

Qty	REF. DESIGNATOR	Description	Value	Volt.	Tol.	Watt.	Mount Type	Manufacturer	Package	Reference
1	ST1	3PTS V M BAR PITCH 2.54					TH	ANTELEC		A60-254-03-7G
1	C11	TAJA TANTAL SMD CAP	4.7µF	10V	10%		SMD	AVX	TAJ-A	TAJA475K010R
5	C19-C23	CERAMIC SMD CAP (X7R)	100nF	16V	10%		SMD	AVX	0603	0603YC104KAT
3	C16, C26-C27	CERAMIC SMD CAP (X7R)	100nF	50V	10%		SMD	AVX	0805	08055C104KAT
1	C9	293D TANTAL SMD POL CAP	1µF	16V	10%		SMD	SPRAGUE	293D-A	293D105X9016A
1	C28	293D TANTAL SMD POL CAP	2.2µF	35V	10%		SMD	SPRAGUE	293D-C	293D225X9035C
1	C18	293D TANTAL SMD POL CAP	10µF	35V	10%		SMD	SPRAGUE	293D-D	293D106X9035D
1	C3	GRM39 CERAMIC SMD CAP (COG)	220pF	50V	5%		SMD	MURATA	0603	GRM1885C1H221KA01D
2	C2, C6	GRM39 CERAMIC SMD CAP (COG)	150pF	50V	5%		SMD	MURATA	0603	GRM1885C1H151KA01D
1	C17	GRM39 CERAMIC SMD CAP (COG)	15pF	50V	5%		SMD	MURATA	0603	GRM1885C1H150KA01D
2	C7-C8	GRM39 CERAMIC SMD CAP (COG)	10pF	50V	5%		SMD	MURATA	0603	GRM1885C1H100KA01D
2	C10, C12	GRM39 CERAMIC SMD CAP (X7R)	10nF	50V	10%		SMD	MURATA	0603	GRM1887R1H103KA01D
1	C5	GRM39 CERAMIC SMD CAP (X7R)	1nF	50V	10%		SMD	MURATA	0603	GRM188R71H102KA01D
1	C24	GRM40 CERAMIC SMD CAP (X7R)	4.7nF	50V	10%		SMD	MURATA	0805	GRM216R71H472JA01D
2	C13-C14	GRM40 CERAMIC SMD CAP (COG)	20pF	50V	5%		SMD	MURATA	0805	GRM2165C1H200JA01L
2	C15, C29	CERAMIC SMD CAPACITOR (X7R)	100nF	25V	10%		SMD	AVX	0603	06033C104KAT2A
1	U1	ARM BASED 32BIT SMD MCU					SMD	STMicroelectronics	LQFP48	STM32F103CBT6TR
1	U2	CR95HF SMD CIRCUIT					SMD	STMicroelectronics	QFN32	CR95HF-QFN32
1	J3	HE10 M V LOW PROFILE 20P					TH	3M		2520-6002-UG
0	not implemented	SIM CARD CONNECTOR					SMD	ITT CANNON		CCM03-3504LFT-R122
1	J1	USB SOCKET TYPE B					TH	MOLEX		67068-0000
1	L2	SMD FERRITE			25%		SMD	WURTH ELEKTRONIK	0805	742792093
1	L4	FERRITE CHIP BEAD 600 OHM					SMD	MURATA		BLM18AG601SN1
1	LED1	SMD RED LED (20mA)					SMD	STANLEY		BR1102W
1	Y1	SMD CRYSTAL OSCILLATOR	8MHz				SMD	FOX ELECTRONICS		HC49SD
1	X1	CRYSTAL SMD	27.12MHz				SMD	NDK	2,5X2mm	NX2520SA
1	R15	RC12H SERIES RESISTOR (0805)	47K		1%	0.125W	SMD	PHILIPS	0805	RC12H-47K-0805
2	R9-R10	RC22H SERIES RESISTOR (0603)	10		1%	0.063W	SMD	PHILIPS	0603	RC22H-10U-0603
2	R1, R5	RC22H SERIES RESISTOR (0603)	330		1%	0.063W	SMD	PHILIPS	0603	RC22H-330U-0603
1	R11	RC22H SERIES RESISTOR (0603)	1.5K		1%	0.063W	SMD	PHILIPS	0603	RC22H-1K5-0603
5	R4, R24-R27	RC22H SERIES RESISTOR (0603)	3.3K		1%	0.063W	SMD	PHILIPS	0603	RC22H-3K3-0603
11	R6-R7, R13, R16-R23	RC22H SERIES RESISTOR (0603)	10K		1%	0.063W	SMD	PHILIPS	0603	RC22H-10K-0603

2	R3, R8	RC22H SERIES RESISTOR (0603)	1M		1%	0.063W	SMD	PHILIPS	0603	RC22H-1M-0603
1	R14	RC12H SERIES RESISTOR (0805)	36K		1%	0.125W	SMD	PHILIPS	0805	RC12H-36K-0805
2	L1, L3	CRCW SERIES RESISTOR (0805)	0			0.125W	SMD	VISHAY	0805	CRCW0805000Z
1	R2	RC SERIES RESISTOR (0603)	604		1%	0.1W	SMD	YAGEO	0603	RC0603-604R-1%
1	S1	SMD BLACK PPS PUSH SWITCH 4PTS					SMD	TYCO ELECTRONICS		4-1437565-1
1	REG1	3.3V VOLTAGE REGULATOR	3.3V	3.3V		0W	SMD	STMicroelectronics	DPAK	KF33BDT
2	Q1-Q2	NPN AMPLIFIER	45V	45V		300mW	SMD	MULTICOMP	SOT23	BC817-16
2	C1, C4	(0603-OPEN) CERAMIC SMD CAP					SMD		0603	
1	R12	SMD RESISTOR (0603-OPEN)					SMD		0603	
4	B1-B4	BUMPON PROTECTIVE PRODUCT					SMD	3M		SJ5306