	SMB	85V
Fitted	SMD16PL Series 60	D13	SMD16PL-TP	1	Micro Commercial	SOD123FL	
Fitted	2.4GHz PCB Antenn	E1	ANTENNA_DN007A	1	N/A	SMD, 3-Leads	
Fitted	Fiducial mark. Ther	FID1, FID2, FID3, FI	N/A	6	N/A	N/A	
Fitted	Header (Shrouded)	J1	FTSH-105-01-F-DV-	1	Samtec	Header(Shrouded), 1.27mm, 5x2, SMT	
Fitted	Header(shrouded),	J5, J10	70551-0038	2	Molex	Header(shrouded), 2.54mm, 4x1, R/A, T	
Fitted	Connector Header	J17, J19	705550045	2	Molex	HDR11	
Fitted	Connector Header	J23	705550040	1	Molex	HDR6	
Fitted	Ferrite Bead, 1500 ohm	L1	BLM18HE152SN1D	1	MuRata	0603	1500 ohm
Fitted	Inductor, Multilayer	L2	MLZ2012N6R8LT000	1	TDK	0805	6.8uH
Fitted	Inductor, Multilayer	L3, L4	LQG15WZ2N4B02D	2	MuRata	0402	2.4nH
Fitted	Inductor, Multilayer	L5, L6	LQG15WZ2N0B02D	2	MuRata	0402	2nH
Fitted	Inductor, Shielded,	L9	NRS5030T220MMGJY	1	Taiyo Yuden	4.9x4.9mm	22uH
Fitted	Transistor, NPN, 15V	Q1	ZXTN4004KTC	1	Diodes Inc.	DPAK	150 V
Fitted	MOSFET, N-CH, 60V	Q2, Q3, Q4, Q5	2N7002W-7-F	4	Diodes Inc.	SOT-323	60V
Fitted	RES, 60.4, 1%, 0.1 W	R1	CRCW060360R4FKEA	1	Vishay-Dale	0603	60.4
Fitted	RES, 10.0 k, 1%, 0.06 W	R2, R3, R10, R14, R	CRCW040210K0FKED	22	Vishay-Dale	0402	10.0k
Fitted	RES, 100, 1%, 0.75 W	R4	CRCW2010100RFKEF	1	Vishay-Dale	2010	100
Fitted	RES, 200, 1%, 0.75 W	R5	CRCW2010200RFKEF	1	Vishay-Dale	2010	200
Fitted	RES, 100 k, 1%, 0.06 W	R7, R15, R16, R98, R	CRCW0402100KFKEE	7	Vishay-Dale	0402	100k
Fitted	RES, 0, 5%, 0.125 W	R9, R13, R23, R142	CRCW08050000Z0EA	4	Vishay-Dale	0805	0
Fitted	RES, 3.3 k, 5%, 0.063 W	R11, R19, R134, R1	CRCW04023K30JNEE	5	Vishay-Dale	0402	3.3k
Fitted	RES, 100 k, 5%, 0.06 W	R21	CRCW0402100KJNEE	1	Vishay-Dale	0402	100k
Fitted	RES, 53.6, 1%, 0.25 W	R24, R27, R29, R31	CRCW120653R6FKEA	19	Vishay-Dale	1206	53.6
Fitted	RES, 54.9, 1%, 0.25 W	R25, R28, R30, R32	CRCW120654R9FKEA	19	Vishay-Dale	1206	54.9
Fitted	RES, 75.0, 1%, 0.1 W	R26, R88, R102, R1	CRCW060375R0FKEA	4	Vishay-Dale	0603	75.0
Fitted	RES, 0, 5%, 0.1 W, 0402	R43, R60, R89, R90	RC0603JR-070RL	12	Yageo	0603	0
Fitted	RES, 150, 1%, 0.1 W	R61, R62, R105, R1	CRCW0603150RFKEA	4	Vishay-Dale	0603	150
Fitted	RES, 1.00 k, 1%, 0.06 W	R69, R70, R71, R72	CRCW04021K00FKED	19	Vishay-Dale	0402	1.00k
Fitted	RES, 0, 5%, 0.063 W	R94	CRCW04020000Z0EE	1	Vishay-Dale	0402	0
