













Comment	Description	Designator	Footprint	LibRef	Quantity	Manufacturer Part Number 1	Supplier Part Number 1
RF-901-143-6FRX	CONN, JACK, SMA, FEMALE, SOOHM,	AN1, AN2, AN3, AN4	AMPHENOL-901-143- GRFX	RF-901-143-6FRX			ARFX1232-ND
	R/A, GOLD, TH CONN, JACK, UMCC,		GREX.				
1909763-1	MALE, SOOHM, U.FL,	AN5, AN6, AN7, AN8	U.FL UMCC JACK	LIMICC	4		A118077CT-ND
BLD032SM-BT-GTR	BATTERY HOLDER COIN 20MM SMD	BT1	FP-BLD032SM-BT-GTR- MFG	CMP-136216-000002-	1		
	CAP. CER. 10.UF. 25V.	C1, C5, C6, C7, C8,					963-
CAP_0805_10UF_25V	10%, XSR, 0805	C13, C14, C56, C58, C60, C62, C87, C89 C2, C9, C10, C11, C12, C15, C16, C17, C18.	CAPC201ZX14N	CAP_0805_10UF_25V	13		TMK21288J106KG T
CAP_0402_0.1UF_50V	CAP, CER, 0.1UF, 50V, 10%, X7R, AEC-0200, 0402	C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C57, C59, C61, C63, C66, C77, C78, C79, C80, C81,	CAPC1005X06N	CAP_0402_0.1UF_50V	33		445-6999-1-ND
CAP_0603_0.01UF_50	CAP, CER, 0.01UF, 50V. 10%, X7R, 0603	C82, C83, C88, C90 C3, C4, C67, C76	CAPC1608X10N	CAP_0603_0.01UF_50			399-1091-1-ND
V CAP_0603_0.1UF_50V	CAP, CER, 0.1UF, 50V,	C19, C21	CAPC1608X10N	CAP 0603 0.1UF 50V			399-5089-1-ND
	10%, X7R, 0603 CAP, CER, 0.033UF, 50V, 10%, X7R, AEC-						+
OGAZB3XSR1H333X05 OBB	50V, 10%, X7R, AEC- 0200, 0402	C20, C22	CAPC1005X06N	CAP_0402_0.033UF_5 OV	2		445-12207-1-ND
CAP_0805_1UF_25V	Q200, 0402 CAP, CER, 1.0UF, 25V, 10%, XSR, 0805	C54, C91	CAPC2012X14N	CAP_0805_1UF_25V	2		478-1409-1-ND
GRT188R61E106ME13	CAP, CER, 10.UF, 25V, 20%, XSR, AEC-0200.	C55, C92	CAPC1608X10N	CAP 0603 10UF 25V			490-12323-6-ND
D	0603 CAP, CER, 1.0UF, 50V,	L33, CW	CAPC IOUSKIUN	CAP_0803_100F_25V			490-12323-0-ND
CAP_0805_1UF_50V	10%, X7R, 0805	C65, C84	CAPC2012X14N	CAP_0805_1UF_50V	2		490-10675-1-ND
CAP_0805_22LF_16V	CAP, CER, 22.UF, 16V, 20%, XSR, 0805	C72, C73, C74, C75	CAPC2012X14N	CAP_0805_22UF_16V	4		490-9952-1-ND
CAP_0603_22PF_50V	CAP, CER, 22.PF, 50V, 5%, NPO, 0603	C85, C86	CAPC1608X10N	CAP_0603_22PF_50V	- 2		399-1053-1-ND
DFLZ39-TP	DIO, ZENER, DFLZ39, 39V, 5%, TW, SOD123FL	D1, D2, D3	S00FL370X135-2N	DFLZ39	3		DFLZ39-TPMSDKS ND
