


Ketra Inc.

Ketra VER003 2.4GHz ZigBee Module

Bill of Materials

Part #: 830-000005-xx

	Title Ketra VER003 2.4GHz ZigBee Module – Bill of Materials		
	Size A	Ketra Part Number 830-000005-xx	Rev A
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Ketra Zigbee Module with Discrete Balun Revised: Monday, January 06, 2014

KET_ZB_MODULE_VER003 Revision: 003

Item	Quantity	Reference	Part	Manufacturer	Part Number	Type	V Rating	I Rating	P Rating	Tolerance	PCB Footprint
1	1	A1	2.4GHz Antenna		PCB ARTWORK	PCB Meander Antenna					
2	5	C1,C14,C16,C20,C25	10n	MURATA	GRM155R71E103KA01D		25V			10%	402
3	1	C2	0.47u	MURATA	GRM155R61A474KE15D		10V			10%	402
4	5	C3,C4,C5,C7,C29	100n	MURATA	GRM155R71C104KA88D		16V			10%	402
5	1	C6	1u	MURATA	GRM155R60J105KE19D		6.3V			10%	402
6	3	C8,C30,C31	2.2u	MURATA	GRM188R61C225KE15D		16V			10%	603
7	2	C11,C12	22p	MURATA	GRM1555C1H220JA01D		50V			5%	402
8	2	C13,C15	8.0p	MURATA	GRM1555C1H8R0DA01D		50V			0.5p	402
9	2	C18,C19	1p	MURATA	GRM1555C1H1R0BA01D		50V			0.1p	402
10	1	C21	1.8p	MURATA	GRM1555C1H1R8CA01D		50V			.25p	402
11	2	C22,C23	0.50p	MURATA	GRM1555C1HR50BA01D		50V			0.1p	402
12	1	C24	18p	MURATA	GRM1555C1H180FA01D		50V			1%	402
13	1	C26	33p	MURATA	GRM1555C1H330JA01D		50V			5%	402
14	1	C27	NI								402
15	1	J1	Ketra_ZB_Mod_Conn	PCB ARTWORK	PCB ARTWORK						Ketra_ZB_Mod_Conn_Cast
16	1	J2	RF Coax SW Conn	MURATA	MM8030-2610	RF Connector Coax 50 Ohm 11GHz	250V				SWGLPE
17	2	L2,L3	2.7nH	MURATA	LQW15AN2N7C00D	Unshielded Ceramic		850mA		0.2nH	402
18	2	L4,L6	5.1nH	MURATA	LQP15MNSN1B02D	Film Type Chip Inductor		140mA		0.1nH	402
19	1	L5	5.1nH	MURATA	LQW15AN5N1C00D	Wound Inductor		600mA		0.2nH	402
20	1	R1	10	YAGEO	RC0402JR-0710RL	Thick Film Resistor			63mW	5%	402
21	1	R2	1	PANASONIC	ERJ-2GEJ1R0X	Thick Film Resistor			63mW	5%	402
22	1	S1	NI	Laird Technologies EMI	NI	BOARD SHIELD FRAME					BMI-S-202-F
23	1	S2	NI	Laird Technologies EMI	NI	BOARD SHIELD COVER					
24	1	U1	EM3585	Silicon Labs	EM3585-RT	RF TXRX ZIGBEE 192KB					QFN48
25	1	Y1	24.000MHz	Epson	FA-128 24.0000MF10Z-W3	12p-CL				10ppm	XTAL_2p0x1p6

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