Fitted	RES, 510 k, 5%, 0.06 W	R97	CRCW0402510KJNEE	1	Vishay-Dale	0402	510k
Fitted	RES, 20.0 k, 1%, 0.06 W	R110	CRCW040220K0FKED	1	Vishay-Dale	0402	20.0k
Fitted	RES, 511, 1%, 0.063 W	R140	CRCW0402511RFKEE	1	Vishay-Dale	0402	511
Fitted	RES, 10.0, 1%, 0.063 W	R143, R144	CRCW040210R0FKED	2	Vishay-Dale	0402	10.0
Fitted	RES, 1.0, 5%, 0.063 W	R171	CRCW04021R00JNEE	1	Vishay-Dale	0402	1.0
Fitted	RES, 402 k, 1%, 0.06 W	R176	CRCW0402402KFKEE	1	Vishay-Dale	0402	402k
Fitted	RES, 221 k, 1%, 0.06 W	R178	CRCW0402221KFKEE	1	Vishay-Dale	0402	221k
Fitted	Thermistor NTC, 10k	RT1	NTCG163JF103FT1A	1	TDK	0603	10k
Fitted	DIP Switch, SPST, 6Pin	S1, S2, S3	TDA06H0SB1	3	C&K Components	8.75x6.2mm	
Fitted	Switch, SPST, Slide,	S4	219-3MST	1	CTS Electrocompor	6.7x9.09mm	
Fitted	Switch, SPST, Off-On	S5	416131160802	1	Wurth Elektronik	5.6x3.58mm	
Fitted	Terminal, Turret, TH	TP3	1598-2	1	Keystone	Keystone1598-2	
Fitted	Test Point, Multipur	TP6, TP11, TP15	5012	3	Keystone	White Multipurpose Testpoint	
Fitted	Automotive Nano I	U1	TPS3436BDADADDF	1	Texas Instruments	SOT-23-8	
Fitted	BQ79718-Q1	U2	BQ79718-Q1	1	Texas Instruments	Power PAD_TQFP64	
Fitted	Single Output Auto	U3	TPS71533QDCKRQ1	1	Texas Instruments	DCK0005A	
Fitted	Low-Capacitance 6V	U4	TPD6E004RSER	1	Texas Instruments	RSE0008A	
Fitted	SimpleLink(TM) Blu	U5	CC2662R1FRGZT	1	Texas Instruments	RGZ0048A	
Fitted	Automotive 4-Bit F	U6	TXU0204QPWRQ1	1	Texas Instruments	TSSOP14	
Fitted	Automotive, High S	U7	ISO7741FQDWRQ1	1	Texas Instruments	DW0016B	
Fitted	24-V, 2-Channel E	U10, U13	ESD2CAN24DBZR	2	Texas Instruments	SOT-23-3	
Fitted	0.3-A, 120-V, Step	U12	LM5168FQDDARQ1	1	Texas Instruments	HSOIC8	
Fitted	Crystal, 48 MHz, 10	Y1	CX2016DB48000C0F	1	Kyocera	2x1.6mm	
Fitted	Crystal, 32.768 kHz	Y2	FC-13A 32.7680KA-A	1	Epson	3.2x1.5mm	32.768000kHz 9 +2
Not Fitted	CAP, CERM, 12 pF, 0402	C21, C128	GCM1555C1H120JA	0	MuRata	0402	12pF
Not Fitted	CAP, CERM, 1 pF, 5010	C30, C31	GCM1555C1H1R0CA	0	MuRata	0402	1pF
Not Fitted	CAP, CERM, 0.47 uF, 0603	C48, C95, C96, C13	GCM188R71C474KA	0	MuRata	0603	0.47uF
Not Fitted	CAP, CERM, 0.1 uF, 0402	C68, C69, C86, C87	GCM155R71H104KE	0	MuRata	0402	0.1uF
Not Fitted	CAP, CERM, 220 pF, 0402	C76, C136, C138, C	CGA2B2X7R1H221K0	0	TDK	0402	220pF
Not Fitted	CAP, CERM, 4700 pF, 0402	C100, C102, C104,	GCM155R71H472KA	0	MuRata	0402	4700pF
