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	10µF	CAP CER 10UF 25V XSR 1206	C1, C2, C3, C4, C5, O6	6	1		1	DigKey	490- GRM319R61E106MA12DC		
		CAP CER 10UF 16V	C7. C11. C15. C19.						T-ND 311-1822-1-ND		
	10µF	X5R0603 CAP CBR 1UF 16V	C23, C52 C8, C12, C14, C18,					DigKey			
	1µF	X7R0603	C22	5				DigKey	490-12657-1-ND		
	0.1 µF	CAP CER 0.1UF 25VX7R0603	C9, C10, C13, C17, C21	5	1			DigKey	399-13148-1-ND		
	47μF	CAPCER47UF25V X5R1206	C16, C20, C24	3				DigKey	490-16268-2-ND		
			C25, C26, C27, C28, C29, C30,								
	0.1 µF	CAP CER 0.1UF	C31, C32, C34,	14	1			DigKey	399-		
	о.тр	6.3VX5R0402	C37, C38, C39, C40, C41, C45,		1			Digray .	00402C104M8PAC7867C T-ND		
		CAPCER IUF 6.3V	062								
	1µF	XSR0402 CAP CER 2.2UF	C33, C42, C46	3				DigKey	490-10006-1-ND		
	2.2µF	10V3/5R0402	C35, C36	2				DigKey	732-7490-1-ND		
	20pF	CAP CER 20PF 10V NP0 0402	C43, C44	2				DigKey	399-14429-1-ND		
	10uF	CAP CER 10UF 10V	C47	-				DigKey	490-12734-1-ND		
	-	X5R0603	<u> </u>					-97	490-		
	22μF	CAP CER 22UF 16V X6S0603	C48	1				DigKey	GRM188C61C226MED1W CT-ND		
	0.1 µF	CAPCER0.1UF	C49	- 1				DigKey	732-7965-1-ND		
		16VX7R0603 CAP CER 20PF 10V							300-		
	20pF	X8R0603	OS0, OS1	2	1			DigKey	00609C200G8HAC7867C T-ND		
	1µF	CAP CER 1UF 10V	CS3					DigKey	490- GRM155Z71A105KB01JCT-		
	1μ-	X7R0402		,				DgRey	ND		
	0.1 µF	CAP CER 0.1UF 10V X7R0402	C54, C56	2				DigKey	732-7513-1-ND		
	47 pF	CAP CER 47PF 25V	C56					DigKey	399- 03402C470JBGACAL/TOC		
	4/pr	C0G/NP0 0402	C56	١ '				DgRey	T-ND		
	10000pF	CAP CER 10000PF	C57	1				DigKey	587-1094-1-ND		
	P49MA18AE3/61	16V0603 TVSDIODE15.3V	D1		l		l	DigKey	P49MA18AE3/61GICT		
	BZ84C12T7-F	25.2V DO214AC DIODEZENER12V	D2	<u> </u>				DigKey	ND		
		150MW SOT523 DIODESCHOTTRY		1					BZ984C12T-7-FDICT-ND		
	MBRS130LT3G	30V2A9MB	D3	1				DigKey	MBRS130LT9GOSCT-ND		
	MMSZS226C-E3- 08	DIODEZENER3.3V 500MW/SOD123	D4	1				DigKey	MMSZS226C-E3-08GICT- ND		
	1 kOhms @ 100	500MWSOD123 FERRITEBEAD1K	FB1					DigKey	490-1007-1-ND		
	MHz BSC027N04LSGAT	OHMO4021LN MOSFETN-CH40V				 	l		BSO027N04LSGATMA1CT-		
	BS0027N04LSGAT MA1	MOSFETN-CH40V 24A/100A/TDSON	IC1	1	ĺ		1	DigKey	BSO27N04LSGATMA1CT- ND		
		ICREGLINEAR					l	L			
	LD1117S33TR	3.3V800MA 907223	IC2	1			1	DigKey	497-1242-1-ND		
	XT90 Connector	907223 U-Pobattery	Ji	1							
		connector TERMBLOCKHOR	—			 	l				
	0395021002	2POS90DEG 3.5MM	J2, J3, J4	3	1		1	DigKey	WM7770-ND		
	10033526-	CONNECPTMINI	l					L			
	N3212LF	USBB5POSSMD RA	J5	1				DigKey	609-4700-2-ND		
	302-5201	CONNHEADER VERT20POS	JB					District.	ED10624-ND		
	302-0201	2.54MM	J.D.					DigKey	ED10024-ND		
	0732511290	CONN SWAJACK STR500HM EDGE	J.	,				DigKey	VM9461-ND		
		MNT CONN SMARCET						-97			
	0732511150	CONN SMARCPT STR50OHM EDGE	.8	1				DigKey	WM6534-ND		
		MNT CONNHEADER						-			
	0022272041	VERT4POS	.a	1				DigKey	WM4113-ND		
		2.54MM EXEDIND27NH									
	27 nH	350MA 0.46CHM	L1	1				DigKey	490-LQG15HZ27NJ02DCT- ND		
	10 kOhms	9MD RES9MD 10KOHM	R1					DiaKey	13-AA0603FR-0710KLCT-		
		1% 1/10W0603 RES30KOHM1%		,				. ,	ND 13-RC0402FR-1330NLCT-		
	30 kOhms	1/16W0402	R2, R3, R4	3				DigKey	ND		
	10kOhms	RES10KOHM	RS, R7, R9, R10,	5				DigKey	2019-		
		0.5%1/10W0402 BES10KOHM	R16						RK73H1ETIP1002DCT-ND 13RP0402BRD0710KLCT-		
	10kOhms	0.1%1/16W0402	R6, R13	2	1			DigKey	ND		
	100kOhms	RES100KOHM	R8					DigKey	13- RP0402BRD07100KLCT-		
	IOOAOIIII	0.1%1/16W0402	10					Ligray	ND		