RED	LED, RED, SML- LXD603, 63SNM, 2V, 20MA, D603	D4, D9, D10, D11, D12, D13, D14	DIOMT608X06N	SMTLED_RED_0603_S ML	1		67-1548-1-ND
BAT54SW	DIO, SCHOTTKY, BAT54S, DUAL SERIES, 30V, 200MA, SC-70	D5, D6, D7, D8	SOT65P210X110-3N	BATS4SW	4		BAT54SWQ-7- FDICT-ND
SMCI6-5CA	DIO, TVS, SMCJ6.5, 6.5V, BIDIR, 1.5KW,	D15, D16, D17, D18	DIOM6959X26N	SMCI6-5CA	4		SMC36.5CALFCT- ND
FUSE_0603_2.00A	SMC FUSE SLOW 2:00A 32V	FI	FUSM1608X60N	FUSE_0603_2.00A	<u> </u>	-	SF-0603S200-2CT-
	M 0603 FER, 220 OHM,				<u> </u>	-	ND
MPZ1608_2200HM_0 603 BMP388	100MHZ, 2.2A, 0.050HMDC, MPZ1608, 0603 Integrated Circuit	FB2, FB3	INDC1608XD9N BMP388	MP21608_2200HM_0 603 BMP388	2		445-1565-1-ND
PJ-002A	CONN, JACK, PJ- 002A, 2 TXS SMM, 24V 2 SA, R/A TH, SPST-NC	ıı	CUI_P3-002A	P3-002A	1		CP-002A-ND
39-30-1060	CONN, HDR, 2X3, R/A, 4.2MM, TH, MINI-	12	39-30-1060	39-30-1060	,		WM14977-ND
USB_B_1734035	FIT JR CONN, REC, USB, R/A, MINI, TYPE B, 5 POS, SMT W/BRD GUIDE	13	USB_1734035	USB_B_1734035	1		A31727CT-ND
473461001	CONN, REC, USB, R/A, MICRO, TYPE B, 5	14	USB 47346-1001	USB_B_473461001	,		WM11228CT-ND
JUMPER 3PIN	POS, SMT FLANGELESS CONN, HDR, 1X3,	JP1.JP2	3PINV-100	JUMPER 3PIN			SAMTITISE.07.ND
	VERT, .1, JUMPER, TH IND, PWR, 10.uH,						PM124SH-100M-
PM124SH-100M-RC	20%, 4A, 0.04DCR, 12.5X12.5MM, SHLD	11,12	IND_PM124SH	PM124SH-100M-RC	1		RCCT-ND
MOD, FPGA, AC7100	MOD, FPGA, AC7100 PCIE x4Edge	P1	ALINX_FPGA	ALINX_FPGA	1		
PClex4	Connector, Or CAD	P2	PCIE_4LANE_EDGE	PClex4	1		
ERJ-3EKF2000V	Symbol,NC RES, 200 OHM, 1%, 1/10W, TF, 0603	R1, R28, R29, R30, R31	RESC160BX50N	RES_0603_200	5		P200HCT-ND
ERJ-3EKF4702V	RES, 47K, 1%, 1/10W,	R2, R3, R4	RESC160BX50N	RES_0603_47K	3		P47.0KHCT-ND
ERJ-3EKF2612V	TF, 0603 RES, 26.1K, 1%,	RS	RESC160BX50N	RES_0603_26.1K	ļ ,		P26.1KHCT-ND
ERJ-3EKF1002V	1/10W, TF, 0603 RES, 10K, 1%, 1/10W,	R6, R7, R27, R32, R33,	RESC160BX50N	RES_0603_10K			P10.0KHCT-ND
ERJ-3EKF2201V	TF, 0603 RES, 2.2K, 1%, 1/10W,	R42, R43 R8, R9	RESC160BX50N	RES_0603_2.2K	· .		P2.20KHCT-ND
GPS2TX	TF, 0603 Resistor	R10	J1-0603	Res3	-		12.200101-160
MACTX	Resistor Resistor	R11 R12	J1-0603 I1-0603	Res3			
MACRX MACPPSI	Resistor Resistor	R13 R14	J1-0603 J1-0603	Res3 Res3			