Not Fitted	CAP, CERM, 0.22 uF, 1206	C103, C110	CGA5H2X7R2A224K1	0	TDK	1206	0.22uF

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value
Not Fitted	CAP, CERM, 2200 p	C117, C118, C119,	GRM2165C2A222JA0	0	MuRata	0805	2200pF
Not Fitted	CAP, CERM, 0.01 uF	C152, C155, C158,	GCM188R71H103KA	0	MuRata	0603	0.01uF
Not Fitted	Diode, TVS, Uni, 85V	D5	SMBJ85A-13-F	0	Diodes Inc.	SMB	85V
Not Fitted	SMD16PL Series 60V	D6	SMD16PL-TP	0	Micro Commercial	SOD123FL	
Not Fitted	Diode, TVS, Uni, 85V	D7, D8	SMAJ85A	0	Littelfuse	SMA	85V
Not Fitted	Diode, Superfast Rect	D9	ES1C-13-F	0	Diodes Inc.	SMA	150V
Not Fitted	SMA Connector Jack	J2	60312102114405	0	Wurth Electronics	CONN_SMA	
Not Fitted	Header, 0.5mm, 6x1	J3	22124062	0	Molex	Header, 0.5mm, 6x1, R/A, TH	
Not Fitted	Header, 100mil, 10x1	J4	TSW-110-07-G-D	0	Samtec	10x2 Header	
Not Fitted	Header, 100mil, 2x1	J6, J9, J11	PEC02SAAN	0	Sullins Connector S	Header, 2 PIN, 100mil, Tin	
Not Fitted	Header, 100mil, 5x1	J7	TSW-105-08-G-D-R	0	Samtec	Header, 5x2, 100mil, R/A	
Not Fitted	Header, 100mil, 5x1	J8	TSW-105-07-G-S	0	Samtec	5x1 Header	
Not Fitted	Header, 100mil, 16x1	J25	TSW-116-07-G-S	0	Samtec	16x1 Header	
Not Fitted	Coupled inductor, 510uH	L7, L8	ACT45B-510-2P-TL0	0	TDK	SMD, 4-Leads, Bod	51uH
Not Fitted	RES, 10.0 k, 1%, 0.06W	R6, R12, R20	CRCW040210K0FKED	0	Vishay-Dale	0402	10.0k
Not Fitted	RES, 0, 5%, 0.1 W, 0603	R8	RC0603JR-070RL	0	Yageo	0603	0
Not Fitted	RES, 100, 1%, 0.25 W	R96	CRCW1206100RFKEA	0	Vishay-Dale	1206	100
Not Fitted	RES, 510 k, 5%, 0.06W	R99	CRCW0402510KJNEB	0	Vishay-Dale	0402	510k
Not Fitted	RES, 0, 5%, 0.063 W	R117, R180	CRCW04020000Z0ED	0	Vishay-Dale	0402	0
Not Fitted	RES, 0, 5%, 0.125 W	R126, R127, R128, R	CRCW08050000Z0EA	0	Vishay-Dale	0805	0
Not Fitted	RES, 0, 5%, 0.1 W, 0603	R160, R173	CRCW06030000Z0EA	0	Vishay-Dale	0603	0
Not Fitted	Automotive ±1% tolerance	RT2	TMP6131QDECRQ1	0	Texas Instruments	0402	
Not Fitted	LAN Transformer F	T1, T2	ALTWR-C29TF	0	Sunlord	XFRMR_9MM2_9MM7	
Not Fitted	Test Point, Multipur	TP1, TP7, TP9, TP12	5012	0	Keystone	White Multipurpose Testpoint	
Not Fitted	Terminal, Turret, TH	TP2	1598-2	0	Keystone	Keystone1598-2	
Not Fitted	I2C-Compatible (2-wire)	U9	AT24C02C-STUM-T	0	Microchip	SOT-23-5	

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