	100 Ohms	RES100 CHM 0.1%1/16W0402	R11	1				DigKey	13- RP0402BRD07100RLCT-		
		RESSMD00HM							ND		
	0 Ohms	JJMPER1/4W	R12	1				DigKey	541-3032-1-ND		
		1206 RES10 CHM5%									
	10 Chms	1/16W0402 RESSMD 100K	R14	1				DigKey	311-10JRCT-ND		
	100kOhms		R15					DigKey	13-A40603FR-07100KLCT-		
		0603 RES2.2KOHM1%		·					ND		
	2.2kOhms	1/16W0402	R17, R18, R19, R20	4				DigKey	311-2.20KLRCT-ND		
	1-1977223-9	SWITCH TACTILE SPST-NO0.05A	S1, S2					DigKey	1-1977223-9-ND		
	. 10112459	24V						-Gran)	at reason MD		
	DRV8871DDA	Unipolar Motor Driver NMOSPWM	U1, U2, U3	3			1	1			
		8-SOPowerPad ARM Cortex-M4:32	<u> </u>				ļ				
		bit MCU+FPU, 210	1	l	ĺ		1	1			
	STM32F407VGT6T	DMIPS, 1024 kB Flash, 192 kB Internal RAM, 82	1	l	ĺ		1	1			
	R	Internal RAM, 82	U4	1	I		l	Digi-Key	STM32F407VGT6TR-ND		
		Marinal RAM, 82 MOs, 100-pin LOFP, -40 to 85	1	l	ĺ		1	1			
		degC, Tape and Real	1	l			1	1			
		AFM/EConselfA/S									
		STMS2F1 Microcontroller IC	1	l	ĺ		1	1			
	STM32F103C8T6	32-Bit 72MHz 64KB	US	1	ĺ		1	1			
		(64Kx8) FLASH 48- LOFP (7x7)	1	l	ĺ		1	1			
		RETXRXMODULE	-	-	 		 	-			
	RA-08H-915	915MHZ LORAWAN	U6	1	ĺ		1	1			
		General ISM e			l		l				
		1GHzLoRa™	1	l	ĺ		1	1			
	RA-02	Transceiver Module 410MHz –	U7	1	ĺ		1	1			
		SOSMHI Antonno	1	l	ĺ		1	1			
		Not Included, I-PE Surface Mount	1	l	ĺ		1	1			
	1	MAX.M10 RF						i			
		Receiver BeiDou, Galileo, GLONASS,	1	l	ĺ		1	1			
		GPS GNSS	1	l	ĺ		1	1			
			U8	1	ĺ		1	1			
	MAXM10S-00B	GPS GNSS 1.561GHz, 1.575GHz,	ı	l	ĺ		1	1			
	MAXAM10S-00B	1.602GHz-			I		1	1			
	MAXAM10S-00B	1.602GHz - 167dBm 021 Skhoo Nor				I .		—			
	MAXAM10S00B	1.602GHz - 167dBm 021 Skhoo Nor									
	MAXM10S-00B	1.602GHz- 167dBm 921.6kbps Not Included Module Moslet Array 20V	us	,							
		1.602GHz- 167dBm 921.6kbps Not Included Module Mosfet Array 20V 1.34A, 1.14A 1.12W Surface Mount SOT-26	us	1							
		1.602GHz- 167dBm 921.6kbps Not Included Module Mosfet Array 20V 1.34A, 1.14A 1.12W Surface Mount SOT-26	LID	1							
	DMC2700UDM-7	1.602GHz- 167dBm 921.6kbps Not Included Module Mosfet Array 20V 1.34A, 1.14A 1.12W Surface Mount SOT-26 Buffer, Non- Investing 2 Sympos		1							
	DMC2700UDM-7	1.602GHz- 167dBm 921.6kbps Not Included Module Module Array 20V 1.34A, 1.14A 1.12W Surface Mount SOT-26 Buffer, Non- Inserting 2 Element 1 Bit per Bernent Open Drain Output	Lis Liso	1							
	DMC2700UDM-7	1.602cHz- 167dBm 921.5kitpa Not Included Module Model Areay20V 1.344, 1.14A 1.12W Surface Mount SOT-28 Buffer, Non- Inserting 2 Bernard 1 Bit par Bernard 1 Bit par Bernard SC-88 (SC-70-6)		1							
	DMC2760UDM-7 NC7VXXX7P6X	1.602cHz- 167dBm 921.5kitpa Not Included Module Model Areay20V 1.344, 1.14A 1.12W Surface Mount SOT-28 Buffer, Non- Inserting 2 Bernard 1 Bit par Bernard 1 Bit par Bernard SC-88 (SC-70-6)	U10	1							
	DMC2700UDM-7	1.60/GHz- 167/Glm 921.6kbps Not Included Medule Model Areny/20V 1.34A, 1.14A 1.12W Surface Mount SDT-28 Buffer, Non- Inverting 2 Bernent 1 Bit per Bernent 1 Bit per Bernent 9Cen Drain Outpus 9C-88 (9C-70-6) Hall Effect Sensor Angle Bessmal Mignet, Not		1							
	DMC2700UDM-7 NC7W207P6X ASS048B-HTSP-	1.60/20Hz- 167/Gbm oz 1.60 kgb not 167/Gbm oz 1.60 kgb Module Model Areny 20V 1.34A, 1.14A 1.12W Surface Moure SOT-36 Buffer, Non- Inserting 2 Berment 188 par Berment Qpen Drain Output SC-88 (SC-70-6) Hall Biflect Sansor Angle Exemnal	U10	1				DigKey	887-2475-1-ND		