MACPPSO	Resistor	R15	J1-0603	Res3			
Mactom Macpps	Resistor Resistor	R16, R36 R17	J1-0603	Res3 Res3	1		
CRCW080533R0FKEA	RES, 33 OHM, 1%, 1/8W, TF, 0805	R18, R19, R20, R21	RESC2012X50N	RES_0805_33	4		541-33.00CT-ND
ERJ-3EKF470TV	RES, 4.7K, 1%, 1/10W, TF, 0603	R22	RESC160BX50N	RES_0603_4.7K	1		P4.70KHCT-ND
ERJ-2GEOROOK	RES, O. OHM, 1%, 1/16W, TF, AEC-Q200, 0402	R23, R24	RESC1005X04N	RES_0402_0	- 1		PO.DICT-ND
ERJ-288F-4990X	RES, 499. OHM, 1%, 1/16W, TF, AEC-Q200, 0407	R25, R26	RESC1005X04N	RES_0402_499	2		P499LCT-ND
ERJ-3EKF1001V	RES, 1.0K, 1%, 1/10W, TF, 0603 FH140	R34, R35	RESC1608X50N	RES_0603_1.0K	2		P1.00KHCT-ND
Screw_2.9	Screw Diameter 2.9mm SW, SPST-NO, TACT,	51, 52, 53, 54	MH_250H125	screw_0	4		
B3U-1000P	12V, 50MA, 3X2.5MM SMT, B3U SERIES	55, 56	OMRON-83U-1000P	B3U-1000P			SW1020CT-ND
L101011MS02Q	SW, SPST, 250V, 2A, SLIDE, ON-OFF, TH	SW1	L101011MS02Q	L101011MS02Q	1		CKC5106-ND
MP148205-LF	IC, DC/DC, MP1482DS, >4.79VIN, 0.923-15V OUT, SOICB	U1, U2	5010127P600X175-8N	MP14820S	1		1589-1524-1-ND
DS32315N	Extremely Accurate I2C-Integrated Real- Time Clock/TCXO/Crystal	U3	W16H2_L	CMP-0254-00293-1	,		
	16-Pin SO, -40 to 85 degC CONN, HDR, ZKS,						
HTST-105-01-L-DV-A	VERT, O. TIN SHROUDED, SMT, HTSH SERIES IC, TCVR, FT230, USB	U5	SAMTEC_HTST-105-01- L-DV-A	SAMTEC-HTSH-105-01- L-DV	1		SAM8809-ND
FT2300S-R	TO UART, 5V, FTDI, 165SOP	U6, U16	SOP64P600X170-16N	FTZ30XS-R			768-1135-1-ND
BN/0080	MOD, IMU, 5.2X3.8, SMT	UB SU	LGA-28	BN0080	1		1888-1000-1-ND
RCB-F9T	MOD, GPS	U9, U14	RCB-F9T	RCB-F9T			672-RCB-F91-ND
MAC-SA5X	MOD, MAC, MAC- SASX, ATOMIC CLOCK Quantum(TM)	U10	MAC-SASX	MAC-SASX	1		
SA 45s	Miniature Chip Scale Atomic Clock, 3.3 V, 10 MHz, -10 to 70 degC, 9-Pin THD, RoHS, Bulk	UTOAL	MCSM-090-02984-00X	CMP-2000-07612-1	1		
SIT5721AI-KWA33-T-	OSC, 10MHZ, 3.3V,	ווט	SIT5721	SIT5721AI-KWA33-T- 10.000000	1		
10.000000							1
10.000000 SITS356AI-FQA33-IT-	SPPB, DCOCKO, SMT OSC, 10MHZ, 3.3V, 100PPB, DCTCXO	1113	SITSISS	SIT5356AI-FQA33-IT-		l	
	OSC, 10MHZ, 3.3V, 100PPB, DCTCXO, SMT XTAL, 32.768KHZ, 6PF	U13	\$175155	SiT5356AI-FQA33-IT- 10.000000